



Gannett Fleming

Excellence Delivered As Promised

February 14, 2022

File # 55929.005

Ms. Candace Sykora
Bureau of Remediation and Redevelopment
Wisconsin Department of Natural Resources, WCR
1300 West Clairemont Avenue
Eau Claire, WI 54702-4001

Re: **Annual Operations & Maintenance Report**
December 2020 - November 2021
WRR Environmental Services
WDNR BRRTS No. 02-18-000274
WDNR FID No. 618 026 530
EPA ID No. WID 990 829 475

Dear Ms. Sykora:

On behalf of WRR Environmental Services Co. Inc. (WRR), the enclosed *Operations & Maintenance* (O&M) report summarizes remedial and groundwater monitoring activities at its facility in Eau Claire during the period December 2020 through November 2021. This O&M report follows Gannett Fleming, Inc.'s:

- April 2013 *Corrective Action Plan*, which contained a detailed summary of remedial and monitoring activities through March 2013.
- June 2014 *Evaluation of Corrective Measures and Plan of Activities* report, which contained an evaluation and summary of remedial and monitoring activities through March 2014.
- Most recent January 28, 2021, *O&M Report*, which contained a summary of remedial and monitoring activities through November 2020.

Submittal of this annual O&M report is required by WRR's RCRA license. The executive summary describes the work conducted during this reporting period and refers the reader to previous reports for historical details. For brevity, the supporting data (tables, charts, lab reports, etc.) for each section of the report (i.e., operations of the soil vapor extraction and groundwater recovery and treatment systems) have been moved to appendices.

Included with the report is a completed copy of relevant pages from the Wisconsin Department of Natural Resources' (WDNR's) "Remediation Site Operation, Maintenance, Monitoring & Optimization Report" Form 4400-194, and a signed copy of the engineer and hydrogeologist certification form, as required by NR 712.07(1) of the Wis. Adm. Code. An electronic copy of

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Ms. Candace Sykora
Wisconsin Department of Natural Resources
February 14, 2022

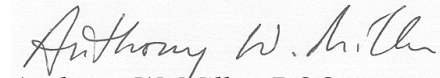
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this cover letter and O&M report have been uploaded to the WDNR portal. A hard copy of both documents will not be shipped to you unless requested.

The next O&M report will be submitted to the WDNR by January 31, 2023, and will include the analytical results of all sampling and remedial activities conducted from December 2021 through November 2022. In the meantime, please call if you have any questions or need additional information.

Sincerely,

GANNETT FLEMING, INC.



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Gannett Fleming

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Prepared for:

WRR ENVIRONMENTAL SERVICES

EAU CLAIRE, WISCONSIN

ANNUAL OPERATIONS & MAINTENANCE REPORT

DECEMBER 2020 – NOVEMBER 2021

EAU CLAIRE, WISCONSIN

WDNR BRRTS No. 02-18-000274

WDNR FID No. 618 026 530

EPA ID No. WID 990 829 475

PROJECT #55929.005

FEBRUARY 2022

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LIST OF ACRONYMS AND ABBREVIATIONS

AI	air injection
CVOC	chlorinated volatile organic compound
DCA	dichloroethane compound (e.g., 1,1-dichloroethane)
DCE	dichloroethylene compounds (e.g., 1,1-dichloroethylene)
DC	direct contact
DHBt	<i>dehalobacter</i> microbes
DHC	<i>dehalococcoides</i> microbes
DNA	deoxyribonucleic acid
DO	dissolved oxygen
DPE	dual-phase extraction
ES	Enforcement Standard (WAC NR 140)
gal/lb VOC	gallons/pound of volatile organic compound removed
GF	Gannett Fleming, Inc.
gpd	gallons per day
gpm	gallons per minute
GW	groundwater
HAP	hazardous air pollutant
hp	horsepower
J	reported value fell below the Limit of Quantitation set by the lab (results qualifier)
lbs	pounds
lb/yr	pounds per year
MEE	methane, ethane, and ethene
MW	monitoring well
NS	no NR 720 RCL standard
µg/ℓ	micrograms per liter
O&M	operation and maintenance
ORP	oxidation reduction potential
PAL	Preventative Action Limit (WAC NR 140)
PCE	tetrachloroethylene
PRC	petroleum-related compounds
RD	reductive dechlorination
RNA	remediation by natural attenuation
RW	recovery well
SVE	soil vapor extraction
TCA	trichloroethane compounds (e.g., 1,1,1-trichloroethane)
TCE	trichloroethylene
TOC	total organic carbon
VOCs	volatile organic compounds
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WRR	WRR Environmental Services Co. Inc.

EXECUTIVE SUMMARY

A summary of the remediation and monitoring work associated with the remediation of soil and groundwater impacted by volatile organic compounds (VOCs) at the subject site during the December 2020 through November 2021 reporting period follows.

- VOCs were removed from the groundwater by the operation of recovery wells RW-6, RW-7, and RW-10 through RW-13 and WRR's production well. Collectively, the seven wells comprise the "groundwater recovery system" that operated during this reporting period. **In total, approximately 10.5 million gallons of water containing approximately 1,505 lbs of VOCs were removed by the recovery wells during this reporting period.**
- WRR's production well (PW-1) operated continuously throughout the year. PW-1 provides water for facility operations and had previously removed VOCs from the deep bedrock aquifer. However, due to the operation of the other recovery wells and the other remedial activities discussed below, less than 0.1 lb of VOCs was removed by PW-1 over the last two years, indicating that it no longer serves as a groundwater remediation well. As such, this will be the last report with data included about the production well's operation.
- VOCs were removed from the soil by dual-phase extraction (DPE) wells RW-10 and RW-11 and by SVE vent wells SVE-4 and SVE-7, which are connected to the same vacuum blower, and SVE-5 and SVE-6, which are connected to their own vacuum blowers. During this reporting period, approximately 1,724 lbs of VOCs were removed by the three SVE systems. Through November 15, 2021, approximately 13,701 lbs of VOCs in the soil have been removed by the three SVE systems. Overall results indicate that the three SVE systems are making progress in decreasing the mass of residual VOCs in source area soils.
- Groundwater samples were collected for VOC analyses from the on-site wells and the wells located in Lowes Creek Park in May, June, and October 2021. With a few minor exceptions, VOC concentrations measured in the groundwater samples collected from on- and off-site wells during this reporting period exhibited a decreasing trend when compared to previous VOC concentrations.
- A 5,500-gallon mixture containing 5,770 lbs of reducing reagents was injected into the groundwater in the northern portion of the facility in November 2021. Between June 2018 and November 2021, a total of 43,315 gallons of mixture containing 40,757 lbs of reducing reagents have been injected into the groundwater in the northern and southeastern portions of the WRR facility. From June 2018 through October 2021, tetrachloroethylene (PCE), trichloroethylene (TCE) concentrations, and/or total VOC minus methane, ethane, and ethene (MEE) concentrations in groundwater samples decreased from 29 to 99.998 percent in W-32, W-34, W-35, and SVE-4, which are located within the areas that have been injected.
- Groundwater samples were collected from eight on-site wells and one off-site well in 2021 for analysis of 1,4-dioxane. Concentrations of 1,4-dioxane above its NR 140 enforcement standard (ES) of 3.0 micrograms per liter ($\mu\text{g}/\ell$) were measured in five of the nine wells. This report includes a discussion of the 1,4-dioxane results and plans for collection of additional samples to define its vertical and horizontal extent in the groundwater.

- An investigation into the release of per- and polyfluoroalkyl substances (PFAS) associated with the use of aqueous film forming foam (AFFF) to suppress fires at the WRR facility in 2007 and 2010 was also conducted in 2021. GF is preparing a report summarizing the results of the PFAS investigation, and that report will be sent separately to the WDNR along with a work plan for additional monitoring. For brevity, additional discussion of the PFAS investigation is not included with this report.

Figure 1 is a location map, and Figure 2 provides an aerial photo of the site. Appendix A contains the relevant pages of the WDNR's "Operation, Maintenance, Monitoring and Optimization Reporting of Soil and Groundwater Remediation Systems" Form 4400-194. A more detailed discussion of soil and groundwater remediation system operations and VOC groundwater sampling results through November 2021 is discussed below or in the appendices included with this report.

1.0 RECOVERY WELL OPERATIONS (DEC 2020 THROUGH NOV 2021)

Groundwater recovery wells RW-2, RW-4, RW-5, RW-8, and RW-9 did not operate during this reporting period. See GF’s June 2014 *Evaluation of Corrective Measures & Plan of Activities Report* for a summary of historical operation of those wells prior to 2013 and GF’s January 2021 *Annual Operation & Maintenance Report – November 2019 through November 2020* for a summary of their operation through November 2020.

With the exceptions noted below, RW-6, RW-10 through RW-13, and WRR’s production well (PW-1) operated continuously with minor downtime for repairs or maintenance. RW-7 only operated for 31 days and then was turned off because of low VOC concentrations. Below is a summary of the volume of water pumped, the average daily flow rate for the days each well operated, and the mass of VOCs removed by each recovery well during this reporting period. Also included is the removal efficiency of each well, defined by the number of gallons of water pumped to remove one pound of VOCs.

Well ID	Volume Pumped (gallons)	Days Operational During Reporting Period	Average Daily Flow Rate (gal/day)	VOC Mass Removed (lbs)	Removal Efficiency (gal/lb VOC)
RW-6	1,105,980	344	3,215	205	5,395
RW-7	359,880	31	11,609	1.5	239,920
RW-10	60,614	365	166	46.9	1,292
RW-11	297,671	341	873	40	7,442
RW-12	839,440	319	2,632	920	912
RW-13	1,323,230	365	3,625	292	4,532
Subtotal	3,986,815	--	--	1,505	--
PW-1	6,512,600	365	17,843	<0.1	--
Total	10,499,415	--	--	1,505	--

Note that a well’s “efficiency” at removing VOCs is inversely proportional to the volume of water needed to remove one pound of VOCs, so a lower gallons per lb value indicates a more efficient recovery well. Figures 3 and 4 show the locations of the recovery wells listed above.

Since October 2014, water pumped from all recovery wells, except RW-11, has been treated by a turbo air stripper before being discharged to a 360,000-gallon aeration reservoir. During this reporting period, the water pumped from RW-11 and the production well was used as process water for the facility before being discharged directly to the aeration reservoir. Water in the aeration reservoir is discharged to an absorption pond located just south of the WRR facility. Figure 4 shows the locations of the turbo stripper building and 360,000-gallon aeration reservoir.

Discharge samples from the aeration reservoir (outfall 002) were collected on a bi-monthly basis, and the concentrations of all compounds were below the limits in WRR's WPDES permit No. WI-0058718-05-0 dated December 7, 2017, which authorizes discharge from the aerated reservoir for the period January 1, 2018, through December 31, 2022. The results of discharge samples are submitted to the WDNR per WRR's WPDES permit and are not included with this report.

As shown in the table above, WRR's production well is no longer removing VOCs due to the various remedial activities that have been conducted on site. However, its operation creates a cone of depression in the mid-depth and deep/bedrock aquifers that limits the migration of VOCs off site in those aquifers, so though it isn't removing VOCs, it nonetheless helps limit their off-site migration in the mid-depth aquifer.

Supplemental data and discussion regarding the operation of each recovery well are included with this report in Appendix B.

2.0 AIR INJECTION AND SOIL VAPOR EXTRACTION SYSTEMS

2.1 Southern, Middle and Northern AI/SVE Systems

The southern, middle, and northern AI/SVE systems installed in 2004-2006 were turned off with the approval of the WDNR on March 4, 2013, and have not operated since then.

2.2 SVE Systems Operations (April through November 2021)

The three SVE systems that operated during this reporting period are the main SVE system comprised of RW-10, RW-11, SVE-4, and SVE-7 and two separate satellite systems comprised of two vacuum blowers connected to vent wells SVE-5 and SVE-6. The three SVE systems operate seasonally during the warm weather months when the average daily ambient air temperature is above freezing. The vacuum blowers for the three SVE systems were restarted on April 2, 2021, after being turned off on November 9, 2020. Except for minor downtime for repairs or maintenance and from October 29 to November 2, 2021, the blowers for each of the three SVE systems operated continuously until November 15, 2021, when the blowers were turned off. Below is a summary of the mass of PCE, VOCs, and Hazardous Air Pollutants (HAPs) removed by each of the three SVE systems during this reporting period and the total cumulative mass of those compounds through November 2021.

SVE System	Mass Removed in 2021 (lbs)			Total Mass Removed through 11/21 (lbs)		
	PCE	HAPs	VOCs	PCE	HAPs	VOCs
Main	341	1,410	1,488	2,281	11,417	12,991
SVE-5	40.1	148	185	82.5	449	657
SVE-6	38.6	50	50.7	40.6	52.3	53
Total	420	1,608	1,724	2,404	11,918	13,701

Based on VOC concentrations measured in each system’s exhaust gas samples, all air emissions were below the NR 406 threshold limits for all VOCs and HAPs during this reporting period. Additional discussion and data regarding the operation of each SVE system, including tables listing VOC concentrations measured in each system’s exhaust gas samples and charts showing the mass of VOCs removed by each system during this reporting period, are included with this report as Appendix C.

3.0 GROUNDWATER SAMPLING (MAY THROUGH OCTOBER 2021)

Groundwater elevations were measured in and groundwater samples collected from wells listed in Table D-1 in Appendix D during this reporting period in May, June, and October 2021. All samples were analyzed for VOCs, and select samples were collected from on-site wells for 1,4-dioxane analyses. Additionally, RNA:

- Field parameters measured in each well included dissolved oxygen (DO), oxidation reduction potential (ORP), pH, temperature, and conductivity.
- Samples were collected from select wells for laboratory analyses of MEE, dissolved iron and manganese, alkalinity, sulfate, nitrate, total organic carbon (TOC), and/or *dehalococcoides* (DHC) and *dehalobacter* (DHBt) microbes.

With few minor exceptions, VOC concentrations continue to decrease in on- and off-site monitoring wells as the result of the various remedial activities discussed above.

Water samples were collected from private off-site wells PW-11 and PW-16 in August 2021. Figure 5 shows the locations of the private wells sampled in 2021. No VOCs were detected in either of the private wells sampled in August 2021. The analytical results of the water samples were submitted to the private well owners and the WDNR in August 2021 and are not included with this report.

Supplemental data and discussion regarding the groundwater monitoring activities are included with this report as Appendix D.

4.0 ADDITIONAL REMEDIAL ACTIVITIES (DEC 2020 THROUGH NOV 2021)

The following additional, non-routine remedial activity was conducted during this reporting period.

4.1 Injection of Reducing Reagents (November 2021)

During the week of November 15, 2021, GF injected 5,000 gallons of a reducing reagent mixture into the groundwater in the northern portion of the site. The mixture included 5,770 lbs of reducing reagents consisting of:

- 3,510 lbs of RNAS Newman Zone 55 Emulsified Vegetable Oil.
- 1,920 lbs of RNAS Neutral Zone, a pH buffer.
- 300 lbs of Regenesis MicroZVI, a micro-scale zero valent iron.
- 40 lbs of RNAS Oxygen Scavenger (OS).

The OS was mixed with water from WRR's production well and allowed to sit for 2 hours to decrease the DO concentration below 2.0 milligram per liter (mg/l) before the other reducing reagents were added. The mixture was injected into 13 borings using a Geoprobe drill rig operated by Stevens Drilling and Environmental of Maple Plain, Minnesota. Figure 6 shows the locations of the November 2021 injection borings (#68 through #80) in the northern portion of the WRR site and shows the locations of borings previously injected with reducing reagents in 2018 and 2019. Between July 2018 and November 2020 reducing reagents were also injected into dual purpose SVE wells SVE-4 through SVE-7. See previous reports for a summary of injection activities in the northern portion of the site through November 2020.

Through November 2021, 43,315 gallons of mixture containing 40,757 lbs of reducing reagents have been injected into groundwater in the northern and southeastern portions of the WRR site under WPDES Permit #WI-0046566-07-0. See GF's January 28, 2020, *2019 Annual Operations & Maintenance Report for November 2018 through October 2019* for a summary of the injection activities conducted in the southeastern portion of the WRR facility in 2019.

No additional non-routine remedial activities were conducted during this reporting period.

5.0 EVALUATION OF VOC TRENDS & REMEDIATION SYSTEMS

The following sections discuss trends in VOC concentrations and removal rates and the effectiveness of the various remediation systems and activities conducted through November 2021.

5.1 Trends in Contaminant Concentrations in Groundwater

Tables prepared by GF and WRR containing the analytical results of groundwater samples collected from monitoring wells during the reporting period and previous results dating back to May 2011 are included with this report as Appendix D. See previous reports for tables with the analytical results of groundwater samples collected before May 2011.

With minor exceptions, the concentrations of the compounds that were measured in on-site and off-site wells at concentrations above their NR 140 ESs have been stable or decreasing due to the remedial activities conducted over the past nine years. Not surprisingly, the most significant decreases in VOC concentrations were measured in on-site wells located closest to one or more of the remedial systems or where injections of reducing reagents have occurred, including:

- Shallow aquifer wells W-5, W-6, W-7, W-34, W-35, TW-1, and RW-2.
- Mid-depth on-site aquifer wells W-1A, W-1D, W-7A, W-31A, and W-31B.

Removing VOCs by the operation of the SVE and groundwater recovery systems since 2015 has reduced VOC concentrations in the WRR production well, screened in the bedrock aquifer, to levels below detection, as shown in Table B-14 in Appendix B. Additionally, the cumulative effect of the various remedial activities conducted on site has significantly reduced VOC concentrations in off-site downgradient wells, including:

- Shallow aquifer well W-18.
- Mid-depth aquifer wells W-17B, W-18B, W-19R, and MW-111A.
- Deep/Bedrock aquifer well MW-115.

See the Master VOC Table in Appendix D for specific VOC concentrations in each well dating back to May 2011.

As discussed in more detail and shown on Figures D-5, D-9, and D-12 in Appendix D, VOCs are not migrating off site in the shallow aquifer. Additionally, the off-site migration of VOCs in the mid-depth aquifer is limited by the collective operation of RW-6, RW-10 through RW-13, and WRR's production well. As a result of those remedial activities:

- Alcohol and ketones were not measured above their NR 140 ESs in wells screened in the mid-depth and deep/bedrock aquifers downgradient of recovery well RW-6, with one exception: methyl isobutyl ketone (MIBK) was detected in deep/bedrock well W-17A at 980 µg/ℓ, above its NR 140 ES of 500 µg/ℓ.

- PRCs were also not measured above their NR 140 ESs in wells screened in the mid-depth and deep/bedrock aquifers downgradient of recovery well RW-6, with the following exceptions: benzene was measured at 17.1 and 10.9 µg/l, above its NR 140 ES of 5 µg/l, in deep aquifer wells W-17A and MW-115, respectively, and toluene was measured at 1,290 µg/l in W-17A, above its NR 140 ES of 800 µg/l.
- The CVOC plume in the mid-depth aquifer has contracted and divided into two plumes: one plume on site and one plume off site as shown on Figure D-7 in Appendix D.

GF believes VOC concentrations in the groundwater will continue to decrease with operation of the SVE and groundwater recovery systems and in-situ degradation of CVOCs by the injection of reducing reagents.

1,4-Dioxane was measured at concentrations ranging from 7.8 µg/l to 180 µg/l in five of the nine wells tested for that compound. See Figure D-15 and Table D-6 in Appendix D for 1,4-dioxane sample locations and concentrations. Additional sampling is proposed to define the estimated vertical and horizontal extent of 1,4-dioxane in the groundwater.

5.2 Recovery Wells

The following table summarizes the mass of VOCs removed and the removal efficiency rate as measured by the volume of groundwater pumped to remove one pound of VOC in recovery well over the last two years:

Well ID	Mass of VOC Removed, Removal Efficiency Rates & Period			
	VOC Mass Removed (lbs)	Removal Efficiency Rate (gal/lb VOC)	VOC Mass Removed (lbs)	Removal Efficiency Rate (gal/lb VOC)
	Nov 2019 – Nov 2020		Dec 2020 – Nov 2021	
RW-6	52	11,512	205	5,395
RW-7	12.7	196,367	1.5	239,920
RW-10	265	1,009	46.9	1,292
RW-11	85	4,785	40	7,442
RW-12	923	1,151	920	912
RW-13	369	1,853	292	4,532
Production Well	0.1	--	<0.1	--
Total	1,313	--	1,505	--

As shown in the table above, WRR’s production well removed less than one tenth of a pound of VOCs over the last two years. As such, the production well is no longer functioning as a groundwater recovery well for removing VOCs from the ground, though its operation does create a cone of depression in the mid-depth and lower bedrock aquifers that helps limit the off-site migration of VOCs in the mid-depth aquifer. **Going forward, the production well will not be**

included in future discussion of the remediation of VOCs on site. However, samples will be collected from the production well as part of the spring and fall groundwater sampling events to monitor VOC concentrations in case they change, as outlined in Appendix B.

RW-7 only operated for the month of December 2020 during this reporting period, whereas the other recovery wells operated more than 87 percent of the reporting period. As shown in the imbedded table above, RW-7 is not efficient at removing VOCs from the groundwater. The relatively high volume of water containing relatively low VOC concentrations removed by RW-7 when it was operating decreased the efficiency of turbo air stripper, so RW-7 was turned off on December 31, 2020. **Due to the low efficiency of RW-7 at removing VOCs from the groundwater, GF and WRR recommend keeping it off for the foreseeable future.**

The VOC removal efficiency of RW-6 and RW-10 through RW-13 are within the reasonable range for a groundwater remediation system, so they will be kept operating during the next reporting period and, if possible, have their flow rates increased to optimize removal of VOCs from the groundwater. Charts showing total VOC concentrations measured in and mass removed by RW-6, RW-7, and RW-10 through RW-13 are included in Appendix B-2.

5.3 SVE Systems

As summarized above in Section 2.2 and in more detail in Appendix B, the three SVE systems removed a significant mass of PCE (420 lbs) and VOCs (1,724 lbs) during this reporting period. The vacuum blowers for the three SVE systems were turned off for the winter on November 15, 2021, but will be restarted in 2022 after average daily ambient air temperatures are above freezing. Overall results indicate that the three SVE systems are making progress in decreasing the mass of residual PCE, HAPs, and total VOCs in source area soils.

5.4 In Situ Reductive Dechlorination Wells

Reducing reagents were injected into the groundwater in the northern portion of the facility during this reporting period. As discussed in more detail in Appendix D, CVOC concentrations in the groundwater in wells within the areas where reducing reagents have been injected have decreased significantly. GF plans to collect groundwater samples from wells for DNA and RNA analyses in the spring of 2022 to evaluate if and where additional injections are warranted to maintain or increase the rate of biodegradation of CVOCs in the groundwater.

6.0 FUTURE ACTIVITIES AND SCHEDULES

6.1 Monitoring and Remedial Activities (Dec 2021 through Nov 2022)

The following activities are scheduled during the next reporting period – December 2021 through November 2022:

- Continue to operate groundwater recovery wells RW-6 and RW-10 through RW-13. Samples will be collected from each of the operating recovery wells to document the estimated mass of VOCs being removed by each well. The pumping rates of the recovery wells will be monitored by WRR, and any repairs or other maintenance activities will be conducted, as necessary, to optimize their performance.
- The vacuum blowers connected to SVE-5 and SVE-6 and the main SVE system will be restarted in the spring, after average ambient air temperature rises above freezing. Exhaust gas samples will continue to be collected monthly from each SVE system to monitor the emissions of PCE, HAPs, and VOCs.
- The existing three AI/SVE systems and recovery wells RW-2, RW-4, RW-5, RW-7, RW-8, and RW-9 will remain off.
- Groundwater samples will be collected for VOC analyses in the spring and fall of 2022 from the on- and off-site wells listed in Table D-1. Water samples will also be collected from private wells PW-11 and PW-16 in the spring of 2022.
- Groundwater samples will also be collected from wells W-32 through W-35 and SVE-4 through SVE-7, as necessary, to monitor the progress of reductive dechlorination occurring in areas that were injected with reducing reagents in 2018 through 2021. Those samples will be analyzed for RNA parameters and/or the microbes that facilitate reductive dechlorination of CVOCs.
- Groundwater samples will be collected from additional on- and off-site wells in the spring for 1,4-dioxane analysis. If necessary, additional samples will be collected in the fall to define the vertical and horizontal extent of 1,4-dioxane in the groundwater.
- Additional reducing reagents will be injected into the groundwater in the northern and southeastern portions of the facility, if and where necessary, to maintain anaerobic conditions conducive to reductive dechlorination.
- Bi-monthly samples will be collected from Outfall 002 (aerated reservoir discharge) as required by the WPDES Permit and reported to the WDNR.

- With the exception of the bi-monthly samples collected from Outfall 002 referenced above, the analytical results of all other samples collected during the next reporting period will be included in the next O&M report.
- The next O&M report will summarize monitoring and remedial activities through November 2022 and will be submitted to the WDNR by January 31, 2023.

6.2 Remedial Goals & Activities Required to Achieve Site Closure

6.2.1 Remedial Goals

The following conditions taken from GF's April 2013 *Corrective Action Plan* were set for the remedial goals necessary to achieve site closure:

- All new sources of VOCs have been defined by supplemental site investigation activities.
- No new releases have occurred that would serve as continuing sources of contaminants to groundwater.
- VOC concentrations in the soil have been reduced to concentrations below direct contact, vapor inhalation, and soil to groundwater protection screening levels by remedial efforts where practical and technically feasible.
- Areas where elevated VOCs remain in soil can be addressed by institutional or engineered controls will be placed on WDNR's database.
- VOC concentrations in groundwater have been reduced to concentrations below NR 140 ES in all on-site wells or reduced to asymptotically low concentrations indicating that remediation has been completed to the extent practical.
- Groundwater in on- and off-site areas with VOC concentrations greater than NR 140 ESs can be included on WDNR's database.

6.2.2 Ongoing Remedial Activities

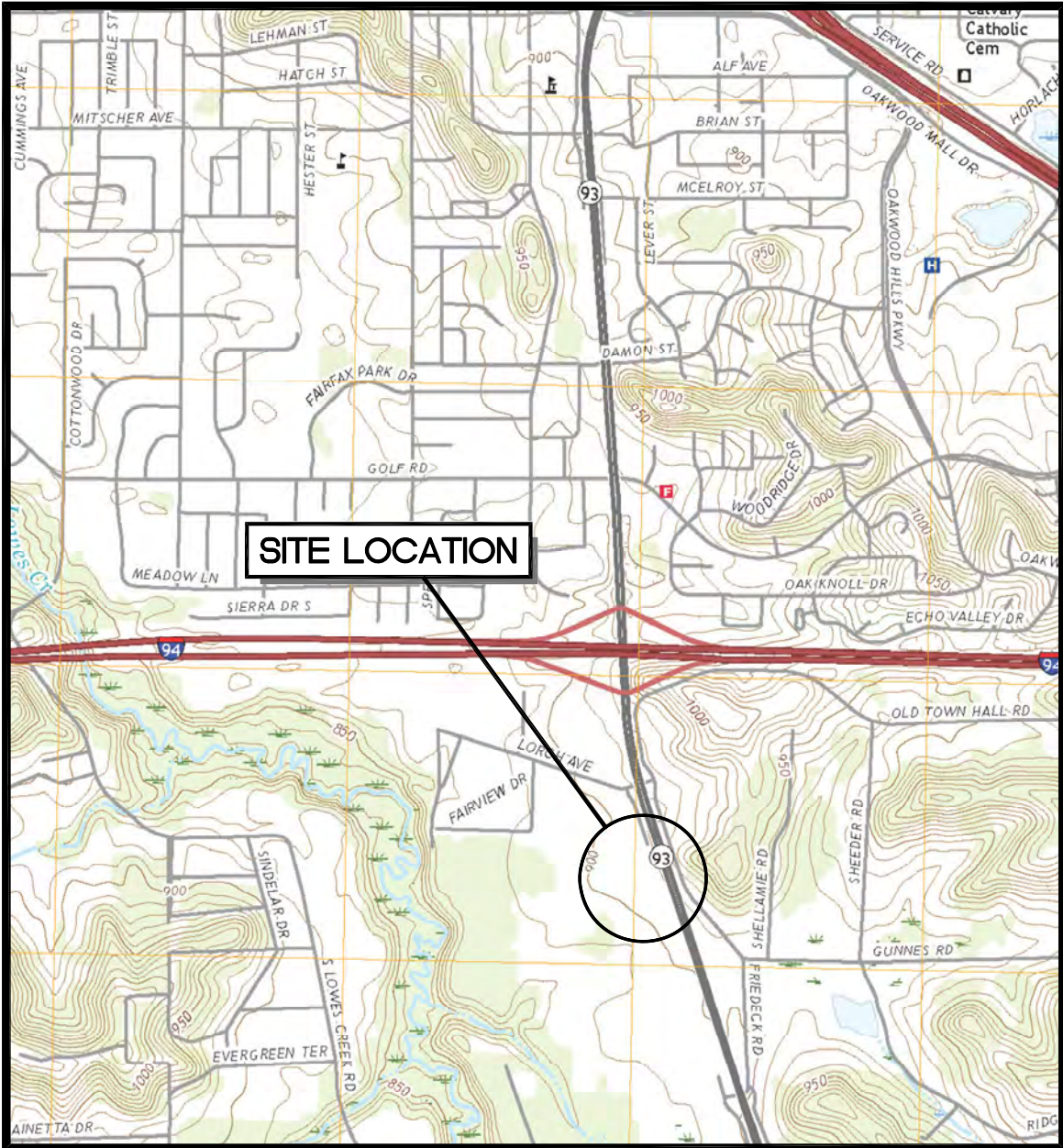
The following activities will need to be conducted until VOC concentrations in the soil and groundwater meet the remedial goals listed above and the site can achieve regulatory closure:

- All remediation systems will need to be maintained and operated until they are no longer needed to reduce VOC concentrations in the soil and/or groundwater.
- Groundwater monitoring of on- and off-site wells will continue on a semi-annual basis until VOC concentrations in all on-site wells have been reduced to levels below the NR 140 ES or to asymptotically low levels, after which point the remediation systems can be turned off. Wells that will be sampled as part of the groundwater monitoring program are listed on Table D-1 of this report.
- All remediation systems, including WRR's aeration reservoir, will be sampled according to regulatory requirements. Sample results will be reported to the WDNR as either part of the WPDES discharge monitoring report or the annual O&M report.

- Post-remediation soil sampling will occur after active remediation is complete. Confirmation samples will be collected in areas where elevated VOCs were measured in pre-remediation soil samples.
- Post-remediation monitoring of VOC concentrations in on- and off-site wells will continue for eight quarters after the remediation systems have been turned off.
- Annual sampling of private wells PW-11 and PW-16 will continue for up to ten years after the remediation systems have been turned off or until the WDNR grants approval to discontinue sampling those wells.
- Areas with VOC concentrations above regulatory standards in on- and off-site soil and groundwater will be placed on the WDNR's database.
- Off-site property owners will be notified of any contamination remaining above regulatory standards in the soil or groundwater on their properties.
- Institutional controls will be placed on the WRR property indicating that it cannot be used for non-industrial purposes.
- Any engineered barriers (i.e., buildings or pavement, etc.) used as a condition of closure will have maintenance plans approved by the WDNR that will be enacted/enforced by WRR and subsequent property owners as part of their continuing obligations.
- Following conditional closure by the WDNR, all monitoring wells will be filled and sealed/abandoned and all remediation systems dismantled. Documentation of well abandonment and dismantling of the remediation systems will be submitted to the WDNR as the final step in the closure process.

6.2.3 Schedule

Based on the remedial activities conducted through November 2021, documented improvement in groundwater quality, and trends in VOC concentrations measured in dissolved-phase and SVE exhaust gas samples, GF believes the remediation systems can be turned off in the fourth quarter (Q4) of 2024. Following that timeline, post-remediation soil sampling would occur in Q2 of 2025. Post-remediation groundwater sampling would begin in Q1 of 2025 for eight quarters through Q4 of 2026, and the closure request would be submitted to the WDNR in June 2027. This schedule assumes that all remediation systems necessary to reduce VOC concentrations in the soil and groundwater are operating from October through December 2024 and that any rebound in VOC concentrations after the remediation systems are turned off (e.g., due to back diffusion of residual VOCs from a silt and/or clay lens) is relatively limited in degree and extent.



SCALE: 1:24,000

7.5 MIN TOPOGRAPHIC MAP
EAU CLAIRE EAST, WISCONSIN
2018



LOCATION MAP

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN



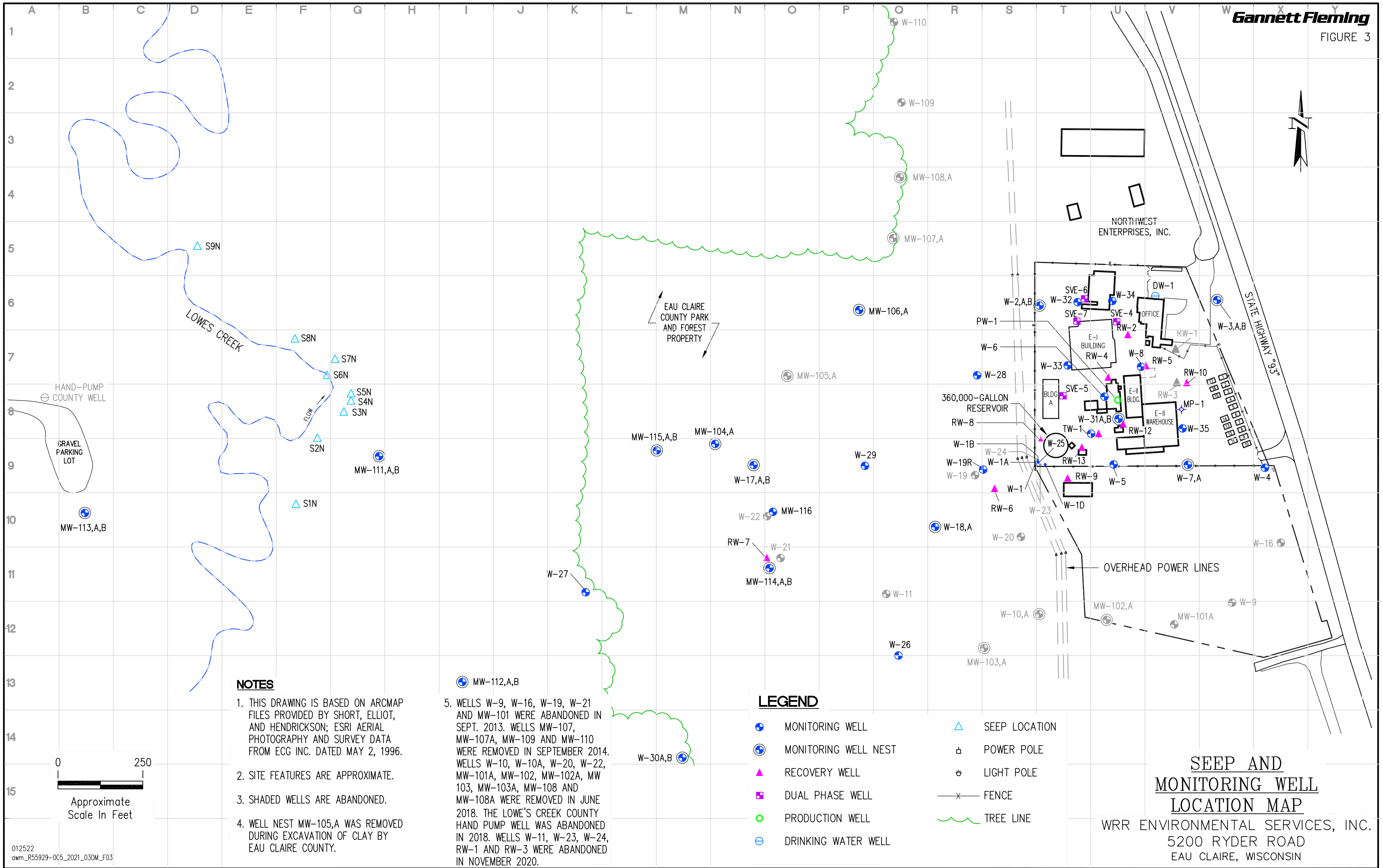
APPROX. SCALE: 1 INCH = 330 FEET

GOOGLE EARTH IMAGERY (08/21)



AERIAL PHOTO
OF SITE

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN



NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. SITE FEATURES ARE APPROXIMATE.
3. SHADED WELLS ARE ABANDONED.
4. WELL NEST MW-105,A WAS REMOVED DURING EXCAVATION OF CLAY BY EAU CLAIRE COUNTY.

MW-112,A,B

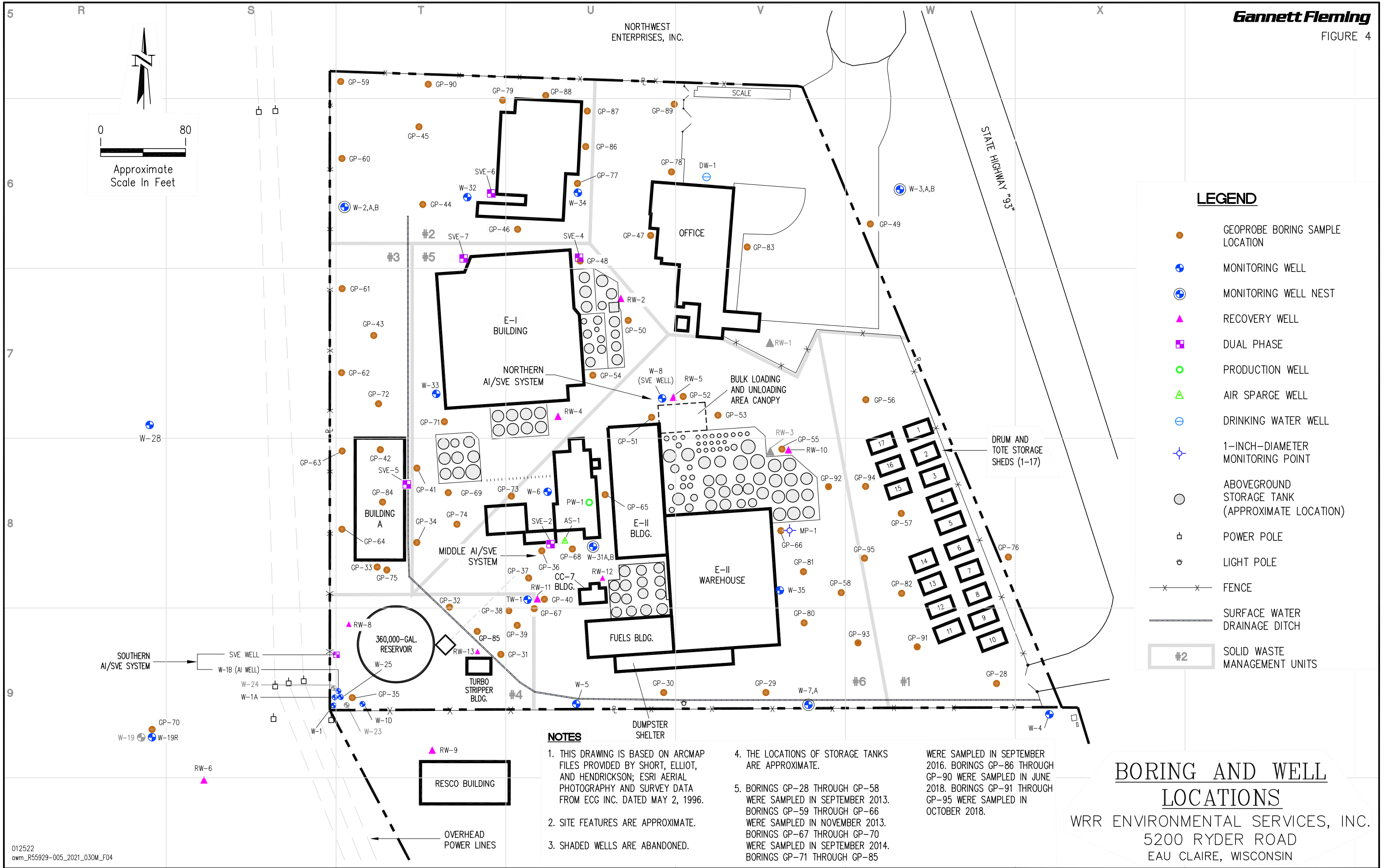
5. WELLS W-9, W-16, W-19, W-21 AND MW-101 WERE ABANDONED IN SEPT. 2013. WELLS MW-107, MW-107A, MW-109 AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS W-10, W-10A, W-20, W-22, MW-101A, MW-102, MW-102A, MW 103, MW-103A, MW-108 AND MW-108A WERE REMOVED IN JUNE 2018. THE LOWE'S CREEK COUNTY HAND PUMP WELL WAS ABANDONED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.

LEGEND

- ⊕ MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- DUAL PHASE WELL
- PRODUCTION WELL
- ⊖ DRINKING WATER WELL
- △ SEEP LOCATION
- ⊔ POWER POLE
- ⊙ LIGHT POLE
- x— FENCE
- ~ TREE LINE

SEEP AND MONITORING WELL LOCATION MAP

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN



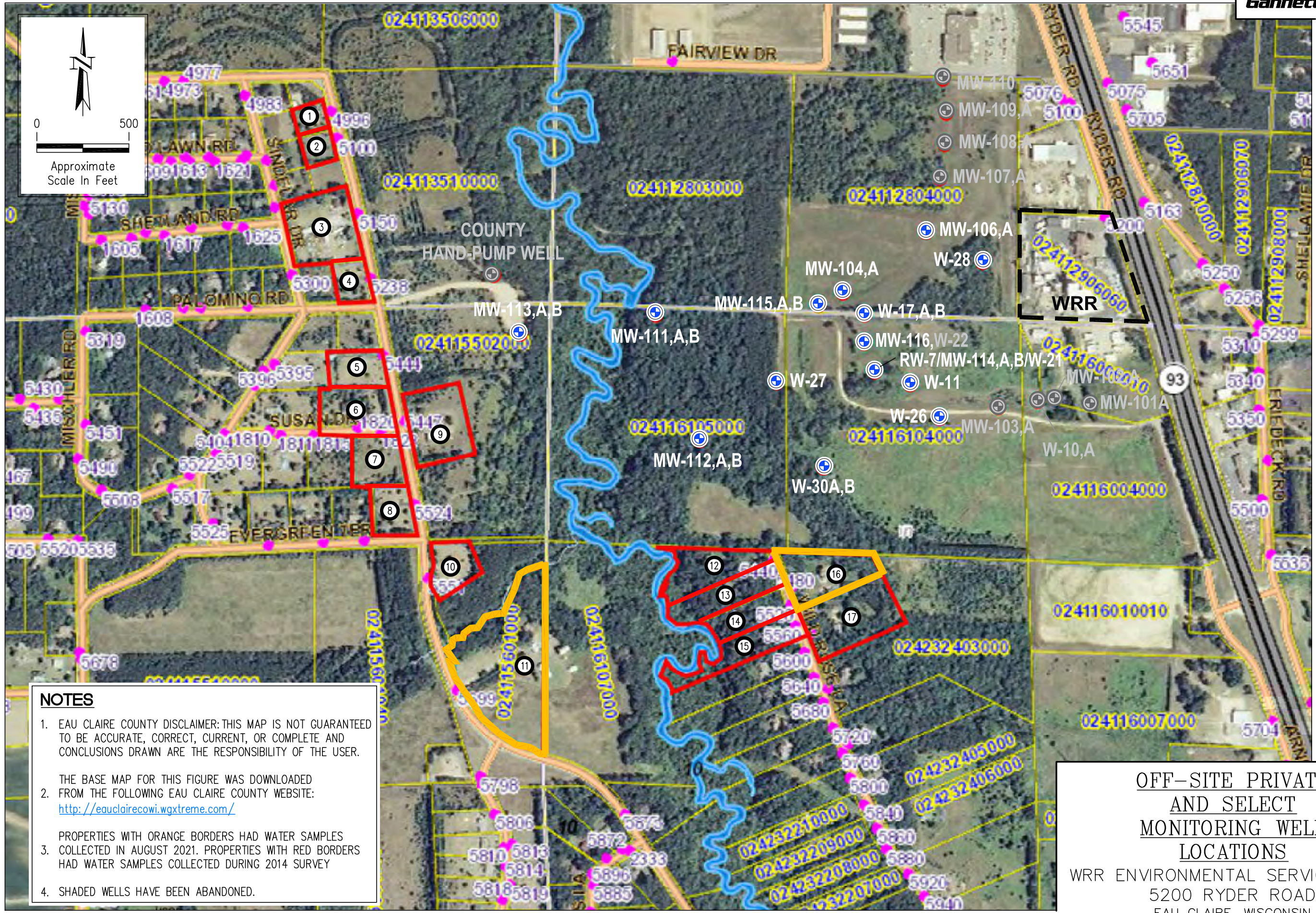
0 80
Approximate Scale In Feet

- LEGEND**
- GEOPROBE BORING SAMPLE LOCATION
 - ⊕ MONITORING WELL
 - ⊕ MONITORING WELL NEST
 - ▲ RECOVERY WELL
 - DUAL PHASE
 - PRODUCTION WELL
 - ▲ AIR SPARGE WELL
 - ⊕ DRINKING WATER WELL
 - ⊕ 1-INCH-DIAMETER MONITORING POINT
 - ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
 - POWER POLE
 - ⊕ LIGHT POLE
 - FENCE
 - SURFACE WATER DRAINAGE DITCH
 - #2 SOLID WASTE MANAGEMENT UNITS

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. SITE FEATURES ARE APPROXIMATE.
3. SHADED WELLS ARE ABANDONED.
4. THE LOCATIONS OF STORAGE TANKS ARE APPROXIMATE.
5. BORINGS GP-28 THROUGH GP-58 WERE SAMPLED IN SEPTEMBER 2013. BORINGS GP-59 THROUGH GP-66 WERE SAMPLED IN NOVEMBER 2013. BORINGS GP-67 THROUGH GP-70 WERE SAMPLED IN SEPTEMBER 2014. BORINGS GP-71 THROUGH GP-85 WERE SAMPLED IN SEPTEMBER 2016. BORINGS GP-86 THROUGH GP-90 WERE SAMPLED IN JUNE 2018. BORINGS GP-91 THROUGH GP-95 WERE SAMPLED IN OCTOBER 2018.

BORING AND WELL LOCATIONS
 WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN



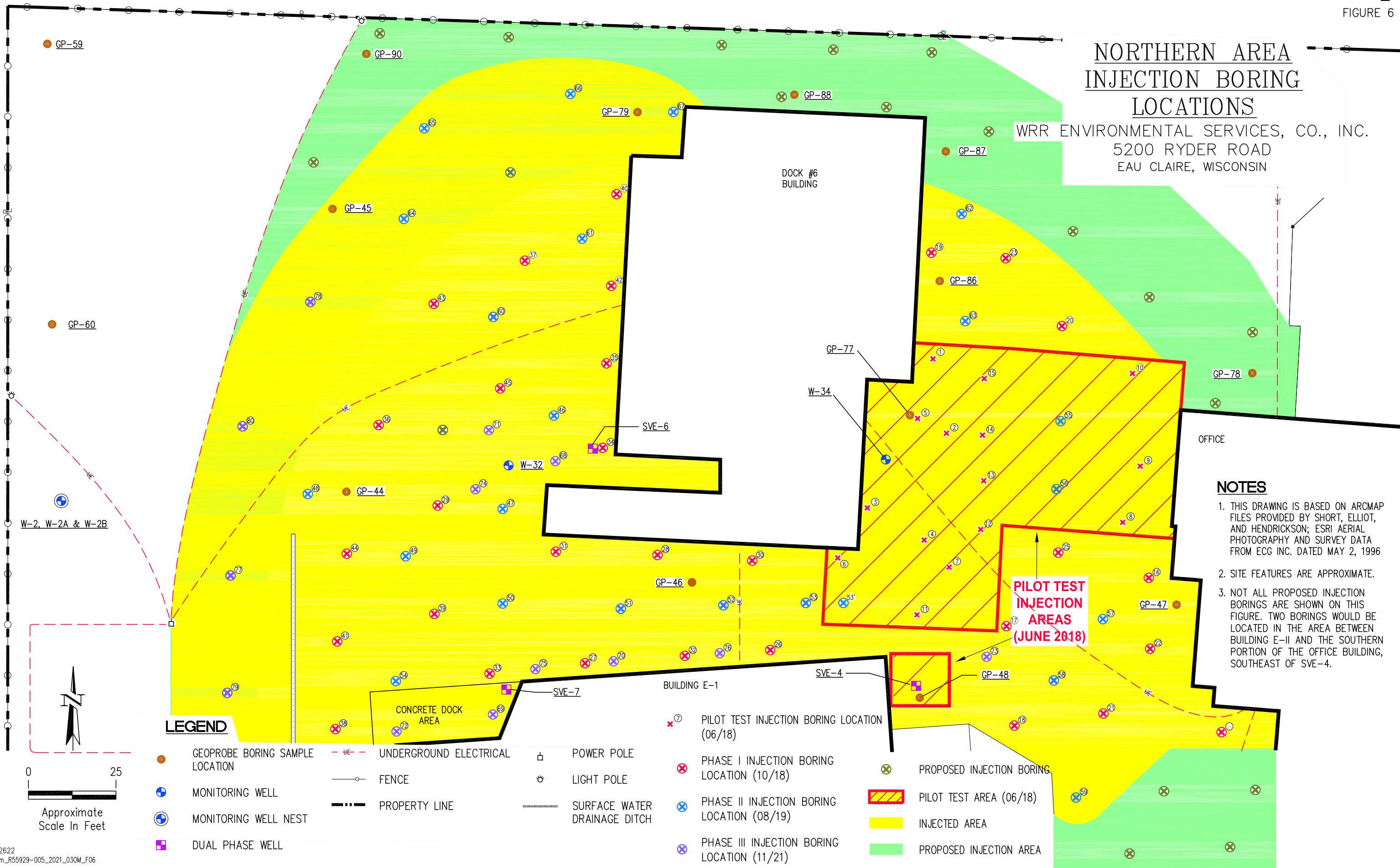
NOTES

1. EAU CLAIRE COUNTY DISCLAIMER: THIS MAP IS NOT GUARANTEED TO BE ACCURATE, CORRECT, CURRENT, OR COMPLETE AND CONCLUSIONS DRAWN ARE THE RESPONSIBILITY OF THE USER.
2. THE BASE MAP FOR THIS FIGURE WAS DOWNLOADED FROM THE FOLLOWING EAU CLAIRE COUNTY WEBSITE: <http://eauclairecowi.wgxtreme.com/>
3. PROPERTIES WITH ORANGE BORDERS HAD WATER SAMPLES COLLECTED IN AUGUST 2021. PROPERTIES WITH RED BORDERS HAD WATER SAMPLES COLLECTED DURING 2014 SURVEY
4. SHADED WELLS HAVE BEEN ABANDONED.

OFF-SITE PRIVATE AND SELECT MONITORING WELL LOCATIONS
 WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

NORTHERN AREA INJECTION BORING LOCATIONS

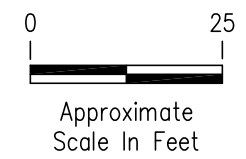
WRR ENVIRONMENTAL SERVICES, CO., INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN



- NOTES**
1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996
 2. SITE FEATURES ARE APPROXIMATE.
 3. NOT ALL PROPOSED INJECTION BORINGS ARE SHOWN ON THIS FIGURE. TWO BORINGS WOULD BE LOCATED IN THE AREA BETWEEN BUILDING E-II AND THE SOUTHERN PORTION OF THE OFFICE BUILDING, SOUTHEAST OF SVE-4.

LEGEND

- | | | | | | |
|---|---------------------------------|-------|------------------------|---|------------------------------|
| ● | GEOPROBE BORING SAMPLE LOCATION | - - - | UNDERGROUND ELECTRICAL | ⊠ | POWER POLE |
| ⊕ | MONITORING WELL | —○— | FENCE | ⊕ | LIGHT POLE |
| ⊕ | MONITORING WELL NEST | —●— | PROPERTY LINE | — | SURFACE WATER DRAINAGE DITCH |
| ⊕ | DUAL PHASE WELL | | | ⊗ | PROPOSED INJECTION BORING |
| | | | | ⊗ | PILOT TEST AREA (06/18) |
| | | | | ⊗ | INJECTED AREA |
| | | | | ⊗ | PROPOSED INJECTION AREA |



APPENDIX A

RELEVANT PAGES OF THE WDNR'S "REMEDIATION SITE OPERATION,
MAINTENANCE, MONITORING & OPTIMIZATION REPORT" FORM 4400-194

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM:

Completion of the applicable portions of this form is required under Wis. Admin. Code § NR 724.13(3). Failure to submit this form as required is a violation of that rule section and is subject to the penalties in Wis. Stats. § 292.99. This form must be submitted every six months for remediation projects that report operation and maintenance progress, in accordance with Wis. Admin. Code §. NR 724.13(3). A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Submittal of this form is not a substitute for reporting required by department programs such as Waste Water or Air Management.

Notes:

1. Long-term monitoring results submitted in accordance with Wis. Admin. Code § NR 724.17(3) are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with that section of code.
2. Responsible parties should check with the department Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent state-lead response.
3. Responsible parties should check with the department Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and should obtain prior written approval for any omissions or changes.
4. Responsible parties are required to report separately on a semi-annual basis under Wis. Admin. Code § NR 700.11(1). Reporting under that provision is through an internet-based form. More information can be found at: <http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>.
5. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by Remediation and Redevelopment Program. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records Law (Wis. Stats. §§ 19.31–19.39).

Section GI - General Site Information

A. General Information

1. Site name

WRR Environmental Services Co. Inc.

2. Reporting period from: 12/01/2020 To: 11/30/2021 Days in period: 365

3. Regulatory agency (enter DNR, DATCP and/or other) 4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
 DNR, DSPS, EPA, DOT, ATF, OSHA, DATCP 02-18-000274

5. Site location

Region	County	Address				
West Central Region	Eau Claire	5200 Ryder Road, Eau Claire, WI Municipality name City				
Municipality name <input type="radio"/> City <input type="radio"/> Town <input checked="" type="radio"/> Village		Township	Range <input type="radio"/> E	Section	¼	¼
Washington		26 N	9 <input checked="" type="radio"/> W	3	SW	SE

6. Responsible party

Name
 James L. Hager - CEO WRR Environmental

Mailing address
 5200 Ryder Road, Eau Claire, WI

Phone number
 (715) 834-9624

7. Consultant

Select if the following information has changed since the last submittal

Company name
 Gannett Fleming, Inc.

Mailing address	Phone number
8040 Excelsior Drive - Madison, WI	(608) 327-5050

8. Contaminants

Alcohols, ketones, chlorinated- and petroleum-related compounds, PFAS

9. Soil types (USCS or USDA)

Surficial soil is primarily SM and SP with some underlying ML-CL layers

10. Hydraulic conductivity(cm/sec): 0.000264 to 0.0006096	11. Average linear velocity of groundwater (ft/yr) 12.6 to 88.4
--	--

Site name: WRR Environmental Services Co. Inc.

Reporting period from: 12/01/2020 To: 11/30/2021

Days in period: 365

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

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12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region

County

Municipality name City Town Village

Township

Range E

Section

¼

¼ ¼

N

W

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).
- Biopiles (submit a completed Section ES-1).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Soil natural attenuation (submit a completed Section IS-2).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Other groundwater remediation method (submit a completed Section GW-4).
- Groundwater natural attenuation (submit a completed Section GW-3).
- In situ air sparging (submit a completed Section GW-2).
- Free product recovery (submit a completed Section GW-1).
- Groundwater extraction (submit a completed Section GW-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No
If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.
See answer to #5 below

2. Are modifications to the system warranted to improve effectiveness Yes No
If yes, explain:
See answer to #5 below

3. Is natural attenuation an effective low cost option at this time? Yes No
4. Is closure sampling warranted at this time? Yes No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No
If yes, explain:
Shutdown of recovery wells that are removing negligible mass of VOCs when appropriate. Changing or cleaning pumps and redevelopment of recovery wells, as necessary.

Site name: WRR Environmental Services Co. Inc.
 Reporting period from: 12/01/2020 To: 11/30/2021
 Days in period: 365

D. Economic and Cost Data to Date

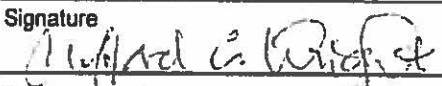
1. Total investigation cost: _____
2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____
3. Total costs during the previous reporting period: _____
4. Total costs during this reporting period: _____
5. Total anticipated costs for the next reporting period: _____
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No
 If yes, explain: _____
7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

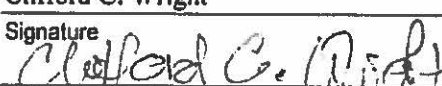
Registered Professional Engineers:

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
Signature 	Date 2-11-2022

Hydrogeologists:

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 of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

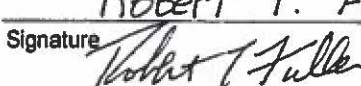
Print name Clifford C. Wright	Title Project Geologist
Signature 	Date 2-11-2022

Scientists:

I hereby certify that I am a scientist as that term is defined in s. NR 712.03(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 Anthony W. Miller	Title Sr. Environmental Scientist
Signature 	Date 2-14-2022

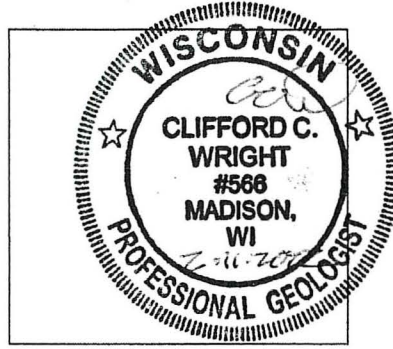
Other Persons:

Print name Robert T. Fuller	Title Executive V.P. / CFO
Signature 	Date 2-14-2022

Site name: WRR Environmental Services Co. Inc.
Reporting period from: 12/01/2020 To: 11/30/2021
Days in period: 365

**Remediation Site Operation, Maintenance,
Monitoring & Optimization Report**
Form 4400-194 (R 06/20) Page 4 of 29

Professional Seal(s), if applicable:



Site name: WRR Environmental Services Co. Inc.

Reporting period from: 12/01/2020 To: 11/30/2021

Days in period: 365

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

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Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: 12 and the number in use during period: 6

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain: 365 [Note the the number of groundwater extraction wells in use during the period of 6 as listed above does not include PW-1. Likewise, the quantity of groundwater extracted, etc. below does not include PW-1.]

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
100

4. Quantity of groundwater extracted during this time period: 3,986,815 gallons

5. Average groundwater extraction rate: 7.6 gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds: 1,505 lbs

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? Yes No
If yes, explain:

2. Quantity of free product extracted during this time period (enter none if none): _____ gallons

3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? Yes No
If no, explain:
Some portion of off-site contaminant plume is likely not being captured.

2. If free product is present, is the free product fully contained in capture zone? Yes No
If no, explain:

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

a. Contaminant: Vinyl Chloride

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99.9 %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: 480 µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: 348 µg/L

Site name: WRR Environmental Services Co. Inc.

Reporting period from: 12/01/2020 To: 11/30/2021

Days in period: 365

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

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- e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - Graph of contaminant concentrations versus time for each extraction well in use during the period.
 - Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Site name: WRR Environmental Services Co. Inc.

Reporting period from: 12/01/2020 To: 11/30/2021

Days in period: 365

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

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Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

a. Contaminant: Vinyl chloride and other CVOCs

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99.9 %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: 480 µg/L

2. Aquifer parameters:

a. Hydraulic conductivity: 0.000264 - 0.0006096 cm/sec

b. Groundwater average linear velocity: 50.5 ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? Yes No

4. Based on water chemistry results, is the plume: Expanding Stabalized Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? Yes No

If yes, explain:

6. Biodegradation parameters:

a. Upgradient (or other site specific background) DO level: 6,400 µg/L

b. DO levels in the part of the plume that is most heavily contaminated 3,300 µg/L

7. Is site closure a viable option within 12 months from the date of this form? Yes No

8. Are there any modifications that can improve cost effectiveness? Yes No

If yes, explain:

Additional injections of reagents in 2022.

9. Have groundwater table fluctuations changed the contaminant level trends over time? Yes No

If yes, explain:

As expected, fluctuations in water table elevation affect contaminant concentrations.

10. Has the direction of groundwater flow changed during the reporting period? Yes No

If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.

Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.

- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

Site name: WRR Environmental Services Co. Inc.

Reporting period from: 12/01/2020 To: 11/30/2021

Days in period: 365

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 06/20)

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Section GW-4, Other Groundwater Remediation Methods

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

a. Contaminant: Vinyl chloride

b. Percent reduction necessary: 99.9 %

c. Maximum contaminant concentration level in any monitoring well: 480 µg/L

2. Is the size of the plume: Increasing Stabalized Decreasing ?

3. Describe the method used to remediate groundwater at the site:

Injection of reducing reagents and pH stabilizers into areas where elevated concentrations of chlorinated VOCs are present. Reducing reagents include emulsified vegetable oil and an oxygen scavenger to drive down the dissolved oxygen concentration and make the aquifer anaerobic.

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 6

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
223

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
61%. Systems operated seasonally or winter from 11/9/20 to 04/02/21 and then again on 11/15/21.

4. Average depth to groundwater: 10 gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: _____

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: 7.7 pounds per day

2. Average contaminant removal rate per well or venting point: 1.3 pounds per day

3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:

a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:

i. Oxygen levels in extracted air: _____ percent

ii. Methane levels in extracted air (ppmv) If over 10 ppmv, explain: _____

iii. If methane is not present above 10 ppmv and if oxygen is greater than 20 percent in extracted air, you should either:

- o Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
- o Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.

b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.

c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

APPENDIX B

SUPPORTING DATA FOR EVALUATING GROUNDWATER RECOVERY WELLS

APPENDIX B

SUPPORTING DATA FOR EVALUATING GROUNDWATER RECOVERY WELLS

APPENDIX B-1

**TABLES WITH VOC CONCENTRATIONS, PUMPING VOLUMES,
AND MASS OF VOCS REMOVED**

<u>No.</u>	<u>Description</u>
B-1	Summary of Detected Compounds in RW-6 (October 2013 – November 2021)
B-2	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-6
B-3	Summary of Detected Compounds in RW-7 (August 2012 – December 2020)
B-4	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-7
B-5	Summary of Detected Compounds in RW-10 (December 2014 – November 2021)
B-6	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-10
B-7	Summary of Detected Compounds in RW-11 (December 2014 – November 2021)
B-8	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-11
B-9	Summary of Detected Compounds in RW-12 (August 2017 – November 2021)
B-10	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-12
B-11	Summary of Detected Compounds in RW-13 (August 2017 – November 2021)
B-12	Estimated Volume of Water Pumped & Mass of VOCs Removed by RW-13
B-13	Summary of Detected Compounds in WRR Production Well (May 2011 – November 2021)
B-14	Estimated Volume of Water Pumped & Mass of VOCs Removed by Production Well

APPENDIX B-2

**CHARTS SHOWING TOTAL VOC CONCENTRATIONS AND MASS
REMOVED BY GROUNDWATER RECOVERY WELLS**

APPENDIX B-3

**LABORATORY REPORTS FOR WATER SAMPLES COLLECTED FROM
RECOVERY WELLS – DECEMBER 2020 THROUGH NOVEMBER 2021**

APPENDIX B – SUPPORTING DATA FOR EVALUATING GROUNDWATER RECOVERY WELLS

The following section summarizes the operational history and mass of VOCs removed by RW-6, RW-7, RW-10 through RW-13, and WRR’s production well through November 30, 2021.

B-1 OPERATIONAL HISTORY OF RECOVERY WELLS (DEC 2020 THROUGH NOV 2021)

With the exceptions noted below, RW-6, RW-10 through RW-13, and WRR’s production well (PW-1) operated continuously with minor downtime for repairs or maintenance. Figure 3 of the main report shows the recovery well locations. RW-7 only operated for 31 days and then was turned off because of low VOC concentrations, as discussed below.

Well ID	Operational History – December 2020 through November 2021
RW-6	Off 21 days from 12/1/20 to 12/14/20, 7/23/21 to 8/4/21 & 8/25/22 to 9/2/21
RW-7	Only operated 31 days during month of December 2020
RW-10	Operated continuously except for minor downtime for repairs
RW-11	Off 24 days from 10/4/21 to 10/28/21
RW-12	Off 46 days from 7/23/21 to 9/1/21
RW-13	Operated continuously except for minor downtime for repairs
PW-1	Operated continuously

Since October 2014, water pumped from all recovery wells, except RW-11, is treated by a turbo air stripper before being discharged to a 360,000-gallon aeration reservoir. During this reporting period, the water pumped from RW-11 and the production well was used as process water for the facility before being discharged directly to the aeration reservoir. Water in the aeration reservoir is discharged to an absorption pond located just south of the WRR facility. Figure 4 of the O&M report shows the locations of the turbo stripper building and 360,000-gallon aeration reservoir.

Discharge samples from the aerated reservoir (outfall 002) were collected on a bi-monthly basis, and the concentrations of all compounds were below the limits in WRR’s WPDES permit No. WI-0058718-05-0 dated December 7, 2017, which authorizes discharge from the aerated reservoir for the period January 1, 2018, through December 31, 2022. The results of discharge samples are submitted to the WDNR per WRR’s WPDES permit and are not included with this report.

Below is a summary of the volume of water pumped, the average daily flow rate for the days the well operated, and the VOC mass removed for each of the recovery wells during this reporting period.

Well ID	Volume Pumped (gallons)	Days Operational During Reporting Period	Average Daily Flow Rate (gal/day)	VOC Mass Removed (lbs)
RW-6	1,105,980	344	3,215	205
RW-7	359,880	31	11,609	1.5
RW-10	60,614	365	166	46.9
RW-11	297,671	341	873	40
RW-12	839,440	319	2,632	920
RW-13	1,323,230	365	3,625	292
Subtotal	3,986,815	--	--	1,505
PW-1	6,512,600	365	17,843	<0.1
Total	10,499,415	--	--	1,505

The following table summarizes the mass of VOCs removed and the removal efficiency rate as measured by the volume of groundwater pumped to remove one pound of VOC in recovery well over the last two years:

Well ID	Mass of VOC Removed, Removal Efficiency Rates & Period			
	VOC Mass Removed (lbs)	Removal Efficiency Rate (gal/lb VOC)	VOC Mass Removed (lbs)	Removal Efficiency Rate (gal/lb VOC)
	Nov 2019 – Nov 2020		Dec 2020 – Nov 2021	
RW-6	52	11,512	205	5,395
RW-7	12.7	196,367	1.5	239,920
RW-10	265	1,009	46.9	1,292
RW-11	85	4,785	40	7,442
RW-12	923	1,151	920	912
RW-13	369	1,853	292	4,532
PW-1	0.1	--	<0.1	--
Total	1,313	--	1,505	--

As shown in the table above, WRR’s production well PW-1 removed less than one tenth of a pound of VOCs over the last two years. As such, PW-1 is no longer functioning as a groundwater recovery well for removing VOCs from the ground, though its operation does create a cone of depression in the mid-depth and lower bedrock aquifers that helps limit the off-site migration of VOCs in the mid-depth aquifer. **Going forward, PW-1 will not be included in future discussion of the remediation of VOCs on site.** However, samples will be collected from PW-1 as part of the spring and fall groundwater sampling events to monitor VOC concentrations in case they change.

RW-7 only operated for the month of December 2020 during this reporting period, whereas the other recovery wells operated more than 87 percent of the reporting period. The mass of VOCs removed by RW-6 increased over the last year, whereas the mass of VOCs removed by RW-12 stayed the same and the mass removed by RW-10, RW-11, and RW-13 all decreased. Interestingly, the VOC removal efficiency rate for RW-6 and RW-12 increased slightly over the last two years, likely due to higher VOC concentrations in the groundwater they were pumping, as shown in the table below. Charts showing trends in the mass of VOCs removed by each well are included in Appendix B-2.

The decrease in the removal efficiency rates may be due to lower pumping rates and therefore smaller capture areas by each well and/or a decrease in VOC concentrations within the groundwater removed by each well. Tables listing the VOC concentrations measured in each recovery well during the current and previous reporting periods are included with Appendix B-1. A summary table of the percent change in average VOC concentrations during the last two reporting periods in each recovery well follows.

Well ID	Average VOC Concentration (µg/l) & Period		Percent Change in Average VOC Concentration
	Nov 2019 – Nov 2020	Dec 2020 – Nov 2021	
RW-6	9,429	22,708	141% increase
RW-7	529	369	30% decrease
RW-10	119,739	91,209	24% decrease
RW-11	24,722	16,069	35% decrease
RW-12	105,003	125,351	19% increase
RW-13	67,792	26,050	62% decrease
PW-1	0.71	0.18	75% decrease

Additional discussion of the operational history and trends in VOC concentrations and removal rates by each recovery well that operated during this reporting period follows.

B1.1 Recovery Well RW-6

RW-6 is screened in the mid-depth aquifer, began operating in May 1989, and generally operated continuously until December 2003. RW-6 was restarted in October 2013 and has operated continuously except for periods when it was down for repairs. Table B-1 summarizes the VOC concentrations measured in RW-6 from October 2013 through November 2021.

During this reporting period, RW-6 operated continuously at an average flow rate of 3,215 gallons per day (gpd), removing a total volume of 1,105,980 gallons of water. As shown in Table B-2, RW-6 removed 205 lbs of VOCs during this reporting period, about four times more mass than was removed by RW-6 during the previous 13-month reporting period from November 2019 through November 2020. Through November 2021, over 21 million gallons of groundwater

containing 32,511 lbs of VOCs have been removed by RW-6. A chart showing the total VOC concentrations measured in and mass of VOCs removed by RW-6 from May 1989 through November 2021 is included in Appendix B-2.

The increase in the mass of VOCs removed by RW-6 during this reporting period is partially due to the increased pumping rate after October 16, 2020, when fouling within the meter that restricted flow was removed. The increase in the flow rate also increased VOC concentrations in the groundwater being removed by 141 percent. The average VOC concentration of the groundwater removed during the previous reporting period (Nov 2019 – Nov 2020) was 9,429 $\mu\text{g}/\ell$ but then increased to 22,708 $\mu\text{g}/\ell$ after the pumping rate was increased in October 2020. As a result of the increased flow rate and VOC concentrations, the volume of pumped groundwater required to remove one pound of VOCs decreased from 11,512 gallons per pound (gal/lb) during the previous reporting period to 5,395 gal/lb during this reporting period. The VOC removal rate is inversely proportional to the well's efficiency at removing VOCs from the groundwater, so a lower number indicates a higher removal efficiency. Taken collectively, the increase in its efficiency rate and mass of VOCs removed during this reporting period indicates that RW-6 is still functioning as an important part of the groundwater remediation system.

B1.2 Recovery Well RW-7

RW-7 is screened in the mid-depth aquifer, began operating in October 1990, and generally operated continuously until December 2003. RW-7 was restarted in August 2012 and was generally operating continuously until May 2019. RW-7 remained off until April 2020 when its pump was replaced and restarted and then it operated continuously through the last reporting period, November 2020.

During this reporting period, RW-7 only operated for the month of December 2020, removing 359,880 gallons containing 1.5 lbs of VOCs. RW-7 was turned off on December 31, 2020, because the relatively high volume of groundwater with low VOC concentrations it was removing was reducing the efficiency of the turbo air stripper to remove VOCs from groundwater pumped by the other recovery wells.

Through December 2020, RW-7 removed over 42 million gallons of groundwater containing 20,845 lbs of VOCs. See Tables B-3 and B-4 for more detail on VOC concentrations measured in and mass of VOC removed by RW-7 through December 2020, respectively. The average VOC concentration of the groundwater removed by RW-7 during the previous reporting period (Nov 2019 – Nov 2020) was 529 $\mu\text{g}/\ell$ but decreased to 369 $\mu\text{g}/\ell$ in December 2020. The removal efficiency for RW-7 has also been decreasing as the total VOC concentrations in the mid-depth aquifer decrease. The volume of pumped groundwater required to remove one pound of VOCs increased from 196,367 gal/lb during the previous reporting period to 239,920 gal/lb during this reporting period. A chart showing the mass of VOCs removed by and VOC concentrations measured in RW-7 since October 1990 through December 2020 is included in Appendix B-2. As shown on that chart, the mass of VOCs being removed by RW-7 flatlined several years ago.

Consequently, RW-7 only operated for the first 31 days of the current reporting period and then was shut down. See the main report for additional details.

B1.3 Recovery Well RW-10

RW-10 is a dual-phase soil vapor and groundwater extraction well screened in the shallow aquifer and vadose zone and began operating as a groundwater recovery well in July 2015. RW-10 is also part of the main SVE system along with RW-11, SVE-4, and SVE-7, and its groundwater pumping flow rate increases during the warmer months of the year when the main SVE system is operating.

During this reporting period, RW-10 pumped continuously but at a relatively low average flow rate of 166 gpd, removing 60,614 gallons containing 46.9 lbs of VOCs. From July 2014 through November 2021, RW-10 removed about 4 million gallons of groundwater containing 4,603 lbs of VOCs. See Tables B-5 and B-6 for more detail on VOC concentrations measured in and mass of VOCs removed by RW-10 through November 2021. Despite average VOC concentrations measured in RW-10 decreasing by 24 percent between the previous and current reporting periods, RW-10 still has a comparatively good VOC removal rate of 1,292 gal/lb. A chart showing the mass of VOCs removed by and VOC concentrations measured in RW-10 from July 2015 through November 2021 is included in Appendix B-2. WRR plans to continue operating RW-10 for the next reporting period and will evaluate options to increase its pumping rate.

B1.4 Recovery Well RW-11

Like RW-10, RW-11 is a dual-phase soil vapor and groundwater extraction well screened in the shallow aquifer and vadose zone. RW-11 began operating as a recovery well in May 2015, and its pumping rate also increases during the warmer months when it is also operating as an SVE well.

RW-11 operated continuously during this reporting period except between October 4 and 28, 2021, when it was off line for repairs. While operating, RW-11 pumped at an average daily flow rate of 873 gpd, removing 297,671 gallons of groundwater containing 40 lbs of VOCs during this reporting period. From May 2015 through November 2021, RW-11 removed approximately 3.1 million gallons of groundwater containing 520 lbs of VOCs. See Tables B-7 and B-8 for more detail on VOC concentrations measured in and mass of VOC the removed by RW-11 through November 2021, respectively. A chart showing the mass of VOCs removed by and VOC concentrations measured in RW-11 from May 2015 through November 2021 is included in Appendix B-2.

Like RW-7, RW-10, and RW-13, the average VOC concentrations measured in RW-11 decreased (35 percent) between the last and current reporting periods. The lower VOC concentrations resulted in an increase in the volume of pumped water required to remove one pound of VOCs from 4,785 gal/lb during the previous reporting period to 7,442 gal/lb during this reporting period. WRR plans to continue operating RW-11 for the next reporting period and will evaluate options to increase its pumping rate.

B1.5 Recovery Well RW-12

RW-12 is screened in the mid-depth aquifer and began operating on November 30, 2017. During this reporting period, RW-12 pumped continuously except for July 23 through September 7, 2021, when it was down for repairs. While operating, RW-12 pumped at average daily flow rate of 2,632 gpd, removing 839,440 gallons of groundwater containing 920 lbs of VOCs. From November 2017 through November 2021, RW-12 removed approximately 2.97 million gallons of groundwater containing 2,657 lbs of VOCs. See Tables B-9 and B-10 for more detail on VOC concentrations measured in and mass of VOCs removed by RW-12 through November 2021, respectively. A chart showing the mass of VOCs removed by and VOC concentrations measured in RW-12 through November 2021 is included in Appendix B-2.

The total mass of VOCs removed by RW-12 during this reporting period (920 lbs) was roughly equal to the mass removed during the 13-month previous reporting period (923 lb), even though the average VOC concentrations removed increased by 19 percent from 105,003 $\mu\text{g}/\ell$ to 125,351 $\mu\text{g}/\ell$ over the same time periods. The higher VOC concentrations resulted in a decrease in the volume of pumped water required to remove one pound of VOCs from 1,151 gal/lb during the previous reporting period to 912 gal/lb during this reporting period, making RW-12 the most efficient recovery well at removing VOCs from the groundwater.

B1.6 Recovery Well RW-13

RW-13 is screened in the mid-depth aquifer and began operating on January 18, 2019. During this reporting period, RW-13 pumped continuously on a cycle of 3 minutes every 15 minutes and pumped at an average daily flow rate of 3,625 gpd, removing 1,323,230 gallons of groundwater containing 292 lbs of VOCs. From January 2019 through November 2021, RW-13 removed approximately 2.38 million gallons of groundwater containing 1,000 lbs of VOCs. See Tables B-11 and B-12 for more detail on VOC concentrations measured in and mass of VOC the removed by RW-13 through November 2021, respectively. A chart showing the mass of VOCs removed by and VOC concentrations measured in RW-13 through November 2021 is included in Appendix B-2.

The total mass of VOCs removed by RW-13 during this reporting period (292 lbs) was about 21 percent less than the mass removed during the 13-month previous reporting period (369 lb). The decrease in the mass removed during this reporting period was primarily due to decreases in VOC concentrations of groundwater being pumped by RW-13. The average VOC concentration in the previous reporting period was 67,792 $\mu\text{g}/\ell$ but decreased by 62 percent to 26,050 $\mu\text{g}/\ell$ during this reporting period. The lower VOC concentrations resulted in an increase in the volume of pumped water required to remove one pound of VOCs from 1,853 gal/lb during the previous reporting period to 4,532 gal/lb during this reporting period. Since it began full-time operation in April 2019, VOC concentrations in the pumped groundwater have been steadily decreasing, which has led to decreasing VOC concentrations in downgradient mid-depth monitoring wells.

WRR plans to continue operating RW-13 to limit the off-site migration of VOCs in the mid-depth aquifer.

B1.7 Production Well

The production well for WRR was pumped as needed every day the facility was in operation at an average flow rate of 17,843 gpd during this reporting period. However, the production well is pumped at variable rates on an as-needed basis, with significant periods when it is off. During periods of peak demand, the production well pumps at 60 gpm.

Since the main SVE system and recovery wells RW-10 through RW-13 began operating, VOC concentrations in the water pumped from WRR's production well have steadily declined. Over the past two years, only 0.1 lb of VOCs was removed by the production well, with all of that occurring during the previous reporting period, indicating that the production well is no longer serving as a recovery well nor removing an appreciable mass of VOCs.

Going forward, WRR does not plan to collect monthly samples to monitor the VOC concentrations in the production well. However, samples will be collected from the production well as part of the spring and fall groundwater sampling events to monitor VOC concentrations in case they change.

APPENDIX B-1

**TABLES WITH VOC CONCENTRATIONS, PUMPING VOLUMES,
AND MASS OF VOCS REMOVED**

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			10/13	03/14	4/14	5/14	7/14	8/14
			Pace	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	543	2,500	2,800	2,200	6,000	3,800
Benzene	5	0.5	<50.0	32	33	33	<180	<66
Chloroethane	400	80	296	210	230	190	<1,300	<590
1,1-Dichloroethane	850	85	47.4	93	88	88	<220	110
1,2-Dichloroethane	5	0.5	<47.6	14	<12	<11.0	<210	<120
cis-1,2-Dichloroethylene	70	7	301	160	140	110	<150	76
Ethylbenzene	700	140	1,080	120	230	400	<150	560
Isopropyl Alcohol	3,000 ⁽¹⁾		<4,080	3,100	2,200	2,100	<7,300	<4,400
Isopropyl Ether	NSE	NSE	<50.0	24	21	13	<150	<63
Methylene Chloride	5	0.5	51.5	<20	<20	<11	<220	<200
Methyl Ethyl Ketone	4,000	800	<270	580	560	310	<1,000	670
4 Methyl-2-pentanone (MIBK)	500	50	1,110	1,100	810	1,100	<560	960
Toluene	800	160	11,500	7,300	8,200	9,200	7,300	9,500
1,2,4-Trimethylbenzene	480	96	<50.0	38	32	22	<120	<140
1,3,5-Trimethylbenzene			ND	ND	ND	10	<130	<140
m-&p-Xylene	2,000	400	2,310	1,700	1,700	2,000	1,500	2,100
o-Xylene			607	520	490	630	390	630
Vinyl Chloride	0.2	0.02	151	110	99	110	<170	100
Total VOCs			17,454	17,601	17,633	18,516	15,190	18,506

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			9/14	10/14	10/14	11/14	12/14	01/15
			NLS	NLS	Pace	NLS	NLS	NLS
Acetone	9,000	1,800	4,400	3,400	6,660	6,400	4,500	4,700
Chloroethane	400	80	<1,000	<940	264	<150	<1200	<1300
1,1-Dichloroethane	850	85	<170	<100	139	<170	<130	<220
cis-1,2-Dichloroethylene	70	7	<120	98	83.7	<120	<100	<150
Ethylbenzene	700	140	<120	530	401	<120	420	520
Isopropyl Alcohol	3,000 ⁽¹⁾		<5,900	<7,000	3,240	<5,900	<8,700	<7,300
Methyl Ethyl Ketone	4,000	800	<800	<800	735	<800	<1,000	<1,000
4 Methyl-2-pentanone (MIBK)	500	50	1,500	1,000	1,230	1,200	1,500	1,100
Toluene	800	160	14,000	11,000	11,000	12,000	13,000	12,000
m-&p-Xylene	2,000	400	2,800	2,500	1,830	2,400	2,500	2,700
o-Xylene			790	770	481	720	780	800
Vinyl Chloride	0.2	0.02	<130	140	87.6	<130	<170	<170
Total VOCs			23,490	19,438	26,151	22,720	22,700	21,820

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			02/15	03/15	04/15	05/15	06/15	07/15
			NLS	NLS	NLS	NLS	NLS	NLS
Ethylbenzene	700	140	900	<140	850	890	850	760
4 Methyl-2-pentanone (MIBK)	500	50	440	810	<330	580	570	350
Toluene	800	160	8,700	10,000	7,600	10,000	7,500	6,100
m-&p-Xylene	2,000	400	2,200	2,400	1,700	2,000	1,600	1,500
o-Xylene			580	690	470	580	350	420
Vinyl Chloride	0.2	0.02	<160	<160	<160	<120	<120	130
Total VOCs			12,820	13,900	10,620	14,050	10,870	9,260

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			08/15	09/15	10/15	11/15	12/15	04/16
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	<2,100	<2,000	<830	<830	<830	3,000
Chloroethane	400	80	<610	<740	<120	<250	<250	200
Ethylbenzene	700	140	780	885	720	880	680	1,200
Isopropyl Alcohol	3,000 ⁽¹⁾		<2,900	<1,700	<1700	<1,200	<1,200	3,400
Methylene Chloride	5	0.5	190	<120	<36	110	<51	<47
Methyl Ethyl Ketone	4,000	800	<500	<150	<200	<200	<200	700
4 Methyl-2-pentanone (MIBK)	500	50	390	156	<83	<62	<62	1,100
Toluene	800	160	5,100	5,060	2,100	3,100	2,100	11,000
1,2,4-Trimethylbenzene	480	96	<100	<140	<33	<41	<41	44
1,3,5-Trimethylbenzene			<130	<46	<41	<52	<52	<43
m-&p-Xylene	2,000	400	1,600	1,640	1,300	1,700	1,300	2,700
o-Xylene			380	479	360	450	350	770
Vinyl Chloride	0.2	0.02	94	<100	41	48	45	<34
Total VOCs			8,534	8,220	4,521	6,288	4,475	24,114

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			05/16	05/16	07/16	08/16	09/16	10/16
			Pace	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	3,740	6,700	<4,200	<4,200	<3,300	<3,300
Chloroethane	400	80	273	<1500	<1500	<930	<740	<1,200
1,1-Dichloroethane	850	85	54.6	<180	<180	<190	<150	<140
cis-1,2-Dichloroethylene	70	7	39	<180	<180	<240	<190	<140
Ethylbenzene	700	140	978	1,200	910	1,100	880	930
Isopropyl Alcohol	3,000 ⁽¹⁾		3,910	5,500	<5,000	<4,400	<3,500	<4,000
Methyl Ethyl Ketone	4,000	800	533.0	<500	<500	<570	<450	<400
4 Methyl-2-pentanone (MIBK)	500	50	1,030	1,100	550	650	570	<320
Toluene	800	160	11,100	15,000	8,700	7,400	7,400	6,700
m-&p-Xylene	2,000	400	2,450	2,900	1,900	2,000	1,700	1,900
o-Xylene			647	720	550	560	470	540
Vinyl Chloride	0.2	0.02	43.3	<160	<160	<170	<140	<130
Total VOCs			24,798	33,120	12,610	11,710	11,020	10,070

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			11/16	12/16	01/17	02/17	03/17	04/17
			ALS	NLS	NLS	NLS	NLS	NLS
Ethylbenzene	700	140	820	730	550	760	850	830
4 Methyl-2-pentanone (MIBK)	500	50	<270	230	<270	<160	<210	<200
Toluene	800	160	5,600	5,800	4,200	4,800	5,100	5,000
m-&p-Xylene	2,000	400	1,700	1,500	1,100	1,500	1,600	1,900
o-Xylene			460	450	330	440	480	540
Total VOCs			8,580	8,710	6,180	7,500	8,030	8,270

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			05/17	06/17	09/17	10/17	11/17	12/17
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	<2,100	<2,100	<4,200	5,300	<4,200	5,200
Ethylbenzene	700	140	920	710	560	330	950	310
Isopropyl Alcohol	3,000 ⁽¹⁾		<2,200	<2,200	<5,000	<4,400	<4,400	4,600
Methyl Ethyl Ketone	4,000	800	950	<280	<500	1,300	<570	910
4 Methyl-2-pentanone (MIBK)	500	50	310	<270	1,400	1,200	<540	1,800
Toluene	800	160	4,700	3,600	13,000	13,000	7,900	12,000
m-&p-Xylene	2,000	400	1,800	1,400	1,900	2,300	2,000	2,300
o-Xylene			500	400	610	750	580	700
Total VOCs			9,180	6,110	17,470	24,180	11,430	27,820

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			01/18	02/18	03/18	04/18	05/18	06/18
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	5,200	<4,200	<4,200	<4,200	4,600	<5,200
Ethylbenzene	700	140	250	470	400	770	670	780
Isopropyl Alcohol	3,000 ⁽¹⁾		7,300	7,600	7,500	<4,400	7,800	<5,500
Methyl Ethyl Ketone	4,000	800	<570	<570	<570	<570	<500	<710
4 Methyl-2-pentanone (MIBK)	500	50	1,100	1,200	710	750	1,300	<670
Toluene	800	160	14,000	13,000	13,000	15,000	13,000	8,500
m-&p-Xylene	2,000	400	2,700	2,300	2,400	2,800	2,600	1,600
o-Xylene			820	780	780	890	730	500
Total VOCs			31,370	25,350	24,790	20,210	30,700	11,380

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			07/18	08/18	09/18	10/18	11/18	06/19
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	994	467	<92.5	<231	<185	1,560
Benzene	5	0.5	24.9	21.2	15.5	15.6	14.3	48.0
Chloroethane	400	80	143	136	74.6	88.0	129	198
1,2-Dichlorobenzene	600	60	5.3	<6.8	3.6	<3.4	<2.7	<2.7
1,3-Dichlorobenzene	600	120	0.24	<8.0	<1.6	<4.0	<3.2	<3.2
1,4-Dichlorobenzene	75	15	0.77	<8.4	<1.7	<4.2	<3.4	<3.4
1,1-Dichloroethane	850	85	27.7	21.4	15.2	16.6	15.2	19.1
1,2-Dichloroethane	5	0.5	2.8	<10.9	<2.2	<5.4	<4.4	27.0
1,1-Dichloroethene	7	0.7	0.26	<8.0	<1.6	<4.0	<3.2	<3.2
cis-1,2-Dichloroethylene	70	7.0	24.0	8.0	10.7	12.0	9.2	8.3
trans-1,2-Dichloroethene	100	20	1.5	<5.8	<1.2	<2.9	<4.7	<4.7
Ethylbenzene	700	140	1,100	962	884	851	904	614
Methylene Chloride	5	0.5	<0.98	52.9	<9.8	<24.5	<19.6	<19.6
Methyl Ethyl Ketone	4,000	800	184	<49.6	<9.9	<24.8	<19.8	449
4 Methyl-2-pentanone (MIBK)	500	50	415	278	55.9	30.1	<8.4	1,290
Methyl-tert-butyl ether	60	12	0.94	<8.0	<1.6	<4.0	<3.2	<3.2
Tetrachloroethylene	5	0.5	1.1	<8.5	<1.7	<4.2	<3.4	<3.4
Toluene	800	160	7,250	5,650	2,800	3,080	2,710	11,500
1,1,1-Trichloroethane	200	40	0.29	<6.8	<1.4	<3.4	<2.7	<2.7
Trichloroethylene	5	0.5	0.56	<7.6	<1.5	<3.8	<3.0	<3.0
1,2,4-Trimethylbenzene	480	96	52.5	40.4	33.7	30.1	32.4	42.9
1,3,5-Trimethylbenzene			16.7	14.1	10.4	9.0	9.8	14.3
Vinyl chloride	0.2	0.02	26.8	22.2	18.4	21.6	22.6	15.0
Xylenes (total)	2,000	400	3,190	2,840	2,540	2,540	2,880	4,240
Total VOCs			13,462	10,513	6,462	6,694	6,727	20,026

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			08/19	09/19	10/19	11/19	12/19	01/20
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	1,790	1,440	1,290	1,320	<925	829
Benzene	5	0.5	33.7	30.3	17.4	19.7	18.5	19.5
Chloroethane	400	80	145	171	130	129	109	108
Chloroform	6	0.6	<4.5	<44.8	<49.3	<24.6	<49.3	36.6
1,2-Dichlorobenzene	600	60	4.9	<13.7	<13.7	<6.8	<13.7	<6.8
1,1-Dichloroethane	850	85	22.7	<17.0	<17.0	22.8	<17.0	18.5
1,2-Dichloroethane	5	0.5	9.9	<21.8	<21.8	<10.9	<21.8	13.0
cis-1,2-Dichloroethylene	70	7.0	12.9	<15.4	<15.4	8.8	<15.4	<7.7
Ethylbenzene	700	140	987	1,180	1,000	966	1,060	983
Methylene Chloride	5	0.5	<9.8	<98.0	<149	<74.5	<149	125
Methyl Ethyl Ketone	4,000	800	365	<99.2	<99.2	<49.6	<99.2	<49.6
4 Methyl-2-pentanone (MIBK)	500	50	1,000	793	409	480	382	342
Toluene	800	160	8,660	12,400	8,420	7,340	7,630	5,580
1,2,4-Trimethylbenzene	480	96	58.4	61.2	27.8	31.2	49.3	39.4
1,3,5-Trimethylbenzene			18.8	<12.2	<12.2	10.6	<12.2	11.5
Vinyl chloride	0.2	0.02	13.4	24.5	<9.2	<4.6	<9.2	5.7
Xylenes (total)	2,000	400	3,890	4,390	3,290	3,000	3,260	2,880
Total VOCs			17,012	20,490	14,584	13,328	12,509	10,991

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			02/20	03/20	04/20	05/20	06/20	07/20
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	<185	440	346	274	41.8	101
Benzene	5	0.5	15.4	20.9	16.8	14.8	15.7	15.2
2-Butanone (MEK)	4,000	800	<19.8	80.4	67.0	50.1	14.8	<8.8
Chloroethane	400	80	105	123	120	85.9	108	98.2
1,2-Dichlorobenzene	600	60	2.9	<2.7	<2.7	<2.7	3.66	3.4
1,3-Dichlorobenzene	600	120	<3.2	<3.2	<2.3	<2.3	0.156	<1.2
1,4-Dichlorobenzene	75	15	<3.4	<3.4	<1.6	<1.6	0.444	<0.82
Dichlorodifluoroemethane	1,000	200	<4.7	<4.7	<3.9	<3.9	10.6	<2.0
1,1-Dichloroethane	850	85	14.0	22.3	16.6	14.3	16.3	14.8
cis-1,2-Dichloroethylene	70	7.0	<3.1	4.1	<3.9	<3.9	3.91	2.9
trans-1,2-Dichloroethylene	100	20	<4.7	<4.7	<3.8	<3.8	1.01	<1.9
Ethylbenzene	700	140	891	918	840	859	851	907
Isopropyl Alcohol	3,000 ⁽¹⁾		<228	627	675	<197	172	245
Isopropylbenzene (Cumene)	NSE	NSE	6.1	11.1	4.9	5.7	7.89	6.3
Methylene Chloride	5	0.5	32.0	<29.8	<22.0	<22.0	3.30	<11.0
4-Methyl-2-pentanone (MIBK)	500	50	12.1	350	269	247	102	134
Methyl-tert-butyl ether	60	12	<3.2	<3.2	<2.3	<2.3	0.813	<1.2
Naphthalene	100	10	<32.8	<32.8	<13.6	<13.6	3.14	7.5
Toluene	800	160	3,500	5,930	5,370	5,280	3,920	5,420
Trichloroethylene	5	0.5	<3.0	<3.0	<3.0	<3.0	0.445	<1.5
1,2,4-Trimethylbenzene	480	96	36.3	36.5	24.8	35.5	35.5	32.6
1,3,5-Trimethylbenzene			11.6	14.6	8.2	10.6	11.1	10.4
Vinyl chloride	0.2	0.02	3.1	7.2	6.9	5.3	10.8	8.6
Xylenes (total)	2,000	400	2,900	2,780	2,700	2,570	2,780	2,840
Total VOCs			7,530	11,365	10,465	9,452	8,114	9,847

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			08/20	09/20	10/20	11/20	01/21	02/21
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	35.9	23.7	<137	<137	2,520	3,040
Benzene	5	0.5	15.1	12.8	12.6	20.8	31.9	30.5
2-Butanone (MEK)	4,000	800	11.0	<4.4	<147	<147	498	587
Chlorobenzene	NSE	NSE	1.2	0.86	<35.5	<35.5	<35.5	<1.5
Chloroethane	400	80	93.8	93.1	99.0	95.1	178	163
1,2-Dichlorobenzene	600	60	3.2	2.3	<35.3	<35.3	<35.3	4.4
1,4-Dichlorobenzene	75	15	0.35	<0.41	<47.2	<47.2	<47.2	<1.6
1,1-Dichloroethane	850	85	14.0	11.4	<13.6	16.0	16.5	20.0
cis-1,2-Dichloroethylene	70	7.0	3.9	2.9	<13.6	<13.6	<13.6	16.9
trans-1,2-Dichloroethene	100	20	1.8	<0.96	<23.2	<23.2	<23.2	<3.8
Ethylbenzene	700	140	831	721	748	684	266	266
Isopropyl Alcohol (2-Propanol)	3,000 ⁽¹⁾		159	135	<1,450	<1,450	2,220	3,520
Isopropylbenzene (Cumene)	NSE	NSE	6.2	5.1	<84.3	<84.3	<84.3	<2.6
Methylene Chloride	5	0.5	3.6	6.8	<29.0	<29.0	<29.0	<2.6
4-Methyl-2-pentanone (MIBK)	500	50	94.1	58.1	<232	<232	842	1,080
Methyl-tert-butyl ether	60	12	0.73	<0.58	<62.3	<62.3	<62.3	<2.3
Naphthalene	100	10	2.8	<3.4	<58.8	<58.8	<58.8	<13.6
Toluene	800	160	3,870	3,430	3,590	4,400	10,900	11,000
1,1,1-Trichloroethane	200	40	<1.4	<13.6	<13.6	<6.8	<13.6	6.5
1,2,4-Trimethylbenzene	480	96	33.0	23.9	<42.0	<42.0	<47.6	45.3
1,3,5-Trimethylbenzene			9.9	7.2	<43.7	<43.7	<43.7	14.5
Vinyl chloride	0.2	0.02	9.2	7.9	<8.7	<8.7	<8.7	5.1
Xylenes (total)	2,000	400	2,650	2,380	2,500	2,040	3,300	3,460
Total VOCs			7,850	6,922	6,950	7,256	20,772	23,259

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			03/21	04/21	05/21	06/21	07/21	08/21
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	2,990	2,690	3,440	1,070	1,060	1,750
Benzene	5	0.5	38.8	29.7	38.2	33.1	31.2	32.2
2-Butanone (MEK)	4,000	800	640	419	<326	<326	384	<652
Chloroethane	400	80	205	173	233	148	134	212
1,2-Dichlorobenzene	600	120	<35.3	<16.3	<16.3	<16.3	17.0	<32.6
1,1-Dichloroethane	850	85	20.4	19.5	<14.8	<14.8	19.7	30.1
Ethylbenzene	700	140	409	229	300	433	385	395
Isopropyl Alcohol	3,000 ⁽¹⁾		3,090	3,310	4,200	2,310	2,480	4,760
4-Methyl-2-pentanone (MIBK)	500	50	961	868	980	525	534	902
Toluene	800	160	12,100	11,600	12,000	11,400	10,400	10,500
1,2,4-Trimethylbenzene	480	96	<42.0	33.2	36.5	32.4	28.6	<44.9
1,3,5-Trimethylbenzene			<43.7	<17.9	<17.9	<17.9	<17.9	<35.7
Vinyl chloride	0.2	0.02	<8.7	9.6	<8.7	<8.7	<8.7	<17.4
Xylenes (total)	2,000	400	3,450	3,250	3,480	3,130	2,500	2,640
Total VOCs			23,904	22,631	24,708	19,082	17,974	21,221

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			09/21	10/21	11/21	12/21		
			Pace	Pace	Pace	Pace		
Acetone	9,000	1,800	3,710	3,510	4,020	3,750		
Benzene	5	0.5	33.9	38.1	<29.5	30.7		
2-Butanone (MEK)	4,000	800	<652	<652	669	698		
Chloroethane	400	80	209	179	210	<138		
Ethylbenzene	700	140	480	501	408	488		
Isopropyl Alcohol	3,000 ⁽¹⁾		5,680	4,240	4,870	7,310		
Methylene Chloride	5	0.5	<31.9	<31.9	<31.9	39.6		
4-Methyl-2-pentanone (MIBK)	500	50	649	<595	781	634		
Toluene	800	160	12,600	13,400	10,900	10,400		
Xylenes (total)	2,000	400	3,010	3,400	2,740	2,900		
Total VOCs			26,372	25,268	24,598	26,250	0	0

TABLE B-1

SUMMARY OF DETECTED COMPOUNDS IN RW-6 (OCTOBER 2013 THROUGH NOVEMBER 2021)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

Some reported values fall below the Limit of Quantitation set by the lab.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

Each subsection of this table includes only those compounds detected in one or more samples collected during the range of dates shown.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR recommends using the health advisory limit of 3,000 ppb based on a 10^6 cancer risk taken from the following website: <http://dnr.wi.gov/topic/drinkingwater/documents/haltable.pdf> - dated May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-2

ESTIMATED VOLUME OF WATER PUMPED AND MASS OF VOCs REMOVED BY RW-6

Sample Date or Month/Yr	Meter Reading Date or Month/Yr	Total Volume of Water Pumped ⁽¹⁾ (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
05/89	05/89	1,096	1,184,030	11	11
12/89	12/89	75,606	1,159,700	729	740
06/90	06/90	119,466	1,118,970	417	1,157
10/90 ⁽²⁾	10/90	261,836	1,476,900	1,542	2,698
6/91 & 7/91	6/91 & 7/91	509,069	751,000	2,298	4,997
4/92 & 5/92	4/92 & 5/92	691,930	1,085,000	1,401	6,397
4/93 ⁽²⁾ & 5/93	4/93 & 5/93	1,099,126	493,000	2,681	9,078
10/93 - 12/93	10/93 - 12/93	1,215,610	1,325,300	884	9,962
4/94 & 5/94	4/94 & 5/94	1,369,029	321,300	1,054	11,016
11/01/94	10/94 & 11/94	1,642,841	118,700	503	11,518
05/08/95	4/95 & 5/95	1,917,548	65,129	211	11,729
05/31/97	12/97	2,357,394	529,708	1,092	12,821
05/31/98	05/98	3,742,984	294,920	4,767	17,588
12/31/99	12/99	8,008,954	98,237	6,998	24,585
05/31/00	05/00	8,922,314	232,390	1,260	25,845
04/30/01	04/01	10,694,054	73,720	2,263	28,108
05/15/02	12/03	13,390,764	98,960	1,943	30,051
12/03	12/03	15,377,614	98,960	1,641	31,692
10/30/13	10/31/13	15,387,344	17,997	4.7	31,696
03/04/14	04/01/14	15,648,760	17,601	38.8	31,735
05/06/14	05/06/14	15,722,110	18,516	11.1	31,746
07/09/14	07/09/14	15,800,900	15,190	11.1	31,757
08/05/14	08/05/14	15,913,010	18,506	15.8	31,773
09/09/14	09/09/14	16,036,320	23,490	21.6	31,795
10/08/14	10/31/14	16,229,670	22,795	37.3	31,832
11/12/14	11/12/14	16,277,750	22,720	9.1	31,841
12/04/14	12/04/14	16,363,270	22,700	16.2	31,857
01/07/15	01/07/15	16,455,540	21,820	17.1	31,875
02/04/15	02/04/15	16,544,590	12,820	12.9	31,887
03/11/15	03/11/15	16,627,200	13,900	9.2	31,897
04/09/15	04/09/15	16,697,770	10,620	7.2	31,904
05/05/15	05/05/15	16,751,300	14,050	5.5	31,909
06/03/15	06/03/15	16,808,080	10,870	5.9	31,915
07/08/15	07/08/15	16,855,160	9,260	4.0	31,919
08/04/15	08/04/15	16,897,260	8,534	3.1	31,922
09/09/15	09/09/15	16,947,240	8,220	3.5	31,926

TABLE B-2

ESTIMATED VOLUME OF WATER PUMPED AND MASS OF VOCs REMOVED BY RW-6

Sample Date or Month/Yr	Meter Reading Date or Month/Yr	Total Volume of Water Pumped ⁽¹⁾ (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
10/14/15	10/14/15	16,991,350	4,521	2.3	31,928
11/04/15	11/04/15	17,026,000	6,288	1.6	31,930
12/03/15	12/03/15	17,053,890	4,475	1.3	31,931
04/05/16	04/05/16	17,108,400	24,114	6.5	31,937
05/04/16	05/04/16	17,202,080	33,120	22.4	31,960
07/12/16	07/12/16	17,375,210	12,610	33.0	31,993
08/10/16	08/10/16	17,435,560	11,710	6.1	31,999
09/06/16	09/06/16	17,500,900	11,020	6.2	32,005
10/05/16	10/05/16	17,551,550	10,070	4.5	32,010
11/03/16	11/03/16	17,592,070	8,580	3.2	32,013
12/06/16	12/06/16	17,649,310	8,710	4.1	32,017
01/09/17	01/09/17	17,709,330	6,180	3.7	32,021
02/07/17	02/07/17	17,747,030	7,500	2.2	32,023
03/08/17	03/08/17	17,811,590	8,030	4.2	32,027
04/05/17	04/05/17	17,853,610	8,270	2.9	32,030
05/02/17	05/02/17	17,897,170	9,180	3.2	32,033
06/06/17	06/06/17	17,967,900	6,110	4.5	32,038
09/07/17	09/07/17	18,028,770	17,470	6.0	32,044
10/04/17	10/04/17	18,119,360	24,180	15.7	32,059
11/07/17	11/07/17	18,203,430	11,430	12.5	32,072
12/06/17	12/12/17	18,282,780	27,820	13.0	32,085
01/09/18	01/09/18	18,353,380	31,370	17.4	32,102
02/07/18	02/07/18	18,446,210	25,350	22.0	32,124
03/07/18	03/07/18	18,470,450	24,790	5.1	32,129
04/05/18	04/05/18	18,504,900	20,210	6.5	32,136
05/03/18	05/03/18	18,576,430	30,700	15.2	32,151
06/05/18	06/05/18	18,691,180	11,380	20.1	32,171
07/10/18	07/10/18	18,819,020	13,462	13.3	32,184
08/02/18	08/02/18	18,899,000	10,513	8.0	32,192
09/11/18	09/11/18	18,990,371	6,462	6.5	32,199
10/03/18	10/03/18	19,013,120	6,694	1.2	32,200
11/06/18	11/06/18	19,036,450	6,727	1.3	32,201
06/04/19	11/06/18	19,048,150	20,026	1.3	32,203
08/06/19	08/06/19	19,122,560	17,012	11.5	32,214
09/04/19	09/04/19	19,213,740	20,490	14.3	32,228
10/02/19	10/31/19	19,387,050	14,584	25.4	32,254
11/13/19	11/13/19	19,427,310	13,328	4.7	32,258
12/04/19	12/04/19	19,485,680	12,509	6.3	32,265

TABLE B-2

ESTIMATED VOLUME OF WATER PUMPED AND MASS OF VOCs REMOVED BY RW-6

Sample Date or Month/Yr	Meter Reading Date or Month/Yr	Total Volume of Water Pumped ⁽¹⁾ (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
01/09/20	01/09/20	19,567,480	10,991	8.0	32,273
02/04/20	02/04/20	19,595,060	7,530	2.1	32,275
03/03/20	03/03/20	19,663,710	11,365	5.4	32,280
04/07/20	04/07/20	19,758,130	10,465	8.6	32,289
05/04/20	05/04/20	19,823,390	9,452	5.4	32,294
06/02/20	06/02/20	19,879,340	8,114	4.1	32,298
07/07/20	07/07/20	19,928,980	9,847	3.7	32,302.12
08/04/20	08/04/20	19,935,450	7,850	0.48	32,302.60
09/02/20	09/02/20	19,937,990	6,922	0.16	32,302.76
10/07/20	10/07/20	19,938,500	6,950	0.030	32,302.79
11/11/20	11/30/20	19,980,160	7,256	2.5	32,305
01/06/21	01/06/21	20,057,610	20,772	9.1	32,314
02/02/21	02/02/21	20,144,890	23,259	21.0	32,326
03/03/21	03/03/21	20,241,020	23,904	34.2	32,348
04/13/21	04/13/21	20,379,770	22,631	26.9	32,375
05/04/21	05/04/21	20,427,430	24,708	9.4	32,385
06/08/21	06/08/21	20,551,550	19,082	22.7	32,408
07/13/21	07/13/21	20,665,520	17,974	17.6	32,425
08/03/21	08/03/21	20,706,640	21,221	6.7	32,432
09/14/21	09/14/21	20,839,660	26,372	26.41	32,458
10/26/21	10/26/21	20,975,680	25,268	29.31	32,488
11/03/21	11/30/21	21,086,140	24,598	22.98	32,511

TABLE B-2

ESTIMATED VOLUME OF WATER PUMPED AND MASS OF VOCs REMOVED BY RW-6NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}\ell$), equivalent to parts per billion (ppb)

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 1)

The total volume of water pumped by RW-6 is equal to the meter reading measured on each date plus 8,889,000 (prior to 07/30/18) or 18,889,000 (post 07/30/18 meter roll-over) gallons to account for periods when the meter was not functioning properly.

FOOTNOTES:

(1) Volumes pumped from 1989 through 2003 are based on Bi-Monthly Progress Reports prepared by WRR and submitted to USEPA; Table 4 of SEH's September 2001 *Evaluation of Supplemental Corrective Action Measures and Plan of Activities* report; and untitled table prepared by Mae Willkom (WDNR) using monthly pumping volumes reported by WRR to USEPA.

(2) Total VOC concentrations for October 1990 and April 1993 based on lab reports of samples analyzed by WRR's laboratory; other Total VOCs from 4/89 through 11/94 based on untitled table provided by WRR (most likely internal lab results); Total VOC concentrations for May 1994 through May 1995 based on Table 10 of Eder Associates December 1996 *RCRA Facility Investigation* report; Total VOC concentrations for May 1997 through April 2001 based on Table A-3 included with SEH's September 2001 *Evaluation of Supplement Corrective Measures and Plan of Activities* report; Total VOC concentrations for May 2002 based on Table 4 prepared and provided by WRR (unpublished - likely update of Table 2 of SEH's September 2001 report); Total VOC concentration for December 2003 and February 2007 equal to May 2002 total VOC concentration.

Calculation of Incremental Mass of VOCs Removed

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			08/12	09/12	10/12	11/12	12/12	01/13	02/13
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	<13	<9.8	<26	11	<6.4	<2.6	17
Chloroethane	400	80	120	120	<210	190	210	120	220
1,1-Dichloroethane	850	85	27	40	<19	46	61	42	87
cis-1,2-Dichloroethylene	70	7	<10	<10	<21	7.8	36	35	160
trans-1,2-Dichloroethylene	100	20	<9.7	<13	<19	<6.5	4.9	3.0	5.3
Ethylbenzene	700	140	290	100	310	47	30	<2.2	190
Isopropyl Ether	NSE	NSE	<9.5	<12	<19	7.9	<4.7	5.6	7.8
Methylene Chloride	5	0.5	<20	27	<100	<12	<10	<4.0	<10
Methyl Ethyl Ketone	4,000	800	ND ⁽¹⁾	ND ⁽¹⁾	<100	<25	<25	10	<25
Styrene	100	10	<9.7	<8.6	<19	<4.3	<4.9	<1.9	5.8
Toluene	800	160	410	350	1,000	340	220	2.7	850
1,2,4-Trimethylbenzene	480	96	<12	<9.1	<24	<4.5	<5.9	<2.4	6.7
m-&p-Xylene	2,000	400	750	510	940	500	380	<4.6	660
o-Xylene			220	170	290	180	120	61	200
Vinyl Chloride	0.2	0.02	<7.5	<9.2	<15	<4.6	26	20	61
Total VOCs	NSE	NSE	1,817	1,317	2,540	1,330	1,088	299	2,471

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			03/13	04/13	05/13	06/13		07/13	08/13
			NLS	NLS	NLS	NLS	Pace	NLS	NLS
Benzene	5	0.5	13	8.0	11	9.3	9.7	12	16
n-Butylbenzene	NSE	NSE	ND ⁽¹⁾	ND ⁽¹⁾	ND ⁽¹⁾	<7.3	2.1	<7.3	<7.3
Chloroethane	400	80	190	130	160	150	178	140	210
1,4-Dichlorobenzene	75	15	ND ⁽¹⁾	ND ⁽¹⁾	4	3.8	<2.2	<3.6	<3.6
1,1-Dichloroethane	850	85	110	120	89	68	80	68	95
1,1-Dichloroethene	7	0.7	ND ⁽¹⁾	ND ⁽¹⁾	10	<6.1	6.6	<7.2	8.6
1,2-Dichloroethane	5	0.5	ND ⁽¹⁾	ND ⁽¹⁾	ND ⁽¹⁾	<4.4	2.9	<6.1	<6.1
1,2-Dichloropropane	5	0.5	ND ⁽¹⁾	ND ⁽¹⁾	ND ⁽¹⁾	<7.3	2.8	<4.4	<4.4
cis-1,2-Dichloroethylene	70	7	310	450	320	230	263	190	380
trans-1,2-Dichloroethylene	100	20	<25	13	<7.9	<7.9	5.4	<7.9	<7.9
Ethylbenzene	700	140	120	<8.2	72	85	73.9	200	220
Isopropyl Ether	NSE	NSE	<10	<14	7.3	5.9	7.4	7.4	7.3
Methylene Chloride	5	0.5	<32	<20	<10	<10	<1.8	<10	<10
Toluene	800	160	600	42	450	380	343	540	600
Tetrachloroethylene	5	0.5	<17	<8.1	<5.4	<5.4	3.0	<5.4	<5.4
Trichloroethylene	5	0.5	<22	13	<6.8	<6.8	4.6	<6.8	<6.8
1,2,4-Trimethylbenzene	480	96	<22	<8.6	<6.9	<6.9	6.6	<6.9	<6.9
m-&p-Xylene	2,000	400	580	430	450	400	545	470	540
o-Xylene			170	160	150	130	175	130	150
Vinyl Chloride	0.2	0.02	71	69	61	33	37.8	32	84
Total VOCs	NSE	NSE	2,164	1,435	1,784	1,495	1,747	1,789	2,311

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			09/13	10/13		11/13	12/13	01/14	2/14
			NLS	NLS	Pace	NLS	NLS	NLS	NLS
Benzene	5	0.5	14	17	10.2	14	<11	14	<11
Chloroethane	400	80	170	180	164	150	160	150	200
1,1-Dichloroethane	850	85	93	56	90.2	72	110	180	210
1,1-Dichloroethene	7	0.7	<12	<14	6.8	<14	<23	42	45
1,2-Dichloroethane	5	0.5	<9.7	<12	3.4	<12	<19	<19	<19
1,2-Dichloropropane	5	0.5	<7.0	<8.7	3.3	<8.7	<14	<14	15
cis-1,2-Dichloroethylene	70	7	340	110	391	430	710	1,200	1,600
trans-1,2-Dichloroethylene	100	20	<13	<16	8.3	<16	<25	<25	<25
Ethylbenzene	700	140	240	270	149	220	78	60	<20
Isopropyl Ether	NSE	NSE	6.9	7.6	5.1	<6.3	<10	<10	<10
Methylene Chloride	5	0.5	<16	<20	4.0	<20	<32	<32	<32
Toluene	800	160	610	630	506	570	350	450	240
Trichloroethylene	5	0.5	<11	<14	2.7	<14	<22	<22	<22
1,2,4-Trimethylbenzene	480	96	<11	<14	2.6	<21	<22	<22	<22
m-&p-Xylene	2,000	400	520	620	427	570	430	570	430
o-Xylene			130	170	130	150	130	140	130
Vinyl Chloride	0.2	0.02	61	24	49.6	65	88	140	120
Total VOCs	NSE	NSE	2,185	2,085	1,953	2,241	2,056	2,946	2,990

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			03/14	4/14	5/14	7/14	8/14	9/14	10/14
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	<11	<11	<18	9.8	15	8.4	14
Chloroethane	400	80	190	210	180	77	160	120	200
1,1-Dichloroethane	850	85	160	150	140	63	100	97	91
1,1-Dichloroethene	7	0.7	36	36	34	14	24	21	<12
1,2-Dichloropropane	5	0.5	14	14	<18	<7.3	<7.0	<7.3	<7.0
cis-1,2-Dichloroethylene	70	7	1,200	1,100	1,100	420	790	730	460
Ethylbenzene	700	140	61	36	<15	170	150	<5.9	110
Isopropyl Ether	NSE	NSE	<10	<10	<15	<5.8	6.0	7.6	9.6
Methylene Chloride	5	0.5	<32	<32	<22	<8.9	<16	10	<16
Toluene	800	160	210	180	270	300	460	200	310
m-&p-Xylene	2,000	400	410	370	470	270	380	380	560
o-Xylene			140	140	130	79	130	140	200
Vinyl Chloride	0.2	0.02	100	100	110	54	110	100	82
Total VOCs	NSE	NSE	2,521	2,336	2,434	1,457	2,325	1,814	2,037

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			10/14	11/14	01/15	02/15	03/15	04/15	05/15
			Pace	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	12.5	12	14	12.0	6.3	<4.7	<7.4
Chloroethane	400	80	223	100	280	170	190	97	140
Dichlorodifluoromethane	1,000	200	<140	9.4	<5.6	<3.4	<2.3	<4.7	<6.9
1,1-Dichloroethane	850	85	91.4	54	80	70	100	70	83
1,1-Dichloroethene	7	0.7	11.9	7.5	<4.5	4.5	8.3	6.7	7.7
1,2-Dichloroethane	5	0.5	2.9	<8.4	<5.3	<4.1	3.0	<5.0	<8.2
1,2-Dichloropropane	5	0.5	3.1	<7.3	<4.6	<2.7	<3.6	<7.2	<5.4
cis-1,2-Dichloroethylene	70	7	471	250	150	160	310	220	250
trans-1,2-Dichloroethylene	100	20	9.7	<7.0	5.6	4.2	5.1	<4.4	<6.3
Ethylbenzene	700	140	110	180	140	45	41	<4.4	<5.6
Isopropyl Ether	NSE	NSE	5.7	<5.8	11	6.7	8.3	<5.2	<5.9
Methylene Chloride	5	0.5	<1.2	<8.9	<5.6	<3.2	3.7	<4.5	<6.3
Styrene	100	10	<2.5	3.9	<2.4	<2.3	3.5	<3.8	<4.7
Toluene	800	160	322	320	300	150	99	13	16
Trichloroethylene	5	0.5	3.1	<6.0	<3.8	<3.8	<2.1	<4.2	<7.6
1,2,4-Trimethylbenzene	480	96	2.5	6.0	7.1	5.1	4.5	<4.2	<5.2
m-&p-Xylene	2,000	400	444	460	580	360	360	190	160
o-Xylene			122	120	200	100	130	66	96
Vinyl Chloride	0.2	0.02	66.8	44	39	40	65	49	60
Total VOCs	NSE	NSE	1,902	1,567	1,807	1,128	1,338	712	813

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			06/15	07/15	08/15	09/15	10/15	11/15	12/15
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	8.1	8.9	7.4	7.7	7.6	11	<2.9
Chloroethane	400	80	110	93	92	130	77	91	87
Dichlorodifluoromethane	1,000	200	4.6	<2.8	<2.8	<3.1	2.6	2.8	<2.8
1,1-Dichloroethane	850	85	50	37	38	40.5	41	42	37
cis-1,2-Dichloroethylene	70	7	93	31	16	9.76	6.5	6.6	5.4
trans-1,2-Dichloroethylene	100	20	2.9	<2.5	<2.5	<2.7	2.1	<2.5	<2.5
Ethylbenzene	700	140	61	45	43	48.3	53	110	<2.2
Isopropyl Ether	NSE	NSE	5.3	6.5	6.3	4.82	3.6	6.1	5.2
Methylene Chloride	5	0.5	<1.8	<2.5	5.0	<2.3	2.1	7.0	<2.5
Styrene	100	10	<1.5	<1.9	<1.9	<2.1	<1.5	<1.9	<1.9
Toluene	800	160	93	64	43	49.7	39	71	<1.8
Trichloroethylene	5	0.5	2.9	3.5	4.8	2.51	<1.7	<3.1	<3.1
1,2,4-Trimethylbenzene	480	96	4.8	5.2	5.9	4.8	5.3	7.1	<2.1
1,3,5-Trimethylbenzene			<2.1	<2.6	<2.6	1.85	<2.1	<2.6	<2.6
m-&p-Xylene	2,000	400	240	250	260	318	280	370	84
o-Xylene			82	76	65	90.9	71	96	58
Vinyl Chloride	0.2	0.02	26	14	9.2	7.72	6.7	7.5	6.9
Total VOCs	NSE	NSE	784	634	596	717	598	828	284

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Lab						
			1/16	3/16	04/16	05/16	05/16	06/16	07/16
			NLS	NLS	NLS	Pace	NLS	NLS	NLS
Benzene	5	0.5	23	8.0	8.8	10.8	12.0	9.9	9.6
Chloroethane	400	80	140	120	53	73.4	53	50	57
Dichlorodifluoromethane	1,000	200	<2.8	4.3	4.2	<1.1	<2.8	<3.3	3.3
1,1-Dichloroethane	850	85	51	71	31	39.9	36	34	44
cis-1,2-Dichloroethylene	70	7	9.0	21	6.7	7.9	6.7	8.7	7.6
trans-1,2-Dichloroethylene	100	20	3.4	3.6	<1.7	2.3	<2.9	<3.4	1.9
Ethylbenzene	700	140	290	34	190	262	280	220	130
Isopropyl Ether	NSE	NSE	8.6	5.1	3.9	3.6	5.1	4.5	3.9
Isopropylbenzene	-	-	2.9	<1.9	<44	1.6	<3.4	<3.7	<1.7
Methylene Chloride	5	0.5	2.8	<2.4	<2.4	<1.2	<4.0	<4.7	<2.0
Styrene	100	10	<1.9	<1.9	<1.9	<2.5	3.7	<3.7	<1.6
Toluene	800	160	170	56	61	65.7	89	50	35
Trichloroethylene	5	0.5	<3.1	<3.2	<3.2	3.2	<4.7	<6.5	3.3
1,2,4-Trimethylbenzene	480	96	12	5.6	6.1	3.5	4.9	6.8	6.9
1,3,5-Trimethylbenzene			4.0	<2.1	<2.1	<2.5	<4.0	<4.3	2.6
m-&p-Xylene	2,000	400	460	290	240	348	350	250	260
o-Xylene			190	92	83	85.3	98	53	59
Vinyl Chloride	0.2	0.02	11	19	7.4	8.3	10	8.5	10
Total VOCs	NSE	NSE	1,378	730	695	916	948	695	634

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			08/16	09/16	10/16	11/16	12/16	01/17	02/17
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	12	11	11	8.7	11	9.8	11
Chloroethane	400	80	79	69	52	57	60	59	68
Dichlorodifluoromethane	1,000	200	<1.7	<1.7	4.0	<2.1	3.3	3.7	<1.7
1,1-Dichloroethane	850	85	50	42	47	46	39	39	47
cis-1,2-Dichloroethylene	70	7	11	8.3	9.0	8.2	8.7	8.9	10
trans-1,2-Dichloroethylene	100	20	2.9	2.3	2.3	<2.1	<2.1	<2.1	2.5
Ethylbenzene	700	140	120	130	190	75	170	150	180
Isopropyl Ether	NSE	NSE	6.6	6.3	4.7	5.5	5.4	4.4	5.4
Toluene	800	160	25	28	34	29	45	49	58
Trichloroethylene	5	0.5	3.5	<3.2	2.4	<4.0	<4.0	<4.0	<3.0
1,2,4-Trimethylbenzene	480	96	7.7	6.5	6.8	7.1	6.4	6.0	6.5
1,3,5-Trimethylbenzene			2.7	2.4	2.2	<2.7	<2.7	<2.7	<2.5
m-&p-Xylene	2,000	400	310	270	270	330	250	230	300
o-Xylene			71	71	75	90	78	80	94
Vinyl Chloride	0.2	0.02	13	11	15	12	12	13	17
Total VOCs	NSE	NSE	714	658	725	669	689	653	799

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			03/17	04/17	05/17	06/17	07/17	08/17	09/17
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Benzene	5	0.5	11	8.0	11	8.8	9.1	6.4	12
Chloroethane	400	80	63	53	55	55	57	58	76
Dichlorodifluoromethane	1,000	200	2.5	<1.7	<2.1	<2.0	<1.7	<1.7	<1.4
1,1-Dichloroethane	850	85	46	48	42	39	38	40	72
cis-1,2-Dichloroethylene	70	7	9.7	8.8	9.7	8.3	8.0	6.3	11
trans-1,2-Dichloroethylene	100	20	2.4	2.5	2.4	<2.1	1.9	1.9	3.0
Ethylbenzene	700	140	140	86	200	85	100	62	160
Isopropyl Ether	NSE	NSE	5.4	5.5	5.4	4.8	4.7	4.6	6.0
Toluene	800	160	42	26	44	25	27	21	42
Trichloroethylene	5	0.5	<4.0	3.2	<4.0	<4.0	<3.2	<3.2	<2.4
1,2,4-Trimethylbenzene	480	96	6.4	6.7	6.3	6.8	6.5	7.5	7.1
1,3,5-Trimethylbenzene			<2.7	<2.5	<2.7	<2.7	<2.1	<2.1	3.0
m-&p-Xylene	2,000	400	320	280	270	280	270	320	400
o-Xylene			87	79	79	80	88	89	150
Vinyl Chloride	0.2	0.02	18	19	17	18	19	20	33
Total VOCs	NSE	NSE	753	626	742	611	629	637	975

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			10/17	11/17	12/17	01/18	02/18	03/18	04/18
			NLS	NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	<42	<42	<42	<42	59	<42	<42
Benzene	5	0.5	8.5	12	5.8	4.7	2.4	6.5	6.9
Chloroethane	400	80	57	62	67	110	73	63	56
Dichlorodifluoromethane	1,000	200	3.1	2.9	1.9	3.5	2.4	<1.7	3.8
1,1-Dichloroethane	850	85	40	30	69	78	49	38	28
cis-1,2-Dichloroethylene	70	7	13.0	6.9	11	25	20	7.2	5.9
trans-1,2-Dichloroethylene	100	20	2.1	2.1	3.3	3.6	2.8	2.3	1.9
Ethylbenzene	700	140	130	260	88	45	3.0	18	27
Isopropyl Ether	NSE	NSE	3.5	5.3	5.2	4.8	3.9	4.1	3.6
Isopropyl Alcohol (2-Propanol)	3,000 ⁽²⁾		<44	<44	<44	<44	<44	70	<44
Toluene	800	160	29	48	24	17	4.3	17	13
Trichloroethylene	5	0.5	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2
1,2,4-Trimethylbenzene	480	96	4.5	7.4	4.2	3.2	<2.1	4.0	5.1
1,3,5-Trimethylbenzene			<2.1	2.2	<2.1	<2.1	<2.1	<2.1	<2.1
m-&p-Xylene	2,000	400	220	300	230	160	85	240	240
o-Xylene			76	120	110	79	65	100	96
Vinyl Chloride	0.2	0.02	22	19	38	44	35	25	21
Total VOCs	NSE	NSE	609	878	657	578	405	595	508

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			05/18	06/18	07/18	08/18	09/18	10/18	11/18
			ALS	NLS	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	3.5	<42	10.1	<9.2	<9.2	<9.2	<9.2
Benzene	5	0.5	16	4.7	2.0	6.1	6.3	4.5	4.9
Chloroethane	400	80	76	80	63.1	70.2	37.5	53.1	55.9
Dichlorodifluoromethane	1,000	200	<0.13	<1.7	NA	NA	NA	NA	NA
1,2-Dicholobenzene	600	60	1.2	<2.1	0.53	0.78	0.81	0.68	0.77
1,1-Dichloroethane	850	85	23	63	38.0	39.2	19.3	31.5	41.5
1,2-Dichloroethane	5	0.5	<0.17	<2.2	0.75	0.80	<0.22	0.70	0.74
cis-1,2-Dichloroethylene	70	7	5.1	17	10.5	7.2	4.1	5.6	6.2
trans-1,2-Dichloroethylene	100	20	2.4	<1.7	2.3	2.3	1.2	2.0	2.3
Ethylbenzene	700	140	460	30	1.2	25.6	53.4	11.9	16.9
Isopropyl Ether	NSE	NSE	6.2	4.6	NA	NA	NA	NA	NA
Isopropyl Alcohol (2-Propanol)	3,000 ⁽²⁾		N/A	<44	NA	NA	NA	NA	NA
Isopropylbenzene	NSE	NSE	2.5	<1.9	NA	NA	NA	NA	NA
p-Isopropyltoluene	NSE	NSE	0.44	<1.8	NA	NA	NA	NA	NA
Methylene Chloride	5	0.5	1.0	<2.4	<0.98	1.1	<0.98	<0.98	<0.98
Methyl Ethyl Ketone	4,000	800	<0.58	<5.7	1.6	2.0	<0.99	<0.99	<0.99
Naphthalene	100	10.0	0.72	<4.3	NA	NA	NA	NA	NA
n-Propylbenzene	NSE	NSE	1.4	<2.1	NA	NA	NA	NA	NA
Tetrachloroethylene	5	0.5	<0.27	<2.2	<0.17	<0.17	<0.17	0.44	<0.17
Toluene	800	160	34	6.7	2.4	14.0	11.2	4.0	6.9
Trichloroethylene	5	0.5	<0.30	<3.2	2.5	1.9	2.4	2.3	2.0
1,2,4-Trimethylbenzene	480	96	10	2.2	0.92	4.8	7.2	4.9	6.1
1,3,5-Trimethylbenzene			3.8	<2.1	1.5	2.4	2.2	2.2	2.6
Vinyl Chloride	0.2	0.02	19	34	18.7	21.2	12.6	14.3	19.6
Xylenes (total)	2,000	400	870	210	145	372	335	327	393
Total VOCs	NSE	NSE	1,536	452	301	572	493	465	559

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)						
			12/18	01/19	02/19	03/19	04/19	05/19	09/20
			Pace	Pace	Pace	Pace	Pace	Pace	Pace
Benzene	5	0.5	5.1	5.0	7.9	6.3	5.5	6.6	3.0
Chloroethane	400	80	58.3	37.8	40.4	51.5	70.6	58.0	50.1
1,2-Dicholobenzene	600	60	0.73	0.68	0.75	0.78	1.1	1.1	0.58
1,1-Dichloroethane	850	85	22.6	22.6	20.6	28.8	54.3	47.4	40.4
1,2-Dichloroethane	5	0.5	0.43	0.62	0.31	0.58	<0.22	0.87	0.91
1,1-Dichloroethene	7	0.7	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	4.2
cis-1,2-Dichloroethylene	70	7	4.2	5.0	4.6	4.8	9.4	7.8	125
trans-1,2-Dichloroethylene	100	20	1.7	2.2	1.4	2.0	2.4	3.7	3.0
1,2-Dichloropropane	5	0.5	NA	NA	NA	NA	NA	NA	0.84
Ethylbenzene	700	140	35.5	18.0	163	33.3	54.7	53.5	44.1
Isopropylbenzene (Cumene)	NSE	NSE	NA	NA	NA	NA	NA	NA	0.36
Methylene Chloride	5	0.5	<0.98	<0.98	<0.98	<0.98	1.3	1.1	<1.1
4-Methyl-2-pentanone (MIBK)	500	50	<0.42	0.98	<0.42	0.73	<0.42	0.80	<0.54
Tetrachloroethylene	5	0.5	<0.17	0.29	<0.17	<0.17	<0.17	<0.17	0.69
Toluene	800	160	8.7	9.9	27.0	11.4	15.8	12.2	18.2
Trichloroethylene	5	0.5	2.2	2.0	2.1	2.1	1.8	2.4	4.1
1,2,4-Trimethylbenzene	480	96	6.2	6.6	7.2	7.3	8.2	7.1	3.0
1,3,5-Trimethylbenzene			2.1	2.1	2.2	2.6	3.1	2.9	1.5
Vinyl Chloride	0.2	0.02	13.8	11.5	10	13.2	23.4	16.5	30.5
Xylenes (total)	2,000	400	382	387	349	459	488	511	232
Total VOCs	NSE	NSE	544	512	636	624	740	733	562

TABLE B-3

SUMMARY OF DETECTED COMPOUNDS IN RW-7 (AUGUST 2012 THROUGH DECEMBER 2020)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			10/20	11/20	12/20			
			Pace	Pace	Pace			
Benzene	5	<i>0.5</i>	2.8	5.5	<i>3.1</i>			
Chloroethane	400	80	34.8	39.7	61.4			
1,2-Dicholobenzene	600	<i>60</i>	<0.71	0.76	<0.71			
1,1-Dichloroethane	850	85	21.0	30.0	32.7			
1,2-Dichloroethane	5	<i>0.5</i>	<i>0.76</i>	<i>0.68</i>	<i>0.70</i>			
1,1-Dichloroethene	7	<i>0.7</i>	<i>1.3</i>	<0.24	<i>0.84</i>			
cis-1,2-Dichloroethylene	70	7	29.8	<i>11.3</i>	<i>30.1</i>			
trans-1,2-Dichloroethylene	100	20	1.6	2.5	3.1			
1,2-Dichloropropane	5	<i>0.5</i>	<0.28	<0.28	0.28			
Ethylbenzene	700	<i>140</i>	9.2	<i>156</i>	31.3			
Isopropylbenzene (Cumene)	NSE	NSE	<1.7	<1.7	<1.7			
Methylene Chloride	5	<i>0.5</i>	<i>0.79</i>	<0.58	<i>0.85</i>			
4-Methyl-2-pentanone (MIBK)	500	<i>50</i>	<4.6	<4.6	<4.6			
Tetrachloroethylene	5	<i>0.5</i>	<0.33	<0.33	<0.33			
Toluene	800	<i>160</i>	14.9	31.9	10.3			
Trichloroethylene	5	<i>0.5</i>	<i>3.1</i>	<i>2.1</i>	<i>2.7</i>			
1,2,4-Trimethylbenzene	480	96	2.9	4.3	1.8			
1,3,5-Trimethylbenzene			1.5	2.2	1.8			
Vinyl Chloride	0.2	<i>0.02</i>	11.8	7.4	19.8			
Xylenes (total)	2,000	<i>400</i>	258	337	168			
Total VOCs	NSE	NSE	394	631	369			

NOTES:

Concentrations are in micrograms per liter (µg/l), equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

RW-7 was restarted on July 20, 2012, after being off since December 2003.

Samples were analyzed for a full suite of VOCs using Method 8260. Only compounds detected in one or more samples are listed on this table.

Each subsection of this table includes only those compounds detected in one or more samples collected during the range of dates shown.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTES:

(1) Indicates that this compound was not detected (ND) before October 2012; the detection limits are only indicated for those compounds for samples collected in or after October 2012.

(2) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR recommends using the health advisory limit of 3,000 ppb based on a 10⁶ cancer risk per <http://dnr.wi.gov/topic/drinkingwater/documents/halttable.pdf> - May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-4

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-7

Sample Date or Month/Yr ⁽¹⁾	Meter Reading Date or Month/Yr ⁽²⁾	Total Volume of Water Pumped (gallons)	Total VOC Concentration ⁽³⁾ (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
10/90	07/91	66,517	1,235,300	686	686
11/94	12/94	76,809	48,675	55	741
05/95	09/95	158,443	2,648	17	758
10/95	12/95	190,077	155,000	21	779
04/96	12/96	213,177	219,870	36	815
05/97	12/97	496,097	83,770	358	1,174
05/98	05/98	1,803,747	117,732	1,099	2,273
12/99	12/99	6,298,347	113,868	4,343	6,616
05/00	05/00	7,446,677	468,520	2,790	9,406
04/01	04/01	9,744,876	103,380	5,484	14,890
05/02	07/02	13,042,926	142,110	3,378	18,268
05/03	06/03	15,597,896	39,230	1,933	20,201
	12/03	16,764,486	39,230	382	20,583
08/12	08/12	16,926,286	1,817	2.5	20,585
09/12	09/12	17,399,006	1,317	6.2	20,591
10/12	10/12	17,452,046	2,540	0.9	20,592
11/12	11/12	17,706,026	1,330	4.1	20,596
12/12	12/12	18,200,706	1,088	5.0	20,601
01/13	01/13	18,651,326	299	2.6	20,604
02/13	02/13	19,004,996	2,471	4.1	20,608
03/13	03/13	19,483,716	2,164	9.3	20,617
04/13	04/13	19,922,956	1,435	6.6	20,624
05/13	05/13	20,315,976	1,770	5.3	20,629
06/13 ⁽⁴⁾	06/13	20,675,016	1,621	5.1	20,634
07/13	07/13	21,082,656	1,789	5.8	20,640
08/13	08/13	21,559,286	2,311	8.2	20,648
09/13	09/13	22,056,306	2,185	9.3	20,658
10/13 - 1	10/15/13	22,255,316	2,085	3.5	20,661
10/13 - 2	10/30/13	22,457,976	1,953	3.4	20,665
11/13	11/13/13	22,623,686	2,241	2.9	20,667
12/13	12/09/13	22,900,716	2,056	5.0	20,672
01/14	01/14/14	23,378,656	2,946	10.0	20,682
02/14	02/20/14	23,817,156	2,990	10.9	20,693

TABLE B-4

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-7

Sample Date or Month/Yr ⁽¹⁾	Meter Reading Date or Month/Yr ⁽²⁾	Total Volume of Water Pumped (gallons)	Total VOC Concentration ⁽³⁾ (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
03/14	02/28/14	23,910,206	2,521	2.1	20,695
	04/01/14	24,719,830	2,336	16.4	20,712
05/14	05/06/14	25,101,860	2,434	7.6	20,719
07/14	07/09/14	25,861,100	1,457	12.3	20,732
08/14	08/05/14	26,224,990	2,325	5.7	20,737
09/14	09/09/14	26,615,520	1,814	6.7	20,744
10/14	10/31/14	27,159,530	1,970	8.6	20,753
11/14	11/12/14	27,275,280	1,567	1.7	20,754
01/15	01/07/15	27,665,630	1,807	5.5	20,760
02/15	02/04/15	28,097,040	1,128	5.3	20,765
03/15	03/11/15	28,560,750	1,338	4.8	20,770
04/15	04/09/15	29,016,560	712	3.9	20,774
05/15	05/05/15	29,473,180	813	2.9	20,777
06/15	06/03/15	29,771,250	784	2.0	20,779
07/15	07/08/15	29,927,790	634	0.9	20,780
08/04/15	08/04/15	30,069,120	596	0.7	20,780
09/09/15	09/09/15	30,249,650	717	1.0	20,781
10/14/15	10/14/15	30,465,380	598	1.2	20,783
11/04/15	11/04/15	30,583,550	828	0.7	20,783
12/03/15	12/03/15	30,760,560	284	0.8	20,784
01/16/16	01/05/16	30,954,720	1,378	1.3	20,785
03/16/16	03/02/16	31,548,740	730	5.2	20,791
04/05/16	04/05/16	31,705,040	695	0.9	20,792
05/04/16	05/04/16	31,809,010	948	0.7	20,792
06/16/16	06/07/16	31,954,260	695	1.0	20,793
07/12/16	07/12/16	32,128,620	634	1.0	20,794
08/10/16	08/10/16	32,263,240	714	0.8	20,795
09/06/16	09/06/16	32,383,000	658	0.7	20,796
10/05/16	10/05/16	32,517,840	725	0.8	20,797
11/03/16	11/03/16	32,657,080	669	0.8	20,797
12/06/16	12/06/16	32,816,300	689	0.9	20,798
01/09/17	01/09/17	33,014,490	653	1.1	20,799
02/07/17	02/07/17	33,130,990	799	0.7	20,800
03/08/17	03/08/17	33,264,980	753	0.9	20,801
04/05/17	04/05/17	33,404,500	626	0.8	20,802
05/02/17	05/02/17	33,541,920	742	0.8	20,803
06/06/17	06/06/17	33,719,870	611	1.0	20,804

TABLE B-4

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-7

Sample Date or Month/Yr ⁽¹⁾	Meter Reading Date or Month/Yr ⁽²⁾	Total Volume of Water Pumped (gallons)	Total VOC Concentration ⁽³⁾ (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
07/11/17	07/11/17	33,894,390	629	0.9	20,804
08/08/17	08/08/17	34,017,330	637	0.6	20,805
09/07/17	09/07/17	34,084,400	975	0.5	20,806
10/04/17	10/04/17	34,308,830	609	1.5	20,807
11/07/17	11/07/17	34,415,550	878	0.7	20,808
12/06/17	12/06/17	34,542,430	657	0.8	20,808
01/09/18	01/09/17	35,022,540	578	2.5	20,811
02/07/18	02/07/18	35,467,410	405	1.8	20,813
03/07/18	03/07/18	35,761,340	595	1.2	20,814
04/05/18	04/05/18	35,995,470	508	1.1	20,815
05/10/18	05/10/18	36,041,010	1,536	0.4	20,815
06/05/18	06/05/18	36,397,880	452	3.0	20,818
07/10/18	07/10/18	36,902,510	301	1.6	20,820
08/02/18	08/02/18	37,131,360	572	0.8	20,821
09/11/18	09/11/18	37,462,440	493	1.5	20,822
10/03/18	10/03/18	37,657,070	465	0.8	20,823
11/06/18	11/06/18	37,921,190	559	1.1	20,824
12/04/18	12/04/18	38,097,330	544	0.8	20,825
01/09/19	01/09/19	38,317,590	512	1.0	20,826
02/14/19	02/14/19	38,549,830	636	1.1	20,827
03/05/19	03/05/19	38,651,770	624	0.5	20,828
04/04/19	04/04/19	38,877,220	740	1.3	20,829
05/07/19	10/31/19	39,179,550	733	1.9	20,831
09/02/20	09/30/20	41,071,570	562	10.2	20,841
10/07/20	10/07/20	41,390,990	394	1.3	20,842
11/11/20	11/30/20	41,678,760	631	1.2	20,844
12/02/20	12/31/20	42,038,640	369	1.5	20,845

TABLE B-4

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-7NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$), equivalent to parts per billion (ppb).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 3).

For 07/11/17-06/23/20, add 29,967,780 gal to raw meter readings to calculate adjusted total volume pumped.

For dates after 06/23/20, add 39,967,780 gal to raw meter readings to calculate adjusted total volume pumped.

RW-7 was shut down for new pump installation during August 19 through September 5, 2017.

FOOTNOTES:

(1) Meter readings before 2012 were often not recorded when samples were collected. In those cases, the next available meter reading was used to calculate the incremental mass of VOCs removed.

(2) The volume of water pumped prior to July 2012 was calculated using a combination of meter readings and monthly discharge reports prepared by WRR. There was a 462,634-gallon discrepancy between the calculated volume of water pumped through December 2003 and the actual meter reading on July 20, 2012, before RW-7 was restarted. To account for the discrepancy during that time period, the total VOC concentrations measured in RW-7 in June 2004 were used even though there is no record of RW-7 operating between December 2003 and July 2012. Records of RW-7 operational history are not complete.

(3) Total VOC concentrations for October 1990 are based on a lab report of samples analyzed by WRR's laboratory. Total VOC concentrations for November 1994 through May 1995 are based on Table 10 of Eder Associates' December 1996 *RCRA Facility Investigation* report; total VOC concentration for 11/94 is based on average of VOC concentrations measured in 5/94 (2,074 ppb), 11/94 (143,000 ppb), & 12/94 (951 ppb). Total VOC concentrations for May 1997 through April 2001 are based on Table A-3 included with SEH's September 2001 *Evaluation of Supplement Corrective Measures and Plan of Activities* report. Total VOC concentrations for May 2002 are based on Table 4 prepared and provided by WRR (unpublished, likely an update of Table 2 of SEH's September 2001 report). Total VOC concentrations for May 2003 are based on concentrations measured in nearby well W-21 (RW-7 not sampled in 2003).

(4) Two influent samples were collected from RW-7 on 6/11/13 and analyzed for VOCs by Northern Lakes Services and Pace Analytical Services. The average of the total VOCs was used to calculate the mass of VOCs removed in June 2013.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/14	09/15	10/15	11/15	11/15	12/15
			Pace	NLS	NLS	NLS	Pace	NLS
Acetone	9,000	1,800	6,860	57,600	57,000	58,000	71,200	35,000
1,1-Dichloroethane	850	85	26.9	<480	<410	<490	<151	<490
cis-1,2-Dichloroethylene	70	7.0	272	<510	<450	<600	<160	<600
Ethylbenzene	700	140	658	908	<350	820	625	760
Methylene Chloride	5	0.5	<11.6	<460	550	1,300	398	<510
Methyl Ethyl Ketone	4,000	800	8,600	68,900	53,000	59,000	46,800	26,000
4-Methyl-2-Pentanone (MIBK)	500	50	<107	1,240	1,000	2,100	1,490	960
Isopropyl Alcohol	3,000 ⁽¹⁾		5,680	11,600	22,000	21,000	19,500	<12,000
Styrene	100	10	49.6	<420	<310	<370	<312	<370
Tetrachloroethylene	5	0.5	179	<530	<440	<430	<312	<430
Toluene	800	160	11,900	20,500	17,000	17,000	16,500	17,000
1,1,1-Trichloroethane	200	40	1,420	1,490	1,400	1,400	1,190	1,300
1,1,2-Trichloroethane	5	0.5	17.6	<440	<390	<480	<123	<480
Trichloroethylene	5	0.5	847	840	890	1,100	809	920
m-&p-Xylene	2,000	400	2,160	3,570	2,300	2,600	1,910	2,300
o-Xylene			575	922	610	670	462	670
Total VOCs	NSE	NSE	39,245	167,570	155,750	164,990	160,884	84,910

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			01/16	05/16		06/16	07/16	08/16
			NLS	Pace	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	48,000	64,900	28,000	80,000	47,000	60,000
cis-1,2-Dichloroethylene	70	7.0	<600	276	<350	<470	<350	<470
Ethylbenzene	700	140	920	571	630	920	<600	1,100
Methylene Chloride	5	0.5	<510	463	<400	580	<400	<470
Methyl Ethyl Ketone	4,000	800	59,000	78,400	30,000	72,000	32,000	51,000
4-Methyl-2-Pentanone (MIBK)	500	50	1,700	1,550	<790	1,700	1,500	2,300
Isopropyl Alcohol	3,000 ⁽¹⁾		15,000	24,500	<9,900	21,000	16,000	25,000
Tetrachloroethylene	5	0.5	<430	<250	1,100	<440	<330	<440
Toluene	800	160	16,000	14,000	9,700	18,000	15,000	15,000
1,1,1-Trichloroethane	200	40	1,200	831	820	1,400	1,100	1,500
Trichloroethylene	5	0.5	810	589	580	690	780	970
m-&p-Xylene	2,000	400	2,500	2,050	1,700	2,800	2,200	3,100
o-Xylene			670	513	400	670	660	870
Total VOCs	NSE	NSE	145,800	188,643	72,930	199,760	116,240	160,840

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			09/16	10/16	11/16	12/16	01/17	02/17
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	51,000	62,000	67,000	60,000	49,000	37,000
cis-1,2-Dichloroethylene	70	7.0	<470	390	<470	<470	<470	300
Ethylbenzene	700	140	840	<600	1,700	1,400	820	660
Methylene Chloride	5	0.5	<470	530	490	<470	610	400
Methyl Ethyl Ketone	4,000	800	42,000	37,000	80,000	65,000	33,000	28,000
4-Methyl-2-Pentanone (MIBK)	500	50	2,000	1,300	2,000	1,900	1,500	1,700
Isopropyl Alcohol	3,000 ⁽¹⁾		17,000	23,000	9,000	18,000	13,000	<6200
Toluene	800	160	16,000	23,000	26,000	20,000	14,000	15,000
1,1,1-Trichloroethane	200	40	1,300	1,900	2,100	1,900	1,200	1,100
Trichloroethylene	5	0.5	810	1,200	1,100	<650	690	730
m-&p-Xylene	2,000	400	2,600	5,500	5,200	4,200	2,400	2,100
o-Xylene			730	1,400	1,500	1,000	630	590
Total VOCs	NSE	NSE	134,280	157,220	196,090	173,400	116,850	87,580

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			03/17	04/17	05/17	06/17	07/17	08/17
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	46,000	43,000	49,000	40,000	30,000	28,000
cis-1,2-Dichloroethylene	70	7.0	<300	330	350	300	<300	<300
Ethylbenzene	700	140	1,600	1,800	1,500	980	970	830
Methylene Chloride	5	0.5	410	400	410	430	370	360
Methyl Ethyl Ketone	4,000	800	73,000	37,000	38,000	49,000	30,000	36,000
4-Methyl-2-Pentanone (MIBK)	500	50	1,800	1,500	2,300	2,000	990	1,400
Isopropyl Alcohol	3,000 ⁽¹⁾		32,000	21,000	12,000	14,000	9,500	11,000
Tetrachloroethylene	5	0.5	<280	220	<280	<280	<280	<280
Toluene	800	160	21,000	21,000	17,000	15,000	14,000	15,000
1,1,1-Trichloroethane	200	40	1,300	1,800	1,500	1,000	1,100	1,100
Trichloroethylene	5	0.5	920	1,100	760	680	730	700
m-&p-Xylene	2,000	400	4,800	5,400	4,600	3,000	2,600	2,600
o-Xylene			1,300	1,500	1,200	810	740	750
Total VOCs	NSE	NSE	184,130	136,050	128,620	127,200	91,000	97,740

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			09/17	10/17	11/17	12/17	01/18	02/18
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	31,000	26,000	33,000	59,000	74,000	37,000
cis-1,2-Dichloroethylene	70	7.0	270	<300	300	<300	390	<300
Ethylbenzene	700	140	<380	780	870	1,100	1,300	950
Methylene Chloride	5	0.5	290	300	340	440	700	390
Methyl Ethyl Ketone	4,000	800	28,000	30,000	33,000	92,000	50,000	55,000
4-Methyl-2-Pentanone (MIBK)	500	50	1,100	1,300	1,100	2,000	800	1,000
Isopropyl Alcohol	3,000 ⁽¹⁾		7,700	7,500	9,800	25,000	17,000	26,000
Tetrachloroethylene	5	0.5	<210	<280	<280	<280	<280	<280
Toluene	800	160	14,000	12,000	14,000	18,000	19,000	14,000
1,1,1-Trichloroethane	200	40	1,100	950	920	1,000	1,300	600
Trichloroethylene	5	0.5	800	550	610	620	830	430
m-&p-Xylene	2,000	400	2,500	2,400	2,800	3,300	4,100	2,900
o-Xylene			640	720	770	950	1,100	910
Total VOCs	NSE	NSE	87,400	82,500	97,510	203,410	170,520	139,180

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			03/18	04/18	05/18	06/18	07/18	08/18
			NLS	NLS	NLS	NLS	Pace	Pace
Acetone	9,000	1,800	60,000	39,000	74,000	87,000	99,100	80,100
Benzene	5	0.5	<300	<300	<240	<600	13.2	15.8
Chloroform	6	0.6	<280	<280	<210	<550	<44.8	49.5
1,1-Dichloroethane	850	85	<240	<240	<230	<470	<17.0	39.3
cis-1,2-Dichloroethylene	70	7.0	340	310	280	<590	403	499
Ethylbenzene	700	140	900	1,100	770	660	1,560	1,680
Methylene Chloride	5	0.5	440	360	500	<590	516	727
Methyl Ethyl Ketone	4,000	800	66,000	11,000	91,000	97,000	134,000	123,000
4-Methyl-2-Pentanone (MIBK)	500	50	680	<670	1,500	<1,300	1,650	1,690
Methyl-tert-butyl ether	60	12	<260	<260	<270	<510	30.2	29.2
Isopropyl Alcohol	3,000 ⁽¹⁾		23,000	9,100	54,000	33,000	N/A	N/A
Tetrachloroethylene	5	0.5	<280	<280	<210	<550	122	150
Toluene	800	160	13,000	14,000	14,000	12,000	19,100	20,300
1,1,1-Trichloroethane	200	40	710	850	<220	<490	929	1,140
Trichloroethylene	5	0.5	<400	<400	460	<810	752	759
1,2,4-Trimethylbenzene	480	96	<260	<260	<230	<520	98.9	114
1,3,5-Trimethylbenzene			<270	<270	<250	<530	32.5	39.8
Vinyl Chloride	0.2	0.02	<210	<210	<200	<430	<9.2	29.6
m-&p-Xylene	2,000	400	2,700	3,300	2,500	2,200	6,750	7,320
o-Xylene			940	1,000	790	690		
Total VOCs	NSE	NSE	168,710	80,020	239,800	232,550	265,057	237,682

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			09/18	10/18	11/18	07/19	08/19	09/19
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	84,800	66,900	56,500	77,400	44,300	55,400
Chloroform	6	0.6	<89.6	<89.6	123	<89.6	<89.6	<44.8
1,1-Dichloroethane	850	85	<34.0	34.5	<42.5	<34.0	<34.0	27.1
1,2-Dichloroethane	5	0.5	<43.6	<43.6	<54.4	49.1	<43.6	<21.8
cis-1,2-Dichloroethylene	70	7.0	277	352	217	346	218	279
Ethylbenzene	700	140	1,280	1,430	1,040	1,400	974	1,050
Methylene Chloride	5	0.5	628	448	440	488	340	284
Methyl Ethyl Ketone	4,000	800	113,000	99,000	85,900	101,000	68,000	66,300
4-Methyl-2-Pentanone (MIBK)	500	50	1,490	1,310	1,070	1,020	651	500
Methyl-tert-butyl ether	60	12	<32.2	<32.2	<40.2	119	<32.2	20.8
Tetrachloroethylene	5	0.5	199	255	<42.5	250	140	95.1
Toluene	800	160	15,900	18,100	13,800	11,600	10,900	13,500
1,1,1-Trichloroethane	200	40	701	942	635	820	614	703
Trichloroethylene	5	0.5	584	754	478	610	450	567
1,2,4-Trimethylbenzene	480	96	68.5	106	87.3	112	60.5	67.9
1,3,5-Trimethylbenzene			24.6	43.4	<30.5	36.0	<24.4	20.0
Xylenes (total)	2,000	400	5,360	6,330	4,780	5,690	4,040	4,350
Total VOCs	NSE	NSE	224,312	196,005	165,070	200,940	130,688	143,164

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			10/19	11/19	12/19	01/20	04/20	05/20
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	51,700	48,000	48,900	30,000	39,800	34,700
Benzene	5	0.5	<10.2	<10.2	15.8	<20.4	<12.0	<24.0
1,1-Dichloroethane	850	85	<17.0	25.5	79.5	<34.0	<16.6	<33.2
cis-1,2-Dichloroethylene	70	7.0	258	226	1,280	242	218	234
Ethylbenzene	700	140	1,000	1,000	4,220	1,220	1,030	1,080
Isopropyl Alcohol (2-Propanol)	3,000 ⁽¹⁾		NA	<1,140	50,700	9,000	10,800	9,150
Isopropylbenzene (Cumene)	NSE	NSE	NA	<18.5	78.2	<37.0	<13.1	<26.2
Methylene Chloride	5	0.5	249	234	335	384	275	638
Methyl Ethyl Ketone	4,000	800	59,800	46,100	59,880	47,900	67,100	50,700
4-Methyl-2-Pentanone (MIBK)	500	50	517	590	779	498	429	456
Styrene	100	10	NA	43.5	99.6	51.2	43.9	37.5
Tetrachloroethylene	5	0.5	<17.0	65.6	181	81.7	128	77.0
Toluene	800	160	14,100	12,300	48,700	11,700	11,500	12,400
1,1,1-Trichloroethane	200	40	641	606	1,310	712	713	644
Trichloroethylene	5	0.5	434	437	582	490	436	537
1,2,4-Trimethylbenzene	480	96	46.3	51.4	283	95.4	64.4	82.2
1,3,5-Trimethylbenzene			<12.2	16.5	93.3	30.7	19.2	25.8
Xylenes (total)	2,000	400	4,550	4,600	22,500	5,050	4,820	4,600
Total VOCs	NSE	NSE	133,295	114,296	240,016	107,455	137,377	115,362

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/20	07/20	08/20	09/20	10/20	11/20
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	30,000	54,000	18,000	20,400	18,300	21,700
Benzene	5	0.5	8.26	6.4	24.7	5.3	<12.3	<49.3
Carbon Tetrachloride	5	0.5	<3.20	<0.17	<3.4	<3.4	73.3	<215
Chlorobenzene	NSE	NSE	<2.90	3.2	3.0	2.7	<35.5	<142
Chloroethane	400	80	<4.80	<0.42	26.7	<8.5	<67.1	<268
Chloroform	6	0.6	6.65	3.8	14.1	<9.7	<63.7	<255
1,2-Dichlorobenzene	600	60	<2.68	1.3	<2.7	<2.7	<35.3	<141
1,1-Dichloroethane	850	85	30.5	24.8	217	23.0	<13.6	<54.5
1,2-Dichloroethane	5	0.5	<2.05	4.9	34.6	<5.1	<14.0	<56.0
1,1-Dichloroethene	7	0.7	6.82	3.6	39.4	<2.5	<12.2	<49.0
cis-1,2-Dichloroethylene	70	7.0	257	244	1,240	222	224	221
trans-1,2-Dichloroethylene	100	20	<3.73	0.76	<3.8	<3.8	<23.2	<92.8
1,2-Dichloropropane	5	0.5	<3.73	2.8	12.3	<2.8	<14.1	<56.6
Ethylbenzene	700	140	1,260	940	1,440	873	701	817
Isopropyl Alcohol (2-Propanol)	3,000 ⁽¹⁾		9,370	11,400	25,400	10,300	6,800	7,430
Isopropylbenzene (Cumene)	NSE	NSE	19.9	14.7	18.4	13.8	<84.3	<337
Methylene Chloride	5	0.5	271	110	407	103	70.0	<116
Methyl Ethyl Ketone	4,000	800	46,900	86,200	21,800	31,700	27,600	31,800
4-Methyl-2-Pentanone (MIBK)	500	50	475	499	2,410	329	<232	<927
Methyl-tert-butyl ether	60	12	12.1	14.0	12.4	9.2	<62.3	<249
Naphthalene	100	10	<25.0	10.1	19.7	<13.6	<58.8	<235
Styrene	100	10	44.7	41.4	41.5	30.8	<150	<602
Tetrachloroethylene	5	0.5	95.9	42.9	106	14.7	17.3	<65.3
Toluene	800	160	11,500	16,800	20,000	9,750	8,420	9,350
1,1,1-Trichloroethane	200	40	802	570	912	562	568	465
1,1,2-Trichloroethane	5	0.5	10.2	10.5	33.6	9.2	<27.8	<110
Trichloroethylene	5	0.5	628	415	584	470	354	408
1,2,4-Trimethylbenzene	480	96	102	88.4	119	78.9	54.0	<168
1,3,5-Trimethylbenzene			27.7	25.4	34.0	21.8	54.1	<175
Vinyl Chloride	0.2	0.02	<5.85	2.5	69.4	2.7	<8.7	<34.9
Xylenes (total)	2,000	400	5,100	4,030	6,030	3,910	3,250	3,630
Total VOCs	NSE	NSE	106,928	175,509	99,049	78,831	66,486	75,821

TABLE B-5

SUMMARY OF DETECTED COMPOUNDS IN RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration ($\mu\text{g}/\text{l}$)					
			12/20	06/21	07/21	09/21	10/21	11/21
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	<i>1,800</i>	30,500	10,300	11,000	40,500	22,100	27,800
1,1-Dichloroethane	850	<i>85</i>	<54.5	<59.1	30.7	41.4	33.4	33.5
cis-1,2-Dichloroethene	70	<i>7</i>	216	218	288	374	392	275
Ethylbenzene	700	<i>140</i>	937	960	1,170	1,400	1,260	754
Isopropyl Alcohol (2-Propanol)	3,000⁽¹⁾		9,360	6,950	8,220	21,500	7,440	10,800
Methylene Chloride	5	<i>0.5</i>	<116	114	142	138	137	103
Methyl Ethyl Ketone	4,000	<i>800</i>	42,500	24,300	30,300	53,600	31,600	33,500
Styrene	100	<i>10</i>	<602	<71.3	79.6	<35.6	<35.6	59
Tetrachloroethene	5	<i>0.5</i>	<65.3	<81.7	61.1	169.0	125.0	44
Toluene	800	<i>160</i>	10,400	11,100	14,200	16,800	15,500	9,850
1,1,1-Trichloroethane	200	<i>40</i>	567	511	692	870	736	401
1,1,2-Trichloroethane	5	<i>0.5</i>	<110	<68.9	<34.4	<34.4	<34.4	<34.4
Trichloroethene	5	<i>0.5</i>	421	447	638	774	642	349
1,2,4-Trimethylbenzene	480	<i>96</i>	<190	<89.7	94.8	109	113	54.1
1,3,5-Trimethylbenzene			<175	<71.5	36	49.5	36.6	<35.7
Xylenes (total)	2,000	<i>400</i>	4,310	4,580	5,130	6,370	6,010	3,640
Total VOCs	NSE	NSE	99,211	59,480	72,082	142,695	86,125	87,662

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\text{l}$), equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

Some reported values fall below the Limit of Quantitation set by the lab.

Each subsection of this table includes only those compounds detected in one or more samples collected during the range of dates shown.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR has recommended using the health advisory limit of 3,000 ppb based on a 10^{-6} cancer risk per <http://dnr.wi.gov/topic/drinkingwater/documents/halttable.pdf> dated May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-6

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-10

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
12/14 ⁽¹⁾	12/14	51,993	39,246	17	17
09/15	09/15	217,334	167,570	143	160
10/15	10/15	333,585	155,750	157	317
11/15	11/15	397,324	106,990	70	386
12/15	12/15	487,178	84,910	72	458
01/16	01/16	598,127	145,800	107	565
04/16 ⁽²⁾	04/16	617,381	145,800	23	589
05/16	05/16	720,975	188,643	145	733
06/16	06/16	818,393	199,760	158	891
07/12/16	07/12/16	934,309	116,240	153	1,044
08/10/16 ⁽³⁾	08/10/16	1,051,221	160,840	135	1,179
09/06/16	09/06/16	1,156,341	134,280	129	1,308
10/05/16	10/05/16	1,320,502	157,220	200	1,508
11/03/16	11/03/16	1,492,470	196,090	253	1,762
12/06/16	12/06/16	1,669,297	173,400	273	2,034
01/09/17	01/09/17	1,809,591	116,850	170	2,204
02/07/17	02/07/17	1,893,329	87,580	71	2,275
03/08/17	03/08/17	1,966,638	184,130	83	2,359
04/05/17 ⁽⁴⁾	04/05/17	2,100,973	136,050	179	2,538
05/02/17	05/02/17	2,236,807	128,620	150	2,688
06/06/17	06/06/17	2,420,597	127,200	196	2,884
07/11/17	07/11/17	2,602,490	91,000	166	3,050
08/08/17	08/08/17	2,720,801	97,740	93	3,143
09/07/17	09/07/17	2,849,291	87,400	99	3,242
10/04/17	10/04/17	2,946,888	82,500	69	3,311
11/07/17 ⁽⁴⁾	11/07/17	3,052,373	97,510	79	3,391
12/06/17	12/06/17	3,124,083	203,410	90	3,481
01/09/18	01/09/18	3,165,187	170,520	64	3,545
02/07/18	02/07/18	3,181,935	139,180	22	3,566
03/07/18	03/07/18	3,196,945	168,710	19	3,586
04/10/18	04/10/18	3,221,204	80,020	25	3,611
05/03/18	05/03/18	3,247,345	239,800	35	3,646
06/05/18	06/05/18	3,272,083	232,550	49	3,694
07/10/18	07/10/18	3,303,607	265,057	65	3,760
08/02/18	08/02/18	3,327,516	237,682	50	3,810

TABLE B-6

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-10

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
09/11/18	09/11/18	3,373,561	224,312	89	3,899
10/03/18	10/03/18	3,406,136	196,005	57	3,956
11/06/18	11/06/18	3,440,864	165,070	52	4,008
07/10/19	07/10/19	3,468,646	200,940	42	4,051
08/06/19	08/06/19	3,530,476	130,688	86	4,136
09/04/19	09/04/19	3,581,675	143,164	58	4,195
10/02/19	10/31/19	3,665,998	133,295	97	4,292
11/13/19	11/13/19	3,673,669	114,296	8	4,300
12/04/19	12/04/19	3,673,714	240,016	0	4,300
01/09/20	01/09/20	3,706,982	107,455	48	4,348
04/07/20	04/07/20	3,735,438	137,377	29	4,377
05/04/20	05/04/20	3,767,078	115,362	33	4,411
06/02/20	06/02/20	3,783,574	106,928	15	4,426
07/07/20	07/07/20	3,825,177	175,509	49	4,475
08/04/20	08/04/20	3,847,997	99,049	26	4,501
09/02/20	09/02/20	3,879,304	78,831	23	4,524
10/07/20	10/07/20	3,911,447	66,486	19	4,544
11/11/20	11/30/20	3,932,816	75,821	13	4,556
12/02/20	12/02/20	3,932,880	99,211	0	4,557
06/08/21	06/08/21	3,948,770	59,480	9	4,565
07/13/21	07/13/21	3,955,000	72,082	3	4,569
09/14/21	09/14/21	3,962,850	142,695	7	4,576
10/26/21	10/26/21	3,985,890	86,125	22	4,598
11/03/21	11/30/21	3,993,430	87,662	5	4,603

TABLE B-6

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-10

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$), equivalent to parts per billion (ppb).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 7).

FOOTNOTES:

(1) RW-10 was installed and sampled in December 2014 but did not start pumping until July 24, 2015.

(2) The meter for RW-10 froze on several occasions during the winter of 2015-16, even though the well was still operating. As a result of the meter freezing, the total gallons of water pumped by RW-10 cannot be accurately determined. The total flow meter reading shown for April 2016 was the meter reading measured on April 30, 2016, and is likely significantly less than the total volume of water pumped by RW-10 since it was originally started on July 24, 2015. Additionally, no samples were collected from RW-10 between January and April 30, 2016, so the total concentration of VOCs measured in January 2016 were used to calculate the mass of VOCs removed between January and April 2016.

(3) The meter was reset on 8/1/16 after the meter reading (1,018,730 gal.) was recorded. All meter readings between August 2016 and March 2017 shown on this table were calculated by adding 1,018,730 gallons to the meter reading measured in the field.

(4) The meter was reset again on March 20, 2017, after reading 1,000,666 gallons. With previous adjustments, the meter readings after March 20, 2017, are calculated by adding 2,019,396 to the raw meter readings. The meter rolled over again in October 2017, so the amount added to raw reading increased to 3,019,396 in November 2017.

(5) The meter for RW-10 was changed on March 26, 2021. The raw meter reading on March 25, 2021, was 913,964. The raw meter reading on the newly installed pump was 395,741 when it was installed. **Raw meter readings for RW-10 after March 26, 2021, need to be multiplied by 10 as indicated on the meter, and then adjusted by subtracting 24,050 gallons**, which is the sum of 3,019,396 (see Note #4) and 913,964 (to account for old meter reading on 3/25/21) and then subtracting 3,957,410 gallons (the reading on then newly installed meter on 3/26/21) to determine the total volume since RW-10 started operating on July 25, 2015.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

TABLE B-7

SUMMARY OF DETECTED COMPOUNDS IN RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			12/14	06/15	07/15	08/15	09/15	10/15	11/15	12/15
			Pace	Pace	NLS	NLS	NLS	NLS	NLS	NLS
1,2-Dichlorobenzene	600	60	74.0	<50.0	<160	<230	<60	<120	<140	<140
1,1-Dichloroethane	850	85	189	173	250	<250	<240	220	<200	<200
cis-1,2-Dichloroethylene	70	7	1,830	1,930	2,500	2,200	2,410	2,100	1,800	1,800
Ethylbenzene	700	140	4,240	1,670	1,400	970	1,610	<140	780	430
Isopropylbenzene (Cumene)	NSE	NSE	47.6	22.1	<190	<240	<290	<150	<190	<190
Methylene Chloride	5	0.5	<23.3	<23.3	<180	400	<230	<140	330	<200
n-Propylbenzene	NSE	NSE	69.9	<50.0	<180	<270	<260	<150	<210	<210
Tetrachloroethylene	5	0.5	62.9	77.8	<220	<210	<270	<170	<170	<170
Toluene	800	160	16,300	8,250	9,900	8,700	11,600	7,900	7,900	6,800
Trichloroethene	5	0.5	<33.1	92.8	<170	<310	<180	<130	<240	<240
1,1,1-Trichloroethane	200	40	362	420	670	570	687	540	480	490
1,2,4-Trimethylbenzene	480	96	551	271	240	220	<280	160	170	<160
1,3,5-Trimethylbenzene			150	110	<210	<260	108	<160	<210	<210
m-&p-Xylene	2,000	400	14,100	5,830	5,200	3,900	6,650	3,400	3,700	3,300
o-Xylene			4,770	2,270	1,800	1,400	2,310	1,300	1,400	1,200
Vinyl chloride	0.2	0.02	<17.6	67	<160	<160	<200	<160	<120	<120
Total VOCs	NSE	NSE	42,746	21,184	21,960	18,360	25,375	15,620	16,560	14,020

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			1/16	3/16	4/16	5/16		6/16	7/16	8/16
			NLS	NLS	NLS	Pace	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	ND	ND	ND	2,030	2,600	1,900	<5,200	<5,200
1,1-Dichloroethane	850	85	200	190	190	266	300	330	340	270
cis-1,2-Dichloroethylene	70	7	1,800	1,600	1,600	2,060	2,500	2,800	2,800	2,000
1,2-Dichloropropane	5	0.5	ND	ND	ND	13	<95	<110	<300	<350
Ethylbenzene	700	140	640	130	290	368	600	730	<380	1,200
Methyl Ethyl Ketone	4000	800	ND	ND	ND	1,880	910	650	<630	<710
Isopropyl Alcohol	3,000 ⁽¹⁾		ND	ND	ND	1,390	<2000	<1,800	<6,200	<5,500
Toluene	800	160	7,300	9,900	4,800	6,820	7,800	7,500	18,000	11,000
Trichloroethene	5	0.5	<240	<160	<130	<16.5	<94	<130	490	<400
1,1,1-Trichloroethane	200	40	590	430	530	612	900	860	1,300	790
1,2,4-Trimethylbenzene	480	96	170	110	180	229	180	280	<230	270
1,3,5-Trimethylbenzene			<210	<110	<85	90.8	80	96	<250	<270
m-&p-Xylene	2,000	400	1,400	2,000	4,000	5,210	5,500	5,700	5,600	5,800
o-Xylene			4,300	840	1,400	1,840	1,800	1,800	1,900	1,800
Vinyl chloride	0.2	0.02	<120	<85	<68	64.0	<64	92	<200	<210
Total VOCs	NSE	NSE	16,400	15,200	12,990	22,873	23,170	22,738	30,430	23,130

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			9/16	10/16	11/16	12/16	01/17	02/17	03/17	04/17
			NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS
1,1-Dichloroethane	850	85	220	300	320	310	250	250	200	280
cis-1,2-Dichloroethylene	70	7	1,500	1,800	1,800	1,500	1,400	1,600	1,100	1,500
Ethylbenzene	700	140	1,000	<300	1,200	560	580	<240	890	890
Toluene	800	160	11,000	13,000	12,000	9,400	7,800	9,800	8,900	11,000
Trichloroethene	5	0.5	<320	<240	<320	<320	<320	250	<260	260
1,1,1-Trichloroethane	200	40	610	910	870	870	770	820	630	890
1,2,4-Trimethylbenzene	480	96	<210	240	220	<210	<210	<150	200	210
1,3,5-Trimethylbenzene			<210	<200	<210	<210	<210	<160	<170	<160
m-&p-Xylene	2,000	400	5,100	5,300	4,900	3,800	3,200	3,600	4,100	4,600
o-Xylene			1,600	1,800	1,700	1,400	1,100	1,300	1,300	1,500
Total VOCs	NSE	NSE	21,030	23,350	23,010	17,840	15,100	17,620	17,320	21,130

TABLE B-7

SUMMARY OF DETECTED COMPOUNDS IN RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			05/17	06/17	07/17	08/17	09/17	10/17	11/17	12/17
			NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS
1,1-Dichloroethane	850	85	270	200	270	230	240	260	280	240
cis-1,2-Dichloroethylene	70	7	1,800	1,300	1,800	1,300	1,600	1,600	1,800	1,400
Ethylbenzene	700	140	1,200	790	990	1,100	<300	1,000	850	780
Methyl Ethyl Ketone	4000	800	1,700	1,400	1,400	<570	<500	<570	<570	710
Toluene	800	160	11,000	8,500	10,000	11,000	11,000	11,000	12,000	9,900
Trichloroethene	5	0.5	<260	<260	<260	<320	<240	<320	<320	<320
1,1,1-Trichloroethane	200	40	1,000	710	960	740	780	690	840	710
1,2,4-Trimethylbenzene	480	96	230	<170	<170	<210	<180	<210	<210	<210
1,3,5-Trimethylbenzene			<170	<170	<170	<210	<200	<210	<210	<210
m-&p-Xylene	2,000	400	4,700	2,600	3,200	3,300	3,400	3,800	3,600	3,200
o-Xylene			1,600	860	1,100	1,000	1,200	1,200	1,300	1,100
Total VOCs	NSE	NSE	23,500	16,360	19,720	18,670	18,220	19,550	20,670	18,040

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18
			NLS	NLS	NLS	Pace	Pace	Pace	Pace	Pace
Benzene	5	0.5	<240	<190	<240	11.2	9.2	5.0	6.7	<5.1
Chloroethane	400	80	<930	<1,500	<930	15.1	<24.5	<12.2	<24.5	<24.5
Chloroform	6	0.6	<220	<170	<220	1.6	<22.4	<11.2	<22.4	<22.4
1,2-Dichlorobenzene	600	60	<210	<220	<210	18.4	14.5	12.8	<6.8	<6.8
1,3-Dichlorobenzene	600	120	<200	<200	<200	0.67	<8.0	<4.0	<8.0	<8.0
1,4-Dichlorobenzene	75	15	<270	<210	<270	1.9	<8.4	<4.2	<8.4	<8.4
1,1-Dichloroethane	850	85	210	200	280	208	233	127	179	243
1,2-Dichloroethane	5	0.5	<220	<190	<220	3.1	<10.9	<5.4	<10.9	<10.9
1,1-Dichloroethene	7	0.7	<200	<160	<200	10.4	<8.0	<4.0	<8.0	<8.0
cis-1,2-Dichloroethylene	70	7	1,200	1,100	2,000	1,850	1,940	880	1,160	1,400
trans-1,2,-Dichloroethylene	100	20	<170	<150	<170	2.6	<5.8	<2.9	<5.8	<11.8
Ethylbenzene	700	140	1,500	760	940	1,390	1,250	624	554	266
Methylene Chloride	5	0.5	<240	<200	<240	<98.0	103	<24.5	<49.0	<49.0
Methyl Ethyl Ketone	4000	800	<570	<500	<570	<99.2	<49.6	<24.8	<49.6	<49.6
Methyl-tert-butyl ether	60	12	<210	<220	<210	0.98	<8.0	<4.0	<8.0	<8.0
Tetrachloroethene	5	0.5	<220	<170	<220	69.4	59.6	28.3	36.2	22.9
Toluene	800	160	11,000	8,400	11,000	12,800	12,100	6,890	6,690	5,670
1,1,1-Trichloroethane	200	40	670	570	1,000	999	1,010	388	395	677
1,1,2-Trichloroethane	5	0.5	<200	<170	<200	28.3	19.2	8.0	15.8	<9.0
Trichloroethene	5	0.5	<320	260	<320	208	136	55.9	84.4	69.3
1,2,4-Trimethylbenzene	480	96	<210	<180	<210	278	307	196	189	223
1,3,5-Trimethylbenzene			<210	<200	<210	105	92.3	58.7	56.6	65.8
Vinyl chloride	0.2	0.02	<170	<160	<170	57.2	66.0	23.1	25.8	68.1
Xylenes (total)	2,000	400	6,500	4,400	5,000	7,690	8,010	4,380	4,570	5,310
Total VOCs	NSE	NSE	21,080	15,690	20,220	25,749	25,350	13,677	13,963	14,015

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
			12/18	01/19	02/19	03/19	04/19	05/19	06/19	07/19
			Pace	Pace	Pace	Pace	Pace	Pace	Pace	Pace
Benzene	5	0.5	4.2	6.8	<5.1	<5.1	9.4	<10.2	5.9	<10.2
Chloroethane	400	80	34.4	24.9	<24.5	52.2	41.1	<49.0	<24.5	<49.0
Chloroform	6	0.6	<9.0	<11.2	<22.4	<22.4	<11.2	<44.8	23.0	<44.8
1,2-Dichlorobenzene	600	60	9.3	9.0	<6.8	10.5	11.3	<13.7	<6.8	<13.7
1,3-Dichlorobenzene	600	120	<3.2	<4.0	<8.0	<8.0	<4.0	<16.1	<8.0	<16.1
1,4-Dichlorobenzene	75	15	<3.4	<4.2	<8.4	<8.4	<4.2	<16.9	<8.4	<16.9
1,1-Dichloroethane	850	85	218	173	184	141	181	238	235	237
1,2-Dichloroethane	5	0.5	<4.4	<5.4	<10.9	<10.9	<4.4	<21.8	<10.9	<21.8
1,1-Dichloroethene	7	0.7	6.9	<4.0	<8.0	<8.0	<4.0	<15.9	<8.0	<15.9
cis-1,2-Dichloroethylene	70	7	1,180	1,080	1,080	903	1,170	1,510	1,580	1,580
trans-1,2,-Dichloroethylene	100	20	<4.7	7.8	<11.8	<11.8	<5.9	<23.7	<11.8	<23.7
Ethylbenzene	700	140	116	188	199	128	1,670	1,880	1,740	1,290
Methylene Chloride	5	0.5	<19.6	<24.5	<49.0	<49.0	<24.5	<98.0	<49.0	<98.0
Methyl Ethyl Ketone	4000	800	<19.8	<24.8	<49.6	<49.6	<24.8	<99.2	<49.6	<99.2
Methyl-tert-butyl ether	60	12	<3.2	<4.0	<8.0	<8.0	<4.0	<16.1	<8.0	<16.1
Tetrachloroethene	5	0.5	11.0	19.5	13.8	<8.5	45.3	56.6	<8.5	<17.0
Toluene	800	160	3,970	4,890	5,240	3,750	11,300	13,400	11,700	11,400
1,1,1-Trichloroethane	200	40	525	589	460	296	650	851	793	738
1,1,2-Trichloroethane	5	0.5	13.6	12.7	<9.0	<9.0	14.5	<18.0	<9.0	<18.0
Trichloroethene	5	0.5	53.0	69.8	59.6	43.3	252	347	261	107
1,2,4-Trimethylbenzene	480	96	179	196	186	173	313	312	264	262
1,3,5-Trimethylbenzene			61.4	55.8	51.0	52.8	92.0	97.8	77.1	80.0
Vinyl chloride	0.2	0.02	77.1	74.7	<4.6	34.9	59.5	57.0	58.2	53.5
Xylenes (total)	2,000	400	4,630	4,790	4,390	3,610	7,150	7,920	7,420	5,950
Total VOCs	NSE	NSE	11,089	12,187	11,863	9,195	22,959	26,669	24,157	21,698

TABLE B-7

SUMMARY OF DETECTED COMPOUNDS IN RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)								
			08/19	09/19	10/19	11/19	12/19	01/20	02/20	03/20	
			Pace	Pace	Pace	Pace	Pace	Pace	Pace	Pace	
Benzene	5	0.5	5.9	<10.2	<10.2	<10.2	<10.2	3.3	10.3	<5.1	16.9
Chloroethane	400	80	18.5	<49.0	<49.0	<49.0	<49.0	15.2	40.5	<24.5	34.2
1,2-Dichlorobenzene	600	60	10.5	<13.7	<13.7	<13.7	<13.7	5.2	14.1	<6.8	10.3
Dichlorodifluoromethane	1,000	200	NA	NA	NA	<23.4	<5.8	16.4	17.2	<11.7	<11.7
1,1-Dichloroethane	850	85	192	252	234	235	96.9	294	252	245	245
1,2-Dichloroethane	5	0.5	4.6	<21.8	<21.8	<21.8	<5.4	<10.9	<10.9	<10.9	<10.9
1,1-Dichloroethene	7	0.7	5.7	<15.9	<15.9	<15.9	<4.0	13.2	<8.0	<8.0	<8.0
cis-1,2-Dichloroethylene	70	7	1,350	1,770	1,570	1,590	693	1,960	1,720	1,630	1,630
trans-1,2,-Dichloroethylene	100	20	2.4	<23.7	<23.7	<23.7	<5.9	<11.8	<11.8	<11.8	<11.8
Ethylbenzene	700	140	674	1,700	1,690	931	645	1,960	1,440	1,550	1,550
Isopropylbenzene (Cumene)	NSE	NSE	NA	NA	NA	<18.5	17.5	38.5	32.4	39.4	39.4
Methylene Chloride	5	0.5	10.9	<98.0	<149	<149	<37.2	<74.5	<74.5	<74.5	<74.5
Methyl Ethyl Ketone	4000	800	25.8	<99.2	<99.2	<99.2	<24.8	<49.6	<49.6	<49.6	<49.6
Naphthalene	100	10	NA	NA	NA	<164	<41.0	137	<82.0	<82.0	<82.0
Tetrachloroethene	5	0.5	10	<17.0	<17.0	<17.0	6.5	40.6	23.0	30.1	30.1
Toluene	800	160	7,810	13,800	13,300	10,600	4,650	13,100	10,800	12,400	12,400
1,1,1-Trichloroethane	200	40	464	866	674	682	307	976	805	760	760
1,1,2-Trichloroethane	5	0.5	17.6	<18.0	<18.0	<18.0	7.3	21.3	<9.0	15.6	15.6
Trichloroethene	5	0.5	54.8	90.6	79.8	151	33.1	254	136	148	148
1,2,4-Trimethylbenzene	480	96	214	231	210	188	116	324	177	253	253
1,3,5-Trimethylbenzene			61.6	72.0	56.5	61.1	35.1	89.3	48.1	82.4	82.4
Vinyl chloride	0.2	0.02	31.2	81.9	59.7	73.6	33.2	132	109	116	116
Xylenes (total)	2,000	400	4,920	7,640	7,880	6,550	2,320	8,100	7,060	6,780	6,780
Total VOCs	NSE	NSE	15,884	26,504	25,754	21,062	8,984	27,521	22,620	24,050	24,050

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)								
			04/20	05/20	06/20	07/20	08/20	09/20	10/20	11/20	
			Pace	Pace	Pace	Pace	Pace	Pace	Pace	Pace	
Acetone	9,000	1,800	<126	107	<226	354	73.2	60.9	<343	<343	
Benzene	5	0.5	7.5	5.3	7.47	9.8	9.3	5.9	<30.8	<30.8	
Chlorobenzene	NSE	NSE	NA	<1.9	<2.32	<3.8	2.4	<1.5	<88.9	<88.9	
Chloroethane	400	80	27.3	13.4	24.9	31.9	174	18.9	<168	<168	
1,2-Dichlorobenzene	600	60	<6.8	10.2	15.0	<6.8	24.2	18.7	<88.2	<88.2	
Dichlorodifluoromethane	1000	200	15.0	<4.9	<7.48	<9.8	<3.9	<3.9	<62.4	<62.4	
1,1-Dichloroethane	850	85	250	168	255	296	382	283	312	260	
1,2-Dichloroethane	5	0.5	<12.7	<6.4	4.57	<12.7	<5.1	<5.1	<35.0	<35.0	
1,1-Dichloroethene	7	0.7	<6.3	<3.2	8.39	<6.3	12.7	8.0	<30.6	<30.6	
cis-1,2-Dichloroethylene	70	7	1,640	1,220	1,750	2,060	1,290	2,060	2,050	1,610	
1,2-Dichloropropane	5	0.5	<7.0	<3.5	19.4	<7.0	18.4	16.9	<35.3	<35.3	
Ethylbenzene	700	140	1,830	1,310	1,970	2,210	2,770	1,920	2,060	713	
Isopropylbenzene (Cumene)	NSE	NSE	33.8	25.9	37.1	41.6	54.5	39.1	<211	<211	
Methylene Chloride	5	0.5	<55.0	<27.5	<8.60	<55.0	<22.0	23.0	<72.6	<72.6	
Naphthalene	100	10	<34.0	28.6	34.0	62.3	75.8	43.6	<147	<147	
Styrene	100	10	52.0	37.4	56.1	63.1	76.7	47.8	<376	<376	
Tetrachloroethene	5	0.5	31.6	22.8	19.4	<8.7	<3.5	14.5	<40.8	<40.8	
Toluene	800	160	12,400	9,850	12,300	20,300	16,800	12,700	15,500	7,650	
1,1,1-Trichloroethane	200	40	749	514	692	770	221	626	678	494	
1,1,2-Trichloroethane	5	0.5	13.3	14.2	21.4	<9.6	13.2	21.2	<69.0	<69.0	
Trichloroethene	5	0.5	181	124	109	90.3	3.7	68.0	198	<31.9	
1,2,4-Trimethylbenzene	480	96	244	234	331	359	489	327	327	279	
1,3,5-Trimethylbenzene			67.8	67.3	88.8	101	126	87.2	<109	<109	
Vinyl chloride	0.2	0.02	122	71.2	80.8	130	372	124	202	145	
Xylenes (total)	2,000	400	8,360	5,800	7,950	9,250	12,100	8,460	9,130	6,520	
Total VOCs	NSE	NSE	26,024	19,516	25,774	35,775	35,015	26,913	30,457	17,671	

TABLE B-7

SUMMARY OF DETECTED COMPOUNDS IN RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)

Compound	CAS #	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
				12/20	01/21	02/21	03/21	04/21	05/21	06/21	07/21
				Pace	Pace	Pace	Pace	Pace	Pace	Pace	Pace
Acetone	67-64-1	9,000	1,800	<343	<343	<126	<343	<1,080	<1,080	<1,080	<346
Benzene	71-43-2	5	0.5	<30.8	<30.8	<6.0	<30.8	<36.9	<36.9	<36.9	<11.8
Chlorobenzene	108-90-7	NSE	NSE	<88.9	<88.9	<3.8	<88.9	<107	<107	<107	<34.2
Chloroethane	75-00-3	400	80	<168	<168	<21.1	<168	<172	<172	<172	<55.2
1,2-Dichlorobenzene	95-50-1	600	60	<88.2	<88.2	<6.8	<88.2	<40.7	<40.7	<40.7	<13.0
Dichlorodifluoromethane	75-71-8	1000	200	<62.4	<62.4	<9.8	<62.4	<56.9	<56.9	<56.9	<18.2
1,1-Dichloroethane	75-34-3	850	85	263	237	198	200	158	180	184	241
1,2-Dichloroethane	107-06-2	5	0.5	<35.0	<35.0	<12.7	<35.0	<36.4	<36.4	<36.4	<11.7
1,1-Dichloroethene	75-35-4	7	0.7	<30.6	<30.6	<6.3	<30.6	<72.8	<72.8	<72.8	<23.3
cis-1,2-Dichloroethylene	156-59-2	70	7	1,190	1,190	930	833	796	1,010	1,000	1,250
1,2-Dichloropropane	78-87-5	5	0.5	<35.3	<35.3	<7.0	<35.3	<56.0	<56.0	<56.0	<17.9
Ethylbenzene	100-41-4	700	140	348	742	535	1,000	1,300	1,400	1,310	1,330
Isopropylbenzene (Cumene)	98-82-8	NSE	NSE	<211	<211	10.8	<211	<125	<125	<125	<40.0
Methylene Chloride	75-09-2	5	0.5	<72.6	<72.6	<55.0	<72.6	<39.9	<39.9	<39.9	21.0
Naphthalene	91-20-3	100	10	<147	<147	<34.0	d	<141	<141	<141	<45.2
Styrene	100-42-5	100	10	<376	<376	20.2	<376	<44.5	<44.5	<44.5	<14.3
Tetrachloroethene	127-18-4	5	0.5	<40.8	<40.8	<8.7	<40.8	<51.1	<51.1	<51.1	<16.3
Toluene	108-88-3	800	160	5,150	7,460	5,760	6,770	7,710	7,060	5,280	5,070
1,1,1-Trichloroethane	71-55-6	200	40	332	320	258	276	218	307	205	149
1,1,2-Trichloroethane	79-00-5	5	0.5	<69.0	<69.0	<9.6	<69.0	<43.1	<43.1	<43.1	<13.8
Trichloroethene	79-01-6	5	0.5	<31.9	<31.9	<7.4	<31.9	97.1	60.2	<40.0	<12.8
1,2,4-Trimethylbenzene	95-63-6	480	96	243	230	244	212	195	247	251	277
1,3,5-Trimethylbenzene	108-67-8			<109	<109	67.0	<109	66.8	70.4	69.7	68.4
Vinyl chloride	75-01-4	0.2	0.02	105	152	147	138	131	157	107	128
Xylenes (total)	1330-20-7	2,000	400	5,060	5,530	4,870	4,750	5,810	6,160	5,580	5,270
Total VOCs		NSE	NSE	12,691	15,861	13,040	14,179	16,482	16,652	13,987	13,804

Compound	CAS #	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)							
				08/21	09/21	10/21	11/21				
				Pace	Pace	Pace	Pace				
Acetone	67-64-1	9,000	1,800	<346	<346	<346	<346				
Benzene	71-43-2	5	0.5	<11.8	<11.8	<11.8	<11.8				
Chlorobenzene	108-90-7	NSE	NSE	<34.2	<34.2	<34.2	<34.2				
Chloroethane	75-00-3	400	80	<55.2	<55.2	<55.2	<55.2				
1,2-Dichlorobenzene	95-50-1	600	60	17.9	16.4	<13.0	<13.0				
Dichlorodifluoromethane	75-71-8	1000	200	<18.2	<18.2	<18.2	<18.2				
1,1-Dichloroethane	75-34-3	850	85	433	394	299	300				
1,2-Dichloroethane	107-06-2	5	0.5	<11.7	<11.7	<11.7	<11.7				
1,1-Dichloroethene	75-35-4	7	0.7	<23.3	<23.3	<23.3	<23.3				
cis-1,2-Dichloroethylene	156-59-2	70	7	1,760	1,940	1,590	1,290				
1,2-Dichloropropane	78-87-5	5	0.5	<17.9	<17.9	<17.9	<17.9				
Ethylbenzene	100-41-4	700	140	2,070	1,890	1,540	1,370				
Isopropylbenzene (Cumene)	98-82-8	NSE	NSE	51.5	41.3	<40.0	<40.0				
Methylene Chloride	75-09-2	5	0.5	<12.8	<12.8	<12.8	<12.8				
Naphthalene	91-20-3	100	10	<45.2	<45.2	<45.2	<45.2				
Styrene	100-42-5	100	10	<14.3	<14.3	<14.3	<14.3				
Tetrachloroethene	127-18-4	5	0.5	19.7	<16.3	<16.3	<16.3				
Toluene	108-88-3	800	160	7,790	9,050	6,670	5,610				
1,1,1-Trichloroethane	71-55-6	200	40	213	248	147	155				
1,1,2-Trichloroethane	79-00-5	5	0.5	<13.8	<13.8	<13.8	<13.8				
Trichloroethene	79-01-6	5	0.5	23	36	<12.8	34				
1,2,4-Trimethylbenzene	95-63-6	480	96	401	298	252	209				
1,3,5-Trimethylbenzene	108-67-8			90.4	74.3	59.6	59.5				
Vinyl chloride	75-01-4	0.2	0.02	271	223	162	227				
Xylenes (total)	1330-20-7	2,000	400	8,750	7,580	6,610	5,870				
Total VOCs		NSE	NSE	21,891	21,791	17,330	15,124	0	0	0	0

SUMMARY OF DETECTED COMPOUNDS IN RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

Some reported values fall below the Limit of Quantitation set by the lab.

Each subsection of this table includes only those compounds detected in one or more samples collected during the range of dates shown.

ND = Non-Detect

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR has recommended using the health advisory limit of 3,000 ppb based on a 10^6 cancer risk taken from the following website: <http://dnr.wi.gov/topic/drinkingwater/documents/haltable.pdf> - dated May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-8

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-11

Sample Date or Month/Year	Meter Reading Date or Month/Year	Total Volume Pumped (gallons)	FN	Total VOC Concentration (µg/l)	Mass of VOCs Removed	
					Incremental (lb)	Cumulative (lb)
12/14/20	12/14	1,000	(1)	42,492	0.35	0.35
06/15	06/15	37,181		21,184	9.6	10.0
07/15	07/15	91,380		21,960	9.8	19.7
08/15	08/15	95,190		18,360	0.64	20
09/15	09/15	128,466		25,375	6.1	26
10/15	10/15	170,497		15,620	7.2	34
11/15	11/15	193,318		16,560	3.1	37
12/15	12/15	228,625		14,020	4.5	41
01/16	01/16	269,638		16,400	5.2	46
03/16	03/16	316,271	(2)	15,200	6.1	53
04/16	04/16	360,230		12,990	5.2	58
05/16	05/16	394,622		23,170	5.2	63
06/16	06/16	436,170		22,738	8.0	71
07/16	07/16	486,013		30,430	11.1	82
08/16	08/16	532,968		23,130	10.5	92
09/16	09/16	594,066		21,030	11.3	104
10/16	10/16	661,736		23,350	12.5	116
11/16	11/16	724,209		23,010	12.1	128
12/16	12/16	781,096		17,840	9.7	138
01/09/17	01/09/17	821,588		15,100	5.6	144
02/07/17	02/07/17	864,699		17,620	5.9	149
03/08/17	03/08/17	922,126		17,320	8.4	158
04/05/17	04/05/17	996,282		21,130	11.9	170
05/02/17	05/02/17	1,065,904		23,500	13.0	183
06/06/17	06/06/17	1,151,419		16,360	14.2	197
07/11/17	07/11/17	1,235,069		19,720	12.6	209
08/08/17	08/08/17	1,284,518	(3)	18,670	7.9	217
09/07/17	09/07/17	1,359,676		18,220	11.6	229
10/04/17	10/04/17	1,423,277		19,550	10.0	239
11/07/17	11/07/17	1,504,043		20,670	13.6	253
12/06/17	12/06/17	1,568,950		18,040	10.5	263
04/05/18	04/05/18	1,617,853		21,080	8.0	271
05/03/18	05/03/18	1,675,797		15,690	8.9	280
06/05/18	06/05/18	1,740,081		20,220	9.6	290
07/10/18	07/10/18	1,806,774		25,700	12.8	302
08/02/18	08/02/18	1,851,038		25,326	9.4	312

TABLE B-8

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-11

Sample Date or Month/Year	Meter Reading Date or Month/Year	Total Volume Pumped (gallons)	FN	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
					Incremental (lb)	Cumulative (lb)
09/11/18	09/11/18	1,925,126		13,659	12.1	324
10/03/18	10/03/18	1,965,448		13,956	4.6	328
11/06/18	11/06/18	2,024,820		14,015	6.9	335
12/04/18	12/04/18	2,044,792		11,089	2.1	337
01/09/19	01/09/19	2,080,581		12,187	3.5	341
02/14/19	02/14/19	2,110,075		11,863	3.0	344
03/05/19	03/05/19	2,129,186		9,195	1.7	346
04/04/19	04/04/19	2,164,387		22,959	4.7	350
05/07/19	05/07/19	2,208,077		26,669	9.0	359
06/04/19	06/04/19	2,224,165		24,157	3.4	363
07/10/19	07/10/19	2,262,360	(3)	21,698	7.3	370
08/06/19	08/06/19	2,288,174	(4)	15,884	4.0	374
09/04/19	09/04/19	2,331,349		26,504	7.6	382
10/02/19	10/31/19	2,395,301		25,754	13.9	396
11/13/19	11/13/19	2,407,795		21,062	2.4	398
12/04/19	12/04/19	2,433,729		8,984	3.3	401
01/09/20	01/09/20	2,473,698		27,521	6.1	407
02/04/20	02/04/20	2,505,936		22,620	6.7	414
03/03/20	03/03/20	2,541,231		24,050	6.9	421
04/07/20	04/07/20	2,584,962	(5)	26,024	9.1	430
05/04/20	05/04/20	2,615,138	(6)	19,516	5.7	436
06/02/20	06/02/20	2,646,161		25,774	5.9	442
07/07/20	07/07/20	2,684,768		35,775	9.9	452
08/04/20	08/04/20	2,719,926	(7)	35,015	10.4	462
09/02/20	09/02/20	2,744,143	(8)	26,913	6.3	468
10/07/20	10/07/20	2,762,057		30,457	4.3	473
11/11/20	11/30/20	2,801,611		17,671	7.9	481
12/02/20	12/02/20	2,803,425		12,691	0.2	481
01/06/21	01/06/21	2,838,430		15,861	4.2	485
02/02/21	02/02/21	2,867,589		13,040	3.5	488
03/03/21	03/03/21	2,899,064		14,179	3.6	492
04/13/21	04/13/21	2,938,084		16,482	5.0	497
05/04/21	05/04/21	2,957,406		16,652	2.7	500
06/08/21	06/08/21	2,993,045		13,987	4.6	504
07/13/21	07/13/21	3,021,862		13,804	3.3	508
08/03/21	08/03/21	3,035,597		21,891	2.0	510
09/14/21	09/14/21	3,068,269		21,791	6.0	516
10/26/21	10/26/21	3,083,661		17,330	2.5	518
11/03/21	11/30/21	3,099,282		15,124	2.1	520

TABLE B-8

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-11

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$), equivalent to parts per billion (ppb). Volumes are in gallons (gal).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 7).

FM = Flow meter.

FN = Footnote (see below).

RMR = Raw meter reading (see below).

FOOTNOTES:

(1) RW-11 was installed and sampled in December 2014 but did not start pumping until 5/15/15.

(2) Added 281,626 gal to RMR after Feb 2016 to account for periods when the FM froze and was reset in Jan/Feb 2016.

(3) The RW-11 FM was reset 7/31/17, after recording 1,279,733 gal; it was also reset 7/25/19 after recording 1,000,600 gal.

(4) Added 2,280,333 gal to RMR after 7/10/19.

(5) Added 2,310,632 gal to RMR to account for FM not work between 3/13/20 & 4/7/20.

(6) Added 2,311,844 gal to RMR to account for FM not working between 3/13/20 & 4/8/20.

(7) Added 2,325,214 gal to RMR to account for FM not working between 7/24/20 & 8/4/20.

(8) Added 2,729,591 gal; FM not working between 7/27/20 & 9/1/20. Replacement FM had initial RMR of 13,732 gal.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			08/17	10/17	05/18	10/18	02/19	03/19
Acetone	9,000	1,800	69,300	114,000	80,000	24,000	16,900	15,200
Benzene	5	0.5	<200	<500	97	<30	53.6	58.7
2-Butanone (MEK)	4,000	800	16,400	30,100	16,000	3,700	2,630	3,030
n-Butylbenzene	NSE	NSE	<92.0	<500	5.3	<22	NA	NA
Chloroethane	400	80	<150	<375	260	110	<24.5	247
Chloroform	6	0.6	<1,000	<2,500	56	<26	25.6	129
Cyclohexane	NSE	NSE	NA	NA	53	NA	NA	NA
1,2-Dichlorobenzene	600	60	<200	<500	7.4	<27	<6.8	<34.2
1,1-Dichloroethane	850	85	353	774	1,600	710	678	695
1,2-Dichloroethane	5	0.5	<67.2	300	210	<17	104	129
1,1-Dichloroethene	7	0.7	<164	548	250	120	137	136
cis-1,2-Dichloroethene	70	7	2,180	6,790	9,000	4,100	4,660	4,510
trans-1,2-Dichloroethene	100	20	<103	<257	16	<28	<11.8	<59.2
1,2-Dichloropropane	5	0.5	<93.2	<233	92	<25	NA	NA
Ethylbenzene	700	140	1,730	3,700	4,100	2,900	2,560	2,520
2-Hexanone (Methyl Butyl Ketone)	NSE	NSE	NA	NA	26	NA	NA	NA
Isopropyl Ether (Diisopropyl ether)	NSE	NSE	<200	<500	19	<13	NA	NA
Isopropylbenzene	NSE	NSE	<57.3	<143	37	<31	NA	NA
p-Isopropyltoluene	NSE	NSE	<200	<500	2.2	<14	NA	NA
4-Methyl-2-pentanone (MIBK)	500	50	10,200	22,100	6,900	1,600	2,220	2,760
Methyl Acetate	NSE	NSE	NA	NA	59	NA	NA	NA
Methyl Tert-Butyl Ether	60	12	<69.7	<174	6.1	<12	<8.0	<40.2
Methylcyclohexane	NSE	NSE	NA	NA	21	NA	NA	NA
Methylene Chloride	5	0.5	1,520	4,660	2,400	670	891	1,290
Naphthalene	100	10	<1,000	<2,500	26	<18	NA	NA
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		163,000	231,000	NA	25,000	NA	NA
n-Propylbenzene	NSE	NSE	<200	<500	41	<24	NA	NA
Styrene	100	10	<200	<500	34	140	NA	NA
Tetrachloroethene	5	0.5	<200	<500	190	<27	93.2	85.7
Toluene	800	160	38,200	88,400	62,000	20,000	38,100	36,900
Trichloroethene	5	0.5	1,620	2,270	490	190	189	194
1,1,1-Trichloroethane	200	40	1,800	5,170	2,600	1,400	1,690	1,610
1,1,2-Trichloroethane	5	0.5	<79.0	<197	180	<40	68.0	66.0
1,1,2-Trichlorotrifluoroethane	NSE	NSE	NA	NA	560	<20	NA	NA
1,2,4-Trimethylbenzene	480	96	<200	<500	280	200	221	230
1,3,5-Trimethylbenzene			<200	<500	82	<29	63.9	67.1
Vinyl Chloride	0.2	0.02	<70.2	<176	540	280	456	502
Xylenes (Total)	2,000	400	7,290	13,780	14,600	12,000	11,700	10,600
Total VOCs			313,593	523,592	202,840	97,120	83,440	80,960

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			04/19	05/19 ⁽²⁾	06/19	07/19	08/19	09/19
Acetone	9,000	1,800	10,300	9,980	6,730	9,950	8,220	5,990
Benzene	5	0.5	54.4	NA	58.0	99.8	58.0	40.3
2-Butanone (MEK)	4,000	800	<248	2,660	2,560	4,030	2,600	1,860
n-Butylbenzene	NSE	NSE	NA	NA	NA	NA	NA	NA
Chloroethane	400	80	174	NA	85.0	<122	87.0	<122
Chloroform	6	0.6	<112	NA	28.7	<112	28.2	118
Chloromethane	30	3	<38.8	<38.8	<1.6	<38.8	<3.9	<38.8
Cyclohexane	NSE	NSE	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	60	<34.2	NA	4.5	<34.2	4.6	<34.2
1,1-Dichloroethane	850	85	656	NA	581	546	615	527
1,2-Dichloroethane	5	0.5	<54.5	NA	91.8	135	73.8	<54.5
1,1-Dichloroethene	7	0.7	115	NA	125	153	140	81.9
cis-1,2-Dichloroethene	70	7	4,060	NA	3,500	3,160	3,050	2,740
trans-1,2-Dichloroethene	100	20	<59.2	NA	2.4	<59.2	7.5	<59.2
1,2-Dichloropropane	5	0.5	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	140	2,630	NA	2,180	2,510	2,580	2,550
2-Hexanone (Methyl Butyl Ketone)	NSE	NSE	NA	NA	NA	NA	NA	NA
Isopropyl Ether (Diisopropyl ether)	NSE	NSE	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NSE	NSE	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NSE	NSE	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	500	50	3,040	3,520	3,500	3,750	3,150	2,620
Methyl Acetate	NSE	NSE	NA	NA	NA	NA	NA	NA
Methyl Tert-Butyl Ether	60	12	<40.2	NA	13.3	<40.2	10.5	<40.2
Methylcyclohexane	NSE	NSE	NA	NA	NA	NA	NA	NA
Methylene Chloride	5	0.5	992	1,610	926	975	775	647
Naphthalene	100	10	NA	NA	NA	NA	NA	NA
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		NA	NA	NA	NA	NA	NA
n-Propylbenzene	NSE	NSE	NA	NA	NA	NA	NA	NA
Styrene	100	10	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	0.5	114	NA	90.1	137	89.0	<42.5
Toluene	800	160	37,800	NA	33,300	36,000	35,600	39,600
Trichloroethene	5	0.5	268	NA	313	397	375	350
1,1,1-Trichloroethane	200	40	1,600	NA	1,500	1,510	1,570	1,700
1,1,2-Trichloroethane	5	0.5	52.5	NA	66.2	91.9	56.1	<45.0
1,1,2-Trichlorotrifluoroethane	NSE	NSE	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	480	96	189	NA	187	205	189	170
1,3,5-Trimethylbenzene			61.1	NA	59.2	56.9	59.9	69.0
Vinyl Chloride	0.2	0.02	403	NA	274	209	291	263
Xylenes (Total)	2,000	400	10,900	NA	8,380	9,140	9,870	10,100
Total VOCs			73,409	17,770	64,555	73,056	69,500	69,426

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			10/19	11/19	12/19	01/20	03/20	04/20
Acetone	9,000	1,800	9,010	13,900	6,830	9,090	8,260	11,100
Benzene	5	0.5	48.4	56.6	56.6	54.2	73.2	32.7
2-Butanone (MEK)	4,000	800	3,110	4,770	2,850	3,900	4,020	2,870
Chloroethane	400	80	<122	<122	<122	<122	72.5	<106
Chloroform	6	0.6	<123	<123	188	<123	<49.3	<121
1,1-Dichloroethane	850	85	492	506	421	442	476	555
1,2-Dichloroethane	5	0.5	68.5	<54.5	<54.5	<54.5	<21.8	<63.5
1,1-Dichloroethene	7	0.7	105	112	106	88.3	95.5	135
cis-1,2-Dichloroethene	70	7	2,760	2,980	2,790	2,920	3,020	2,740
1,2-Dichloropropane	5	0.5	NA	<41.2	<41.2	<41.2	23.9	<34.8
Ethylbenzene	700	140	2,430	2,710	2,790	2,670	2,720	2,450
Isopropylbenzene (Cumene)	NSE	NSE	NA	<46.2	<46.2	<46.2	49.2	<32.8
Methylene Chloride	5	0.5	922	927	735	942	771	1,010
4-Methyl-2-pentanone (MIBK)	500	50	2,780	3,780	2,840	2,990	3,100	1,930
Methyl Tert-Butyl Ether	60	12	<40.2	<40.2	<40.2	<40.2	30.4	<29.0
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		NA	<2,850	<2,850	33,500	38,500	52,800
Styrene	100	10	NA	<46.8	152	<46.8	52.7	<27.5
Tetrachloroethene	5	0.5	66.0	82.6	71.0	71.7	89.7	<43.5
Toluene	800	160	42,800	46,200	48,600	38,800	41,400	39,700
1,1,1-Trichloroethane	200	40	1,650	1,800	1,620	1,890	1,790	1,470
1,1,2-Trichloroethane	5	0.5	<45.0	<45.0	45.6	45.1	56.2	<47.8
Trichloroethene	5	0.5	435	557	465	701	566	401
1,2,4-Trimethylbenzene	480	96	93.9	144	194	184	190	110
1,3,5-Trimethylbenzene			<30.5	47.8	82.9	34.4	69.8	39.6
Vinyl Chloride	0.2	0.02	177	223	163	193	198	205
Xylenes (Total)	2,000	400	10,300	10,700	11,900	10,300	11,100	10,500
Total VOCs			77,248	89,496	82,900	108,816	116,724	128,048

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			05/20	06/20	07/20	08/20	09/20	10/20
Acetone	9,000	1,800	8,140	8,410	4,510	7,590	10,100	11,900
Benzene	5	0.5	43.0	47.9	9.0	51.4	45.3	<61.6
2-Butanone (MEK)	4,000	800	4,700	5,230	3,300	4,290	6,080	6,180
Chlorobenzene	NSE	NSE	<7.6	<5.80	0.97	<3.8	<3.8	<178
Chloroethane	400	80	<42.4	43.9	8.7	68.1	75.2	<336
Chloroform	6	0.6	<48.4	20.1	3.4	30.6	26.1	<318
1,2-Dichlorobenzene	600	60	<13.6	<5.35	0.84	<6.8	<6.8	<176
1,1-Dichloroethane	850	85	422	606	97.9	533	494	614
1,2-Dichloroethane	5	0.5	68.1	58.3	11.7	64.0	65.3	<70.0
1,1-Dichloroethene	7	0.7	85.6	94.8	15.5	123	96.4	152
cis-1,2-Dichloroethene	70	7	2,400	2,670	2,450	2,870	2,620	2,910
trans-1,2-Dichloroethene	100	20	<19.1	<7.45	0.38	<9.6	<9.6	<116
1,2-Dichloropropane	5	0.5	<13.9	28.5	6.0	29.9	<7.0	<70.7
Ethylbenzene	700	140	2,260	2,440	2,060	2,680	2,190	2,350
Isopropylbenzene (Cumene)	NSE	NSE	22.3	23.7	5.2	27.2	20.7	<422
Methylene Chloride	5	0.5	631	676	106	789	720	893
4-Methyl-2-pentanone (MIBK)	500	50	3,020	3,790	3,060	3,810	3,520	3,300
Methyl Tert-Butyl Ether	60	12	<11.6	15.0	4.6	12.8	12.1	<311
Naphthalene	100	10	<68.0	<50.0	10	<34	<34.0	<294
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		31,700	36,600	37,700	41,900	37,800	<7,230
Styrene	100	10	23.6	24.7	5.9	33.9	33.2	<752
Tetrachloroethene	5	0.5	55.3	57.1	14.3	88.8	76.7	<81.6
Toluene	800	160	40,200	38,900	19,500	39,000	34,500	40,400
1,1,1-Trichloroethane	200	40	1,390	1,250	1,110	1,720	1,530	1,520
1,1,2-Trichloroethane	5	0.5	42.9	53.8	14.8	59.0	64.1	<138
Trichloroethene	5	0.5	455	398	270	866	589	498
1,2,4-Trimethylbenzene	480	96	150	166	35.4	182	127	<210
1,3,5-Trimethylbenzene			42.0	47.7	10.6	54.2	36.6	<218
Vinyl Chloride	0.2	0.02	145	129	24.7	197	173	266
Xylenes (Total)	2,000	400	8,570	9,320	7,960	10,500	8,670	9,020
Total VOCs			104,566	111,101	82,306	117,570	109,665	80,003

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			11/20	12/20	01/21	02/21	03/21	04/21
Acetone	9,000	1,800	9,850	9,040	6,670	13,600	12,200	8,350
Benzene	5	0.5	65.7	65.4	<61.6	47.6	<61.6	<73.9
2-Butanone (MEK)	4,000	800	5,750	4,670	3,360	7,720	7,520	4,190
Chlorobenzene	NSE	NSE	<178	<178	<178	<19.0	<178	<214
Chloroethane	400	80	<336	<336	<336	<106	<336	<345
Chloroform	6	0.6	<318	<318	<318	<121	<318	<296
1,2-Dichlorobenzene	600	60	<176	<176	<176	<34.0	<176	<81.5
1,1-Dichloroethane	850	85	719	1,120	344	570	611	620
1,2-Dichloroethane	5	0.5	89.3	84.0	<70.0	<63.5	<70.0	<72.9
1,1-Dichloroethene	7	0.7	155	138	<61.2	40.8	70.3	154
cis-1,2-Dichloroethene	70	7	3,570	3,720	1,840	3,170	3,190	2,940
trans-1,2-Dichloroethene	100	20	<116	<116	<116	<47.8	<116	<132
1,2-Dichloropropane	5	0.5	<70.7	<70.7	<70.7	<34.8	<70.7	<112
Ethylbenzene	700	140	2,670	2,620	1,220	2,580	2,260	2,330
Isopropylbenzene (Cumene)	NSE	NSE	<442	<422	<422	<32.8	<422	<250
Methylene Chloride	5	0.5	1,040	972	577	852	745	712
4-Methyl-2-pentanone (MIBK)	500	50	3,240	3,940	2,150	3,930	3,260	2,570
Methyl Tert-Butyl Ether	60	12	<311	<311	<311	<29.0	<311	<282
Naphthalene	100	10	<294	<294	<294	<170	<294	<282
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		45,100	58,200	27,500	41,400	40,700	28,400
Styrene	100	10	<752	<752	<752	37.1	<752	<89.1
Tetrachloroethene	5	0.5	<81.6	<81.6	<81.6	156	<81.6	<102
Toluene	800	160	43,900	42,300	21,000	41,900	37,600	43,700
1,1,1-Trichloroethane	200	40	1,730	1,380	466	1,590	1,240	1,160
1,1,2-Trichloroethane	5	0.5	<138	<138	<138	<47.8	<138	<86.1
Trichloroethene	5	0.5	511	325	208	638	448	411
1,2,4-Trimethylbenzene	480	96	<210	<210	<210	140	<210	<112
1,3,5-Trimethylbenzene			<218	<218	<218	40.9	<218	<89.3
Vinyl Chloride	0.2	0.02	255	296	62.7	207	140	246
Xylenes (Total)	2,000	400	10,200	9,880	5,110	10,600	9,210	9,800
Total VOCs			128,845	138,750	70,508	129,219	119,194	105,583

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/l)					
			05/21	06/21	07/21	09/21	10/21	11/21
Acetone	9,000	1,800	7,930	<4320	6,020	16,700	20,300	11,100
Benzene	5	0.5	50.9	<148	74.2	<148	<148	<148
2-Butanone (MEK)	4,000	800	5,230	<3,260	5,370	5,270	9,330	4,890
Chlorobenzene	NSE	NSE	<42.8	<428	<214	<428	<428	<428
Chloroethane	400	80	139	<690	<345	<690	<690	<690
Chloroform	6	0.6	<59.1	<591	<296	<591	<591	<591
1,2-Dichlorobenzene	600	60	<16.3	<163	<81.5	<163	<163	<163
1,1-Dichloroethane	850	85	626	1,040	657	502	702	697
1,2-Dichloroethane	5	0.5	77.0	<146	<72.9	<146	<146	<146
1,1-Dichloroethene	7	0.7	626	<291	<146	<291	<291	<291
cis-1,2-Dichloroethene	70	7	3,130	3,870	3,410	3,000	5,150	2,850
trans-1,2-Dichloroethene	100	20	<26.4	<264	<132	<264	<264	<264
1,2-Dichloropropane	5	0.5	26.6	<224	<112	<224	<224	<224
Ethylbenzene	700	140	2,550	2,520	3,070	2,290	4,130	2,220
Isopropylbenzene (Cumene)	NSE	NSE	<50.0	<500	<250	<500	<500	<500
Methylene Chloride	5	0.5	723	939	1,160	1,090	1,480	922
4-Methyl-2-pentanone (MIBK)	500	50	3,320	<2,980	3,120	2,990	4,470	3,300
Methyl Tert-Butyl Ether	60	12	<56.5	<565	<282	<565	<565	<565
Naphthalene	100	10	<56.5	<565	<282	<565	<565	<565
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		40,100	29,500	32,700	39,200	62,100	43,700
Styrene	100	10	<17.8	<178	<89.1	<178	<178	<178
Tetrachloroethene	5	0.5	57.3	<204	155.0	<204	<204	<204
Toluene	800	160	58,200	47,100	56,300	45,300	77,000	41,800
1,1,1-Trichloroethane	200	40	1,500	1,100	2,350	1,900	3,150	1,750
1,1,2-Trichloroethane	5	0.5	51.4	<172	<86.1	<172	<172	<172
Trichloroethene	5	0.5	404	302	1,250	1,220	1,340	588
1,2,4-Trimethylbenzene	480	96	128	<224	161	<224	<224	<224
1,3,5-Trimethylbenzene			38.8	<179	<89.3	<179	<179	<179
Vinyl Chloride	0.2	0.02	276	246	295	306	348	309
Xylenes (Total)	2,000	400	10,000	10,400	11,100	8,570	15,900	8,350
Total VOCs			135,184	97,017	127,192	128,338	205,400	122,476

TABLE B-9

SUMMARY OF DETECTED COMPOUNDS IN RW-12 (AUGUST 2017 THROUGH NOVEMBER 2021)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$), equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

Some reported values fall below the Limit of Quantitation set by the lab.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

NA=Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTES:

(1) There is no NR 140 PAL or ES for 2-propanol. The WDNR has recommended using the health advisory limit of 3,000 ppb based on a 10^{-6} cancer risk per <http://dnr.wi.gov/topic/drinkingwater/documents/halttable.pdf> - dated May 2017.

(2) All three sample vials in May 2019 contained greater than 6 mm of headspace.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-10

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-12

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading ⁽¹⁾			FN	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
		Field (varies)	Factor	Adjusted (gallons)			Incremental (lb)	Cumulative (lb)
08/04/17	08/04/17	Not applicable			(2)	313,593	Not applicable	
10/11/17	11/30/17	0	1	0	(2)	523,592	0.0	0.0
05/10/18	05/10/18	33,120	1	33,120	(3)	202,840	100	100
10/23/18	10/23/18	168,637	1	168,637		97,120	170	270
02/14/19	02/14/19	416,997	1	416,997		83,440	187	457
03/05/19	03/05/19	465,735	1	465,735		80,960	33	491
04/04/19	04/04/19	541,825	1	541,825		73,409	49	540
05/07/19	05/07/19	626,644	1	626,644		17,770	32	572
06/04/19	06/04/19	698,612	1	698,612		64,555	25	596
07/10/19	07/10/19	778,527	1	778,527		73,056	46	642
08/06/19	08/06/19	841,854	1	841,854		69,500	38	680
09/04/19	09/04/19	911,410	1	911,410		69,426	40	720
10/02/19	10/31/19	106,389	10	1,063,890	(1)	77,248	93	814
11/13/19	11/13/19	111,937	10	1,119,370		89,496	39	852
12/04/19	12/04/19	121,124	10	1,211,240		82,900	66	918
01/09/20	01/09/20	135,033	10	1,350,330		108,816	111	1,030
03/03/20	03/03/20	150,707	10	1,507,070		116,724	147	1,177
04/07/20	04/07/20	162,637	10	1,626,370		128,048	122	1,299
05/04/20	05/04/20	170,552	10	1,705,520		104,566	77	1,376
06/02/20	06/02/20	178,927	10	1,789,270		111,101	75	1,451
07/07/20	07/07/20	187,473	10	1,874,730		82,306	69	1,520
08/04/20	08/04/20	191,629	10	1,916,290		117,570	35	1,555
09/02/20	09/02/20	198,182	10	1,981,820		109,665	62	1,617
10/07/20	10/07/20	205,843	10	2,058,430		80,003	61	1,677
11/11/20	11/30/20	212,636	10	2,126,360		128,845	59	1,737
12/02/20	12/02/20	212,908	10	2,129,080		138,750	3	1,740
01/06/21	01/06/21	216,801	10	2,168,010		70,508	34	1,774
02/02/21	02/02/21	223,013	10	2,230,130		129,219	52	1,825
03/03/21	03/03/21	230,908	10	2,309,080		119,194	82	1,907
04/13/21	04/13/21	242,064	10	2,420,640		105,583	105	2,012
05/04/21	05/04/21	247,538	10	2,475,380		135,184	55	2,067
06/08/21	06/08/21	255,428	10	2,554,280		97,017	76	2,143
07/13/21	07/13/21	263,424	10	2,634,240		127,192	75	2,218
09/14/21	09/14/21	269,590	10	2,695,900		128,322	66	2,284
10/26/21	10/26/21	284,460	10	2,844,600		205,400	207	2,491
11/03/21	11/30/21	296,580	10	2,965,800		122,476	166	2,657

TABLE B-10

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-12

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$), equivalent to parts per billion (ppb).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 9 of 01/21 O&M Report).

Factor = See Footnote #1.

FN = Footnote (see below).

FOOTNOTES (FNs):

(1) Field meter readings are in gallons prior to 10/14/19 and tens of gallons on and after 10/14/19. Consequently, each Adjusted Meter Reading = Field Meter Reading x Factor shown to account for the change.

(2) RW-12 was installed and sampled in Aug 2017 but did not start pumping until 11/30/17. RW-12 pumped an estimated 28,874 gallons from 11/30/17 through 12/04/17 but then was turned off due to elevated VOC concentrations. The RW-12 pump was restarted on 5/31/18.

(3) No meter readings for RW-12 were recorded between 12/4/17 and 5/31/18. The meter reading from 5/31/18 was used to calculate the mass of VOCs removed by RW-12 on 5/10/18.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1) / 2 \times 3.785 \ell / 1 \text{ gal}] \times 1 \text{ lb} / 453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-11

SUMMARY OF DETECTED COMPOUNDS IN RW-13 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/ℓ)					
			08/17	10/17	05/19	06/19	08/19	09/19
Acetone	9,000	1,800	39,100	21,800	45,600	33,800	67,100	33,700
Benzene	5	0.5	<100	<200	67.0	70.9	67.4	58.4
2-Butanone (MEK)	4,000	800	5,560	1,800	6,900	6,010	11,800	5,610
Chloroethane	400	80	<74.9	<150	299	217	309	217
Chloroform	6	0.6	<500	<1,000	<89.6	27.3	22.2	<112
1,2-Dichlorobenzene	600	60	<100	<200	<27.4	6.5	5.0	<34.2
1,1-Dichloroethane	850	85	966	1,000	732	632	435	475
1,2-Dichloroethane	5	0.5	<33.6	<67.2	<43.6	106	109	143
1,1-Dichloroethene	7	0.7	176	<164	186	163	119	77.6
cis-1,2-Dichloroethene	70	7.0	5,970	7,860	5,450	4,870	2,290	2,690
trans-1,2-Dichloroethene	100	20	<51.3	<103	<47.4	6.7	<5.9	<59.2
Ethylbenzene	700	140	3,880	5,120	4,830	3,240	2,510	2,510
4-Methyl-2-pentanone (MIBK)	500	50	3,080	2,910	3,730	3,770	6,030	3,800
Methylene Chloride	5	0.5	514	679	937	910	740	892
Methyl-tert-butyl ether	60	12	<34.8	<69.7	<32.2	5.0	6.0	<40.2
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		16,100	19,400	NA	NA	NA	NA
Tetrachloroethene	5	0.5	104	<200	98.4	66.6	46.6	<42.5
Toluene	800	160	47,500	61,900	44,800	43,600	30,400	34,500
1,1,1-Trichloroethane	200	40	656	925	380	399	140	244
1,1,2-Trichloroethane	5	0.5	89.6	86.2	82.2	73.0	42.9	<45.0
Trichloroethene	5	0.5	<66.1	<132	<30.2	15.8	9.3	<37.8
1,2,4-Trimethylbenzene	480	96	227	371	531	354	238	211
1,3,5-Trimethylbenzene			<100	224	161	110	71.7	83.9
Vinyl chloride	0.2	0.02	245	352	507	331	235	274
Xylenes (Total)	2,000	400	15,420	19,110	18,400	12,200	9,330	9,580
Total VOCs			139,588	143,537	133,691	110,984	132,056	95,066

TABLE B-11

SUMMARY OF DETECTED COMPOUNDS IN RW-13 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/ℓ)					
			10/19	11/19	12/19	01/20	04/20	05/20
Acetone	9,000	1,800	26,600	57,500	36,700	27,200	27,400	22,200
Benzene	5	0.5	29.8	33.4	12.2	36.9	20.1	28.1
2-Butanone (MEK)	4,000	800	4,860	6,920	7,500	6,220	4,550	4,660
Chloroethane	400	80	280	<122	95.5	250	227	182
Chloroform	6	0.6	<123	143	<24.6	<49.3	<48.4	<48.4
1,1-Dichloroethane	850	85	322	206	111	188	120	125
1,2-Dichloroethane	5	0.5	<54.5	<54.5	50.8	87.8	<25.4	77.8
1,1-Dichloroethene	7	0.7	57.0	<39.8	17.1	32.9	<12.6	<12.6
cis-1,2-Dichloroethene	70	7.0	1,730	1,140	619	945	369	500
Ethylbenzene	700	140	1,830	1,210	669	1,580	1,060	1,340
Isopropylbenzene (Cumene)	NSE	NSE	NA	<46.2	26.8	21.0	<13.1	14.2
Methylene Chloride	5	0.5	717	561	302	418	257	227
4-Methyl-2-pentanone (MIBK)	500	50	2,320	3,440	3,830	2,660	1,730	2,200
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		NA	<2,850	26,200	24,200	14,800	22,000
Toluene	800	160	28,400	17,600	7,410	18,600	11,500	17,200
1,1,1-Trichloroethane	200	40	118	43.7	11.4	51.8	<17.0	<17.0
1,2,4-Trimethylbenzene	480	96	149	90.3	103	159	98.8	131
1,3,5-Trimethylbenzene			39.3	<30.5	32.2	49.4	34.1	39.5
Vinyl chloride	0.2	0.02	144	41.7	65.2	123	88.5	93.8
Xylenes (Total)	2,000	400	7,340	4,400	2,840	5,510	3,850	4,620
Total VOCs			74,936	93,329	86,595	88,333	66,105	75,638

TABLE B-11

SUMMARY OF DETECTED COMPOUNDS IN RW-13 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration ($\mu\text{g}/\ell$)					
			06/20	07/20	08/20	09/20	10/20	11/20
Acetone	9,000	1,800	18,500	6,410	12,800	9,930	9,640	18,600
Benzene	5	0.5	29.6	26.4	27.3	20.2	<30.8	34.0
2-Butanone (MEK)	4,000	800	4,860	1,750	2,890	2,110	<367	4,320
Chlorobenzene	NSE	NSE	<2.32	2.5	2.7	2.3	<88.9	<71.1
Chloroethane	400	80	180	139	159	116	<168	156
Chloroform	6	0.6	3.59	1.7	<9.7	<9.7	<159	<127
1,2-Dichlorobenzene	600	60	3.01	2.6	<2.7	<2.7	<88.2	<70.5
1,3-Dichlorobenzene	600	120	<2.20	0.28	<2.3	<2.3	<78.5	<62.8
1,4-Dichlorobenzene	75	15	<2.40	0.37	<1.6	<1.6	<118	<94.4
Dichlorodifluoromethane	1,000	200	<7.48	4.5	<3.9	<3.9	<62.4	<50.0
1,1-Dichloroethane	850	85	125	104	119	96.3	<34.1	122
1,2-Dichloroethane	5	0.5	53.0	39.0	40.9	41.0	<35.0	53.3
1,1-Dichloroethene	7	0.7	18.2	16.1	21.7	13.8	<30.6	<24.5
cis-1,2-Dichloroethene	70	7	508	431	468	338	<33.6	325
trans-1,2-Dichloroethene	100	20	<2.98	2.9	<3.8	<3.8	<58.0	<46.4
1,2-Dichloropropane	5	0.5	13.3	10.1	9.7	8.1	<35.3	<28.3
Ethylbenzene	700	140	1,340	1,280	1,250	955	651	1,660
Isopropylbenzene (Cumene)	NSE	NSE	15.8	14.3	15.6	12.1	<211	<169
Methylene Chloride	5	0.5	206	135	122	97.9	<72.6	60.8
4-Methyl-2-pentanone (MIBK)	500	50	2,240	1,890	1,950	1,360	951	2,140
Methyl-tert-butyl ether	60	12	10.7	10.4	8.2	9.5	<156	<125
Naphthalene	100	10	<20.0	14.5	15.3	15.1	<147	<118
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		18,500	21,200	15,400	12,800	9,140	12,500
Tetrachloroethene	5	0.5	12.7	12.6	15.2	7.2	<40.8	<32.6
Toluene	800	160	18,100	31,200	14,800	12,100	8,710	20,800
1,1,1-Trichloroethane	200	40	28.4	23.9	16.8	17.3	<30.6	<24.5
1,1,2-Trichloroethane	5	0.5	9.29	8.9	7.5	8.8	<69.0	<55.2
Trichloroethene	5	0.5	4.39	4.0	<3.0	4.4	<31.9	<25.5
1,2,4-Trimethylbenzene	480	96	117	104	116	88.4	<105	147
1,3,5-Trimethylbenzene			33.7	31.2	33.1	24.8	<109	<87.3
Vinyl chloride	0.2	0.02	69.1	62.5	74.9	58.3	<21.8	92.6
Xylenes (Total)	2,000	400	4,510	4,580	4,490	3,530	2,380	5,610
Total VOCs			69,491	69,512	54,853	43,765	31,472	66,621

TABLE B-11

SUMMARY OF DETECTED COMPOUNDS IN RW-13 (AUGUST 2017 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/ℓ)					
			12/20	01/21	02/21	03/21	04/21	05/21
Acetone	9,000	1,800	9,790	2,880	4,940	2,950	6,910	5,490
Benzene	5	0.5	<24.6	<24.6	14.6	<24.6	<29.5	22.6
2-Butanone (MEK)	4,000	800	2,290	567	1,460	511	1,640	2,940
Chloroethane	400	80	163	<134	143	140	<138	168
1,1-Dichloroethane	850	85	80.5	51.3	41.6	59.6	46.8	48.9
1,2-Dichloroethane	5	0.5	28.4	<28.0	<25.4	<28.0	<29.2	26.1
cis-1,2-Dichloroethene	70	7	165	101	66.0	83.6	81.8	74.6
Ethylbenzene	700	140	984	871	958	754	679	898
Methylene Chloride	5	0.5	<58.1	<58.1	<110	<58.1	35.7	27.8
4-Methyl-2-pentanone (MIBK)	500	50	1,330	<464	917	<464	1,100	1,740
2-Propanol (Isopropyl Alcohol)	3,000 ⁽¹⁾		8,420	3,370	4,120	<2,890	6,250	10,100
Tetrachloroethene	5	0.5	<32.6	<32.6	<17.4	<32.6	<40.9	9.6
Toluene	800	160	12,200	10,600	11,300	9,890	12,100	8,580
Trichloroethene	5	0.5	<25.5	<25.5	<14.9	<25.5	<32.0	8.8
1,2,4-Trimethylbenzene	480	96	89.9	<84.1	87.1	<84.1	<44.9	57.5
1,3,5-Trimethylbenzene			<87.3	<87.3	24.6	<87.3	<35.7	14.6
Vinyl chloride	0.2	0.02	47.4	28.9	19.9	20.6	34.4	31.3
Xylenes (Total)	2,000	400	3,340	3,030	3,370	3,000	3,000	3,500
Total VOCs			38,928	21,499	27,462	17,409	31,878	33,738

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year and Concentration (µg/ℓ)					
			06/21	07/21	08/21	09/21	10/21	11/21
Acetone	9,000	1,800	7,780	1,440	2,040	3,310	3,440	2,130
Benzene	5	0.5	<14.8	15.3	<14.8	<14.8	16.7	<14.8
2-Butanone (MEK)	4,000	800	1,950	763	683	809	880	471
Chloroethane	400	80	229	88	113	99	114	104
1,1-Dichloroethane	850	85	<14.8	50.1	<14.8	51.0	42.2	44.4
cis-1,2-Dichloroethene	70	7	78.1	77.4	68.9	98.1	64.5	58.0
Ethylbenzene	700	140	780	537	491	512	830	462
Methylene Chloride	5	0.5	<16.0	<16.0	<16.0	19	<16.0	<16.0
4-Methyl-2-pentanone (MIBK)	500	50	1,190	488	727	534	601	452
Isopropyl Alcohol (2-Propanol)	3,000 ⁽¹⁾		11,200	4,500	4,140	5,870	5,410	3,060
Tetrachloroethene	5	0.5	<20.4	<20.4	<20.4	<20.4	<20.4	<20.4
Toluene	800	160	12,600	7,940	8,820	8,860	12,200	6,960
Trichloroethene	5	0.5	<16.0	17.8	23.9	19.2	<16.0	16.3
1,2,4-Trimethylbenzene	480	96	56.3	52.4	51.8	45.2	51.3	27.6
1,3,5-Trimethylbenzene			<17.9	20.5	<17.9	<17.9	<17.9	<17.9
Vinyl chloride	0.2	0.02	30.2	25.4	26.6	24.8	13.3	19.3
Xylenes (Total)	2,000	400	2,980	2,120	2,310	2,330	3,130	1,980
Total VOCs			38,874	18,135	19,495	22,602	26,793	15,785

TABLE B-11

SUMMARY OF DETECTED COMPOUNDS IN RW-13 (AUGUST 2017 THROUGH NOVEMBER 2021)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

NA=Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol. The WDNR has recommended using the health advisory limit of 3,000 ppb based on a 10^6 cancer risk per <http://dnr.wi.gov/topic/drinkingwater/documents/haltable.pdf> - dated May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-12

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-13

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration (µg/ℓ)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
08/04/17	08/04/17	0	139,588	0.0	0.0
10/11/17	10/11/17	0	143,537	0.0	0.0
05/07/19	05/07/19	18,702	133,691	21.5	21.6
06/04/19	06/04/19	49,608	110,984	31.5	53.2
08/06/19	08/06/19	177,944	132,056	130.1	183.3
09/04/19	09/04/19	249,160	95,066	67.5	250.8
10/02/19	10/31/19	373,285	74,936	88.0	338.8
11/13/19	11/13/19	399,497	93,329	18.4	357.2
12/04/19	12/04/19	401,013	86,595	1.1	358.4
01/09/20	01/09/20	469,706	88,333	50.1	408.5
04/07/20	04/07/20	516,533	66,105	30.2	438.7
05/04/20	05/04/20	581,700	75,638	38.5	477.2
06/02/20	06/02/20	661,047	69,491	48.0	525.3
07/07/20	07/07/20	761,364	69,512	58.2	583.5
08/04/20	08/04/20	834,465	54,853	37.9	621.4
09/02/20	09/02/20	891,575	43,765	23.5	644.9
10/07/20	10/07/20	940,358	31,472	15.3	660.2
11/11/20	11/30/20	1,057,530	66,621	48.0	708.1
12/02/20	12/02/20	1,062,910	38,928	2.4	710.5
01/06/21	01/06/21	1,157,950	21,499	24.0	734.5
02/02/21	02/02/21	1,226,420	27,462	14.0	748.5
03/03/21	03/03/21	1,299,510	17,409	13.7	762.1
04/13/21	04/13/21	1,447,750	31,878	30.5	792.6
05/04/21	05/04/21	1,571,880	33,738	34.0	826.6
06/08/21	06/08/21	1,716,870	38,874	43.9	870.5
07/13/21	07/13/21	1,876,660	18,135	38.0	908.5
08/03/21	08/03/21	1,954,840	19,495	12.3	920.8
09/14/21	09/14/21	2,117,850	22,602	28.6	949.4
10/26/21	10/26/21	2,264,150	26,793	30.2	979.6
11/03/21	11/30/21	2,380,760	15,785	20.7	1000.3

TABLE B-12

ESTIMATED VOLUME OF WATER PUMPED & MASS OF VOCs REMOVED BY RW-13

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 11).

RW-13 was installed and sampled in August 2017 but did not start pumping until 01/18/19.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

All VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			5/11	5/12	6/13	10/13	3/14	4/14
			NLS	NLS	Pace	Pace	NLS	NLS
Acetone	9,000	1,800	<8.3	<8.3	2,420	2,020	1,700	2,200
1,1-Dichloroethane	850	85	24	17	23.2	26.6	18	25
1,2-Dichloroethane	5	0.5	2.4	1.4	<9.5	<4.8	<12	<12
1,2-Dichloropropane	5	0.5	0.61	0.42	<10	<5.0	<8.7	<8.7
cis-1,2-Dichloroethylene	70	7	2.2	<0.41	30.4	34.8	7.8	9.2
Ethylbenzene	700	140	<0.41	<0.43	34.8	52.3	33	37
Isopropyl Alcohol	3,000 ⁽¹⁾		23	<13	2,830	3,710	1,500	1,800
Methyl Ethyl Ketone (MEK)	4,000	800	2.1	<2	1,220	1,400	920	860
Methyl Isobutyl Ketone (MIBK)	500	50	<1.1	<0.63	112	192	99	77
Tetrachloroethylene	5	0.5	22	9.9	16.2	13	<11	<11
Toluene	800	160	<0.34	<0.46	718	1,070	580	750
1,1,1-Trichloroethane	200	40	4.2	3.7	20.5	87.5	13	15
1,1,2-Trichloroethane	5	0.5	1.1	0.57	<7.8	<3.9	<8.8	<8.8
Trichloroethylene	5	0.5	1.9	0.67	<8.6	<3.6	<14	<14
1,2,4-Trimethylbenzene	480	96	0.58	<0.47	<11.4	<5.0	<14	<14
m-&p-Xylene	2,000	400	6.5	<0.91	94.5	140	79	90
o-Xylene			4	<0.45	28.9	44.2	24	27
Vinyl Chloride	0.2	0.02	0.84	<0.30	9.1	14.2	<8.3	<8.3
Total VOCs	NSE	NSE	95.43	33.66	7,557.6	8,804.6	4,973.8	5,890.2

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			5/14	7/14	8/14	9/14	10/14	10/14
			NLS	NLS	NLS	NLS	NLS	Pace
Acetone	9,000	1,800	2,300	3,000	1,400	1,500	970	2,850
1,1-Dichloroethane	850	85	25	37	26	25	25	37.5
cis-1,2-Dichloroethylene	70	7	8.4	<7.4	<5.0	<7.4	<5.0	<12.8
Ethylbenzene	700	140	<7.4	<7.4	22	<7.4	21	<25.0
Isopropyl Alcohol	3,000 ⁽¹⁾		1,800	4,600	1,700	1,400	1,600	4,140
Methylene Chloride	5	0.5	<11	<11	<20	<11	<20	13.6
Methyl Ethyl Ketone (MEK)	4,000	800	610	<50	400	390	470	990
Methyl Isobutyl Ketone (MIBK)	500	50	75	130	65	53	69	<107
Tetrachloroethylene	5	0.5	<6.9	7.1	<11	8.0	<11	<25.0
Toluene	800	160	760	680	410	420	420	557
1,1,1-Trichloroethane	200	40	14	<9.8	<7.7	<9.8	<7.7	<25.0
m-&p-Xylene	2,000	400	82	85	58	70	63	54.4
o-Xylene			23	28	20	19	21	<25.0
Total VOCs	NSE	NSE	5,697.4	8,567.1	4,101	3,885	3,659	8,643

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			11/14	12/14	01/15	02/15	03/15	04/15
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	1,800	1,300	1,400	2,000	1,200	1,000
1,1-Dichloroethane	850	85	23	28	29	42	24	24
Ethylbenzene	700	140	<7.4	29	26	34	<8.7	20
Isopropyl Alcohol	3,000 ⁽¹⁾		1,300	2,000	1,700	2,000	1,400	1,200
Methyl Ethyl Ketone (MEK)	4,000	800	570	680	550	840	280	270
Methyl Isobutyl Ketone (MIBK)	500	50	47	57	54	59	44	37
Tetrachloroethylene	5	0.5	7.5	<11	<6.9	<11	<11	<11
Toluene	800	160	460	570	590	600	430	450
m-&p-Xylene	2,000	400	77	74	78	89	62	61
o-Xylene			20	21	20	24	17	17
Total VOCs	NSE	NSE	4,305	4,759	4,447	5,688	3,457	3,079

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			05/15	06/15	07/15	08/15	09/15	10/15
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	800	570	560	640	391	460
1,1-Dichloroethane	850	85	23	16	11	16	8.75	6.0
Ethylbenzene	700	140	20	17	11	16	10.3	12
Isopropyl Alcohol	3,000 ⁽¹⁾		480	950	970	670	575	1,000
Methyl Ethyl Ketone (MEK)	4,000	800	200	290	230	180	153	230
Methyl Isobutyl Ketone (MIBK)	500	50	19	33	30	18	20.4	16
Tetrachloroethylene	5	0.5	<11	<11	<4.4	4.3	<6.6	<5.5
Toluene	800	160	350	340	220	290	222	250
m-&p-Xylene	2,000	400	56	47	31	50	28	32
o-Xylene			15	<13	8.7	12	9.53	9.2
Total VOCs	NSE	NSE	1,963	2,263	2,071.7	1,896.3	1,418.0	2,015.2

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			11/15	12/15	01/16	03/16	04/16	05/16
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	920	710	730	1,100	940	2,100
Ethylbenzene	700	140	15	16	20	22	18	26
Isopropyl Alcohol	3,000 ⁽¹⁾		410	780	1,500	1,500	2,000	3,700
Methylene Chloride	5	0.5	13	<6.3	<6.3	<5.9	<12	<9.9
Methyl Ethyl Ketone (MEK)	4,000	800	180	360	450	660	620	900
Methyl Isobutyl Ketone (MIBK)	500	50	<7.8	11	25	30	<27	45
Tetrachloroethylene	5	0.5	6.1	<5.3	<5.3	5.8	<11	<8.3
Toluene	800	160	300	340	410	590	380	740
m-&p-Xylene	2,000	400	44	42	53	70	50	77
o-Xylene			11	10	14.0	17	12	18
Total VOCs	NSE	NSE	1,899.1	2,269	3,202	3,995	4,020	7,606

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/16	07/16	08/16	09/16	10/16	11/16
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	2,600	430	430	310	400	160
Ethylbenzene	700	140	26	<7.5	15	11	<6.0	7
Isopropyl Alcohol	3,000 ⁽¹⁾		860	770	830	500	400	150
Methyl Ethyl Ketone (MEK)	4,000	800	320	160	190	74	77	36
Methyl Isobutyl Ketone (MIBK)	500	50	<27	18	24	19	14	12
Tetrachloroethylene	5	0.5	<11	<4.1	<5.5	<5.5	<3.3	2.4
Toluene	800	160	480	250	240	190	180	130
m-&p-Xylene	2,000	400	69	34	39	28	26	19
o-Xylene			19	8.8	11.0	8.7	7.4	5.1
Total VOCs	NSE	NSE	4,374	1,670.8	1,779.0	1,140.7	1,104.4	521.5

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/16	01/17	02/17	03/17	04/17	05/17
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	390	200	250	140	49	310
Chloroethane	400	80	<19	<9.3	<15	<9.3	<3.7	7.3
1,1-Dichloroethane	850	85	<2.3	<1.9	<1.8	<1.9	<0.75	1.4
1,2-Dichloroethane	5	0.5	<2.4	<2.2	<1.9	<2.2	<0.88	1.4
Ethylbenzene	700	140	9.5	7.2	<3.0	3.7	2.9	10
Isopropyl Alcohol	3,000 ⁽¹⁾		560	160	120	180	100	290
Methylene Chloride	5	0.5	<2.5	<2.4	<2.0	<2.4	1.1	1.1
Methyl Ethyl Ketone (MEK)	4,000	800	96	54	26	15	11	79
Methyl Isobutyl Ketone (MIBK)	500	50	26	18	11	6.0	5.3	28
Tetrachloroethylene	5	0.5	<2.1	<2.2	<1.7	<2.2	1.2	0.92
Toluene	800	160	190	110	120	66	41	120
m-&p-Xylene	2,000	400	26	21	17	9.7	7.4	26
o-Xylene			7.8	5.9	5.1	2.8	2.2	7.4
Total VOCs	NSE	NSE	1,305.3	576.1	549.1	423.2	221.1	882.5

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/17	07/17	08/17	09/17	10/17	11/17
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	140	68	23	19	<10	6.6
Chloroethane	400	80	<3.7	<3.7	<3.7	<0.38	<2.3	1.2
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.75	0.50	<0.47	0.45
1,2-Dichloroethane	5	0.5	<0.88	<0.88	<0.88	<0.49	<0.55	0.23
Ethylbenzene	700	140	3.7	3.5	2.4	2.3	1.7	1.3
Isopropyl Alcohol	3,000 ⁽¹⁾		56	35	<18	<12	<11	5.2
Methyl Ethyl Ketone (MEK)	4,000	800	17	19	12	<1.3	2.9	<0.57
Methyl Isobutyl Ketone (MIBK)	500	50	4.4	5.3	4.1	3.5	1.4	<0.54
Tetrachloroethylene	5	0.5	<0.88	<0.88	<0.88	<0.41	<0.55	0.33
Toluene	800	160	47	46	26	33	17	13
m-&p-Xylene	2,000	400	9.7	8.9	5.7	4.8	4.0	2.8
o-Xylene			2.9	2.6	1.7	1.5	1.2	0.90
Total VOCs	NSE	NSE	280.7	188.3	74.9	64.6	28.2	32.0

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/17	01/18	02/18	03/18	04/18	05/18
			NLS	NLS	NLS	NLS	NLS	NLS
Acetone	9,000	1,800	<4.2	11	<4.2	5.2	7.9	<4.2
Chloroethane	400	80	<0.93	0.97	<0.93	<0.93	<0.93	<1.5
Dichlorodifluoromethane	1,000	200	<0.17	0.21	<0.17	<0.17	<0.17	<0.14
1,1-Dichloroethane	850	85	0.38	0.45	0.36	0.32	0.41	0.37
1,2-Dichloroethane	5	0.5	0.24	0.25	<0.22	<0.22	<0.22	<0.19
Ethylbenzene	700	140	0.84	0.81	0.50	0.53	0.43	0.57
Isopropyl Alcohol	3,000 ⁽¹⁾		11	9.0	11	20	<4.4	<5.0
Methyl Ethyl Ketone (MEK)	4,000	800	0.70	0.58	<0.57	0.60	<0.57	<0.50
Methyl Isobutyl Ketone (MIBK)	500	50	<0.54	<0.54	<0.54	<0.54	<0.54	<0.40
Tetrachloroethylene	5	0.5	0.26	0.30	0.29	0.25	0.28	0.35
Toluene	800	160	7.5	7.2	4.0	3.5	3.1	4.8
m-&p-Xylene	2,000	400	2.0	1.7	0.93	0.81	0.55	0.82
o-Xylene			0.60	0.53	0.32	0.26	0.24	0.34
Total VOCs	NSE	NSE	23.5	33.0	17.4	31.5	12.9	7.3

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/18	07/18	08/18	09/18	10/18	11/18
			NLS	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	18	11.2	<9.2	<9.2	<9.2	<9.2
Chloroethane	400	80	<0.93	1.2	1.3	1.0	0.57	0.94
1,1-Dichloroethane	850	85	0.38	0.58	0.57	0.31	0.46	0.45
Ethylbenzene	700	140	0.37	1.1	1.0	0.56	0.59	0.58
Methyl tert-butyl ether (MTBE)	60	12	0.39	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethylene	5	0.5	<0.22	0.32	0.41	0.40	0.80	0.55
Toluene	800	160	2.8	8.9	9.0	5.1	5.2	5.2
Trichloroethene	5	0.5	<0.32	<0.15	0.20	<0.15	0.25	0.28
m-&p-Xylene	2,000	400	0.42	<0.31	<0.31	<0.31	<0.31	<0.31
o-Xylene			<0.19					
Total VOCs	NSE	NSE	22.4	23.3	12.5	7.4	7.9	8.0

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/18	01/19	02/19	03/19	04/19	05/19
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2
Chloroethane	400	80	1.2	<0.49	<0.49	0.96	0.98	0.93
1,1-Dichloroethane	850	85	0.45	<0.17	0.31	0.28	<0.17	0.58
Ethylbenzene	700	140	0.55	0.26	0.45	0.31	0.38	0.95
Methylene Chloride	5	0.5	<0.98	<0.98	<0.98	2.5	<0.98	<0.98
Methyl Ethyl Ketone (MEK)	4,000	800	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
Methyl tert-butyl ether (MTBE)	60	12	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethylene	5	0.5	0.42	0.48	0.28	0.20	0.28	<0.17
Toluene	800	160	4.7	2.0	3.6	2.4	3.1	3.2
Trichloroethene	5	0.5	0.33	0.17	0.24	0.19	0.22	0.34
Xylenes (Total)	2,000	400	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Total VOCs	NSE	NSE	7.7	2.9	4.9	6.8	5.0	6.0

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/19	07/19	08/19	09/19	10/19	11/19
			Pace	Pace	Pace	Pace	Pace	Pace
Acetone	9,000	1,800	42.5	<9.2	<9.2	<9.2	17.4	<9.2
Chloroethane	400	80	<0.49	<0.49	0.49	<0.49	<0.49	<0.49
Chloromethane	30	3	<0.16	1.8	1.3	2.7	0.66	<0.48
1,1-Dichloroethane	850	85	<0.17	<0.17	0.25	<0.17	<0.17	0.23
Ethylbenzene	700	140	0.20	0.18	0.33	0.34	<0.14	<0.14
Methyl Ethyl Ketone (MEK)	4,000	800	23.3	<0.99	<0.99	<0.99	<0.99	<0.99
Methyl tert-butyl ether (MTBE)	60	12	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethylene	5	0.5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Toluene	800	160	1.2	1.3	2.2	2.8	1.1	<0.083
Trichloroethene	5	0.5	<0.15	<0.15	0.27	<0.15	<0.15	<0.15
Xylenes (Total)	2,000	400	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Total VOCs	NSE	NSE	67.2	3.3	4.8	5.8	19.2	0.23

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/19	01/20	02/20	03/20	04/20	05/20
			Pace	Pace	Pace	Pace	Pace	Pace
Chloroethane	400	80	0.49	0.62	<0.49	<0.49	<0.42	<0.42
1,1-Dichloroethane	850	85	0.25	<0.17	<0.17	<0.17	<0.17	<0.17
Ethylbenzene	700	140	0.22	0.24	<0.14	0.14	<0.075	<0.075
Toluene	800	160	1.7	1.4	0.70	0.45	<0.12	0.19
Trichloroethene	5	0.5	<0.15	<0.15	<0.15	<0.15	<0.15	0.32
Total VOCs	NSE	NSE	2.17	1.64	0.70	0.59	0.00	0.51

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/20	07/20	08/20	09/20	10/20	11/20
			Pace	Pace	Pace	Pace	Pace	Pace
Dichlorodifluoromethane	1,000	200	<0.374	<0.20	<0.20	0.35	<0.50	<0.50
1,1-Dichloroethane	850	85	0.205	<0.17	<0.17	<0.17	<0.27	0.40
Ethylbenzene	700	140	0.203	<0.075	<0.075	<0.075	<0.32	<0.32
Toluene	800	160	0.534	0.19	<0.12	<0.12	<0.27	<0.27
1,2,4-Trichlorobenzene	70	14	<0.322	<0.17	<0.17	<0.17	1.3	<0.95
Trichloroethene	5	0.5	0.221	<0.15	<0.15	<0.15	<0.26	<0.26
Total VOCs	NSE	NSE	1.16	0.19	0.00	0.35	1.3	0.40

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			12/20	01/21	02/21	03/21	04/21	05/21
			Pace	Pace	Pace	Pace	Pace	Pace
Dichlorodifluoromethane	1,000	200	<0.50	<0.50	<0.20	<0.50	<0.46	<0.46
1,1-Dichloroethane	850	85	<0.27	<0.27	<0.17	<0.27	<0.30	<0.30
Ethylbenzene	700	140	<0.32	<0.32	<0.075	<0.32	<0.33	<0.33
Toluene	800	160	<0.27	<0.27	<0.12	<0.27	<0.29	<0.29
1,2,4-Trichlorobenzene	70	14	<0.84	<0.84	<0.17	<0.95	<0.95	<0.95
Trichloroethene	5	0.5	<0.26	<0.26	<0.15	<0.26	<0.32	<0.32
Total VOCs	NSE	NSE	0.00	0.00	0.00	0.00	0.0	0.00

TABLE B-13

SUMMARY OF DETECTED COMPOUNDS IN WRR PRODUCTION WELL (MAY 2011 THROUGH NOVEMBER 2021)

Compound	NR 140 ES	NR 140 PAL	Sample Month/Year, Lab, and Concentration (µg/l)					
			06/21	07/21	08/21	09/21	10/21	11/21
			Pace	Pace	Pace	Pace	Pace	Pace
Dichlorodifluoromethane	1,000	<i>200</i>	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,1-Dichloroethane	850	<i>85</i>	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylbenzene	700	<i>140</i>	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Methylene Chloride	5	<i>0.5</i>	<0.32	<i>1.40</i>	<0.32	<0.32	<0.32	<0.32
Toluene	800	<i>160</i>	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
1,2,4-Trichlorobenzene	70	<i>14</i>	<0.45	<0.95	<0.95	<0.95	<0.95	<0.95
Trichloroethene	5	<i>0.5</i>	<0.32	<0.32	<0.32	<0.32	0.40	0.40
Total VOCs	NSE	NSE	0.00	1.40	0.00	0.00	0.40	0.40

NOTES:

Concentrations are in micrograms per liter (µg/l), equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

Samples were analyzed for a full suite of VOCs using Method 8260. Only compounds detected in one or more samples are listed on this table.

NR 140 PAL and ES = NR 140 preventative action limit and enforcement standards downloaded on 01/20/2022 from

http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - June 2021 - Register No. 786.

Some reported values fall below the Limit of Quantitation set by the lab.

Each subsection of this table includes only those compounds detected in one or more samples collected during the range of dates shown.

NSE = No standard exists in NR 140 for this substance/group.

Total VOCs = Summation of the detected volatile organic compounds on the sample month/year shown.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR has recommended using the health advisory limit of 3,000 ppb based on a 10⁻⁶ cancer risk taken from the following website: <http://dnr.wi.gov/topic/drinkingwater/documents/haltable.pdf> - dated May 2017.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE B-14

ESTIMATED VOLUME OF WATER AND MASS OF VOCs REMOVED BY PRODUCTION WELL

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration (µg/l)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
05/11	05/11	0	106.51	0	0
05/12 ⁽¹⁾	05/12	1,267,100	33.66	0.74	0.74
06/13	06/13	9,362,600	7,557.6	256.4	257.1
10/13 ⁽²⁾	10/13	11,942,300	8,804.6	176.1	433.2
03/14 ⁽³⁾	03/14	14,903,600	4,973.8	170.2	603.5
05/06/14	05/06/14	15,589,000	5,697.4	30.5	634.0
07/09/14	07/09/14	17,022,900	8,567.1	85.3	719.3
08/05/14	08/05/14	17,621,500	4,101.0	31.6	751.0
09/09/14	09/09/14	18,338,000	3,885.0	23.9	774.8
10/08/14	10/08/14	19,297,800	6,151.0	40.2	815.0
11/12/14	11/12/14	19,583,300	4,304.5	12.5	827.5
12/04/14	12/04/14	19,984,800	4,759.0	15.2	842.7
01/07/15	01/07/15	20,547,100	4,447.0	21.6	864.3
02/04/15	02/04/15	21,137,800	5,688.0	25.0	889.2
03/11/15	03/11/15	21,885,200	3,457.0	28.5	917.8
04/09/15	04/09/15	22,616,500	3,079.0	19.9	937.7
05/05/15	05/05/15	23,298,100	1,963.0	14.3	952.0
06/03/15	06/03/15	23,998,700	2,263.0	12.4	964.4
07/08/15	07/08/15	24,860,400	2,071.7	15.6	980.0
08/04/15	08/04/15	25,524,500	1,896.3	11.0	991.0
09/09/15	09/09/15	26,481,100	1,418.0	13.2	1,004.2
10/14/15	10/14/15	27,347,200	2,015.2	12.4	1,016.6
11/04/15	11/04/15	27,816,000	1,899.1	7.7	1,024.3
12/03/15	12/03/15	28,411,400	2,269.0	10.4	1,034.6
01/05/16	01/05/16	29,105,000	3,202.0	15.8	1,050.4
03/02/16	03/02/16	30,381,000	3,994.8	38.3	1,088.8
04/05/16	04/05/16	31,210,300	4,020.0	27.7	1,116.5
05/04/16	05/04/16	31,922,200	7,606.0	34.5	1,151.0
06/07/16	06/07/16	32,747,200	4,374.0	41.2	1,192.3
07/12/16	07/12/16	33,664,900	1,670.8	23.1	1,215.4
08/10/16	08/10/16	34,459,600	1,779.0	11.4	1,226.8
09/06/16	09/06/16	35,015,300	1,140.7	6.8	1,233.6
10/05/16	10/05/16	35,628,500	1,104.4	5.7	1,239.4

TABLE B-14

ESTIMATED VOLUME OF WATER AND MASS OF VOCs REMOVED BY PRODUCTION WELL

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration (µg/l)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
11/03/16	11/03/16	36,199,600	522.0	3.9	1,243.2
12/06/16	12/06/16	36,724,200	1,305.3	4.0	1,247.2
01/09/17	01/09/17	37,261,600	576.1	4.2	1,251.5
02/07/17	02/07/17	37,806,500	549.1	2.6	1,254.0
03/08/17	03/08/17	38,386,000	423.2	2.4	1,256.4
04/05/17	04/05/17	38,965,000	221.1	1.6	1,257.9
05/02/17	05/02/17	39,416,800	883.5	2.1	1,260.0
06/06/17	06/06/17	40,105,500	280.7	3.3	1,263.3
07/11/17	07/11/17	40,822,100	188.3	1.4	1,264.7
08/08/17	08/08/17	41,445,000	74.9	0.68	1,265.4
09/07/17 ⁽⁴⁾	09/07/17	42,003,900	64.6	0.33	1,265.8
10/04/17	10/04/17	42,568,500	28.2	0.22	1,266.0
11/07/17	11/07/17	43,199,100	32.0	0.16	1,266.1
12/06/17	12/06/17	43,774,600	23.5	0.13	1,266.3
01/09/18	01/09/18	44,296,100	33.0	0.12	1,266.4
02/07/18	02/07/18	44,905,600	17.4	0.13	1,266.5
03/07/18	03/07/18	45,473,100	31.5	0.12	1,266.6
04/05/18	04/05/18	46,083,200	12.9	0.11	1,266.7
05/03/18	05/03/18	46,705,900	7.3	0.05	1,266.8
06/05/18	06/05/18	47,269,000	22.4	0.07	1,266.9
07/10/18	07/10/18	48,103,000	23.3	0.16	1,267.0
08/02/18	08/02/18	48,625,200	12.5	0.08	1,267.1
09/11/18	09/11/18	49,465,800	7.4	0.07	1,267.2
10/03/18	10/03/18	49,945,200	7.9	0.031	1,267.2
11/06/18	11/06/18	50,662,900	8.0	0.048	1,267.3
12/04/18	12/04/18	51,148,500	7.7	0.032	1,267.3
01/09/19	01/09/19	51,702,600	2.9	0.025	1,267.3
02/14/19	02/14/19	52,388,900	4.9	0.022	1,267.3
03/05/19	03/05/19	52,574,500	6.8	0.009	1,267.3
04/04/19	04/04/19	53,108,500	5.0	0.026	1,267.4
05/07/19	05/07/19	53,746,700	6.0	0.029	1,267.4
06/04/19	06/04/19	54,291,300	67.2	0.166	1,267.6
07/10/19	07/10/19	54,924,300	3.3	0.186	1,267.7
08/06/19	08/06/19	55,487,000	4.8	0.019	1,267.8
09/04/19	09/04/19	56,063,200	5.8	0.025	1,267.8
10/02/19	10/31/19	57,116,600	19.2	0.110	1,267.9

TABLE B-14

ESTIMATED VOLUME OF WATER AND MASS OF VOCs REMOVED BY PRODUCTION WELL

Sample Date or Month/Year	Meter Reading Date or Month/Year	Meter Reading (gallons)	Total VOC Concentration ($\mu\text{g}/\text{e}$)	Mass of VOCs Removed	
				Incremental (lb)	Cumulative (lb)
11/13/19	11/13/19	57,298,800	0.23	0.015	1,267.9
12/04/19	12/04/19	57,611,100	2.2	0.0031	1,267.9
01/09/20	01/09/20	58,090,900	1.64	0.0076	1,267.9
02/04/20	02/04/20	58,440,400	0.70	0.0034	1,267.9
03/03/20	03/03/20	58,864,100	0.59	0.0023	1,267.9
04/07/20	04/07/20	59,424,500	0.0	0.0014	1,267.9
05/04/20	05/04/20	59,877,100	0.51	0.0010	1,267.9
06/02/20	06/02/20	60,413,100	1.2	0.0037	1,267.9
07/07/20	07/07/20	61,115,400	0.19	0.0040	1,267.9
08/04/20	08/04/20	61,609,500	0.0	0.00039	1,267.9
09/02/20	09/02/20	62,074,600	0.35	0.00068	1,267.9
10/07/20	10/07/20	62,700,800	1.3	0.0043	1,267.9
11/11/20	11/30/20	63,523,300	0.40	0.0058	1,268.0
12/02/20	12/02/20	63,558,800	0.00	0.000	1,268.0
01/06/21	01/06/21	64,000,700	0.0	0.0000	1,268.0
02/02/21	02/02/21	64,366,200	0.00	0.0000	1,268.0
03/03/21	03/03/21	64,768,200	0.00	0.0000	1,268.0
04/13/21	04/13/21	65,481,200	0.00	0.0000	1,268.0
05/04/21	05/04/21	65,604,900	0.0	0.0000	1,268.0
06/08/21	06/08/21	66,223,700	0.00	0.0000	1,268.0
07/13/21	07/13/21	67,178,100	1.4	0.0056	1,268.0
08/03/21	08/03/21	67,309,300	0.00	0.0008	1,268.0
09/14/21	09/14/21	68,415,700	0.0	0.00000	1,268.0
10/26/21	10/26/21	69,393,700	0.40	0.00163	1,268.0
11/03/21	11/30/21	70,035,900	0.40	0.0021	1,268.0

TABLE B-14

ESTIMATED MASS OF VOCs REMOVED BY PRODUCTION WELL

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Total VOC Concentration = Total detected VOCs in sample on date shown (see Table 13).

FOOTNOTES:

(1) The flow rate was increased and began being metered in March 2012.

(2) Meter reading estimated for 10/29/13 based on average flow rate measured in September 2013.

(3) Total VOC concentrations based on sample collected on 3/27/14. The meter reading was recorded on 4/1/14. The meter read 42,490,900 gallons from 9/29/17 to 10/1/17, although the pump was running.

Calculation of Incremental Mass of VOCs Removed:

$$[(V_2 - V_1) \times (C_2 + C_1)/2 \times 3.785 \ell/1 \text{ gal}] \times 1 \text{ lb}/453,600,000 \mu\text{g}$$

Where: V_2 = total volume of water pumped on date of sample (gallons).

V_1 = total volume pumped on date of previous sample used in calculation (gallons).

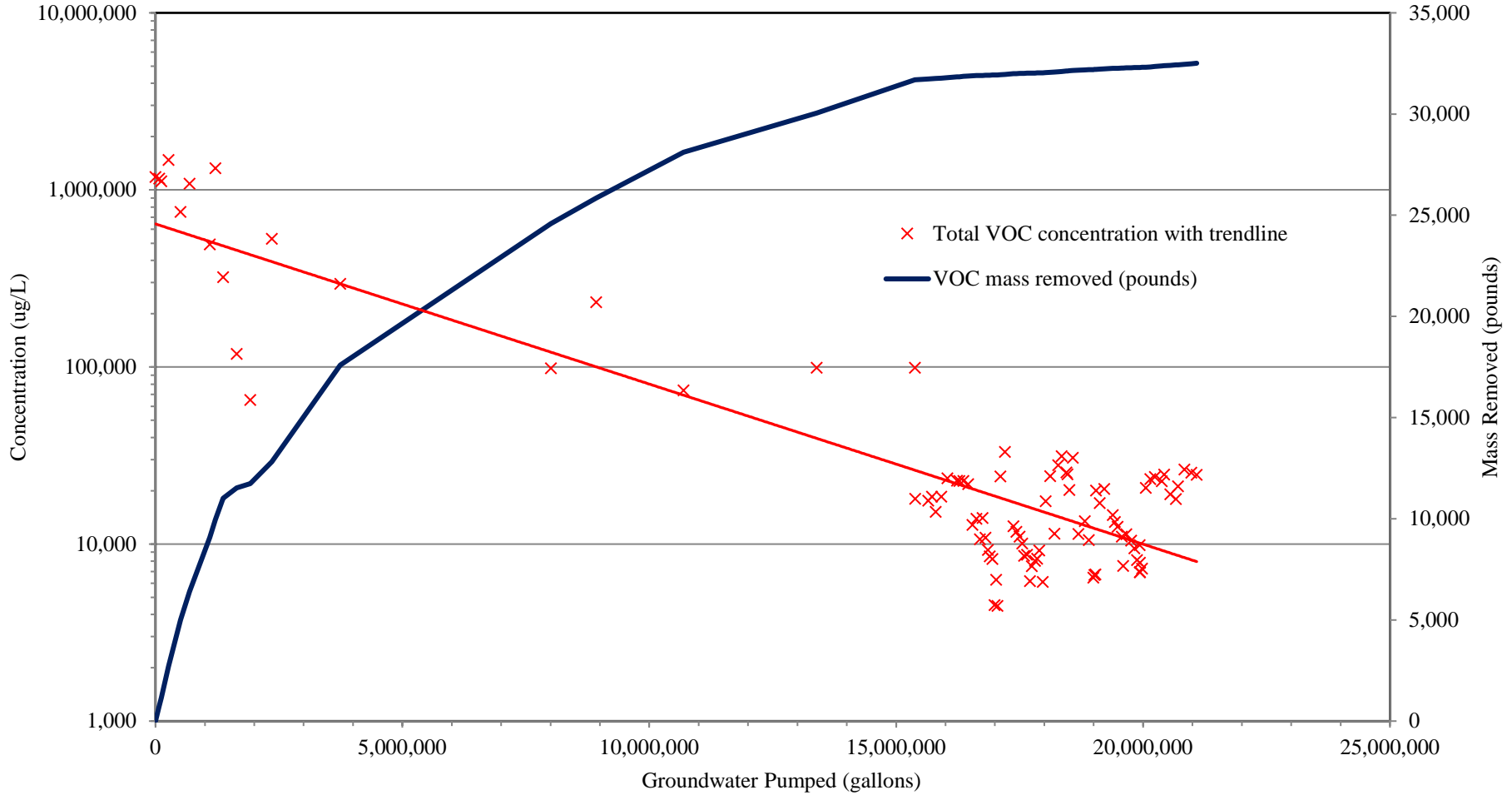
C_2 = total VOC concentration estimated on date of sample ($\mu\text{g}/\ell$).

C_1 = total VOC concentration estimated on previous sample date ($\mu\text{g}/\ell$).

With the exception of the first sample date shown on the table, all VOC concentrations used to calculate the incremental mass of VOCs removed during a given time period are the average of the estimated total VOC concentrations on the current and previous sample dates.

APPENDIX B-2

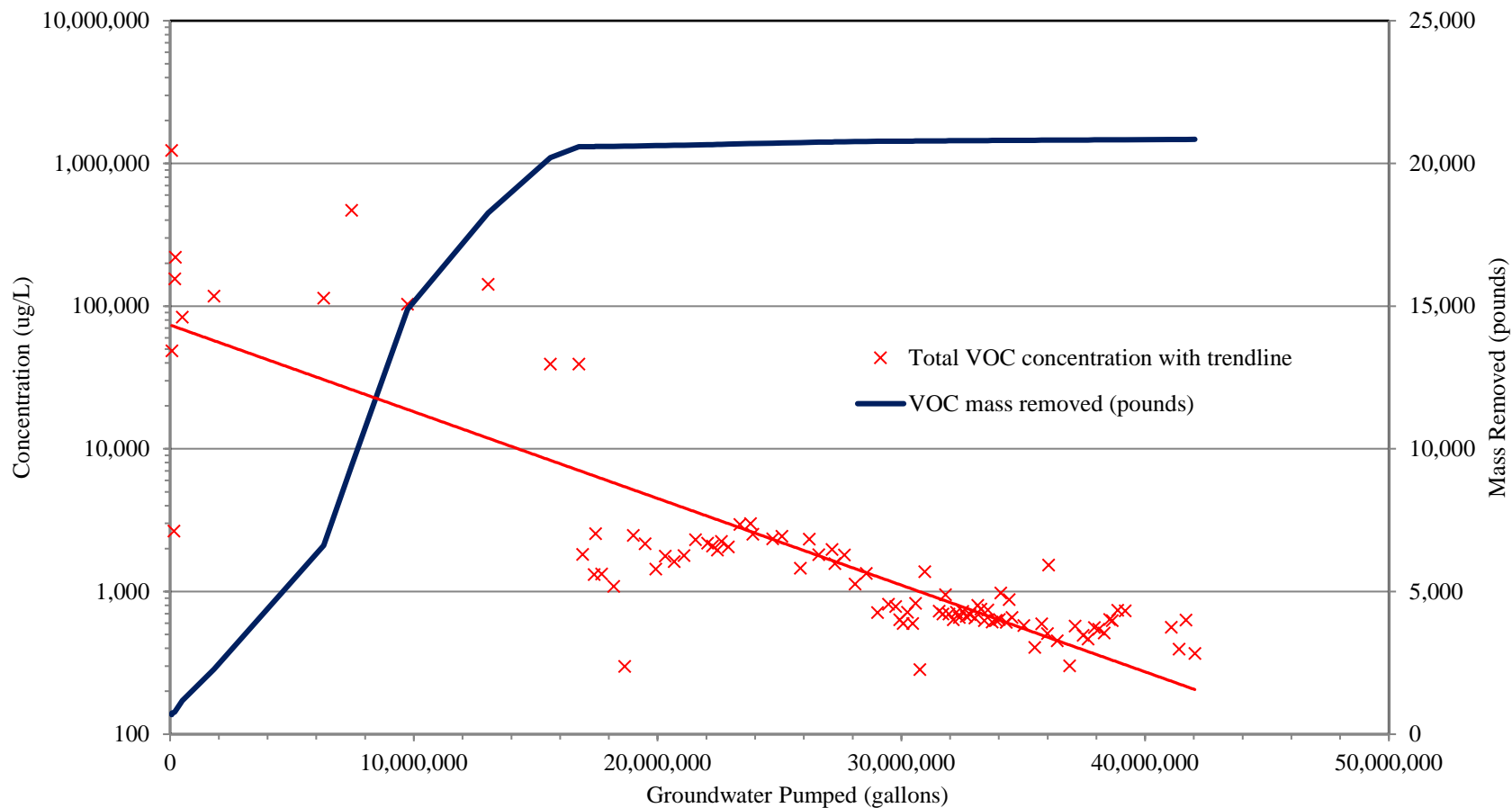
CHARTS SHOWING TOTAL VOC CONCENTRATIONS AND MASS
REMOVED BY GROUNDWATER RECOVERY WELLS



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-6 (MAY 1989 THROUGH NOVEMBER 2021)**

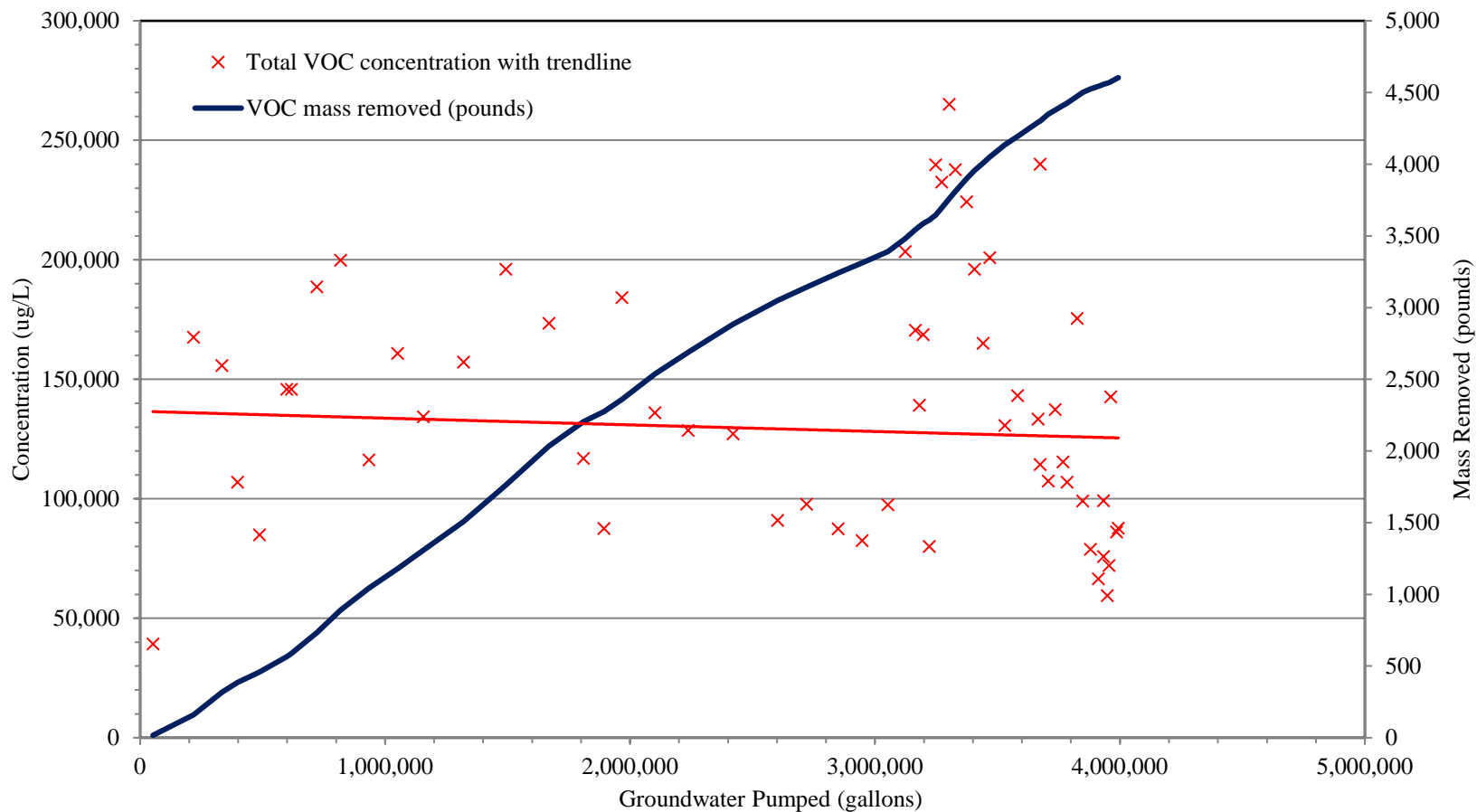
**WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN**



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-7 (JULY 1991 THROUGH DECEMBER 2020)**

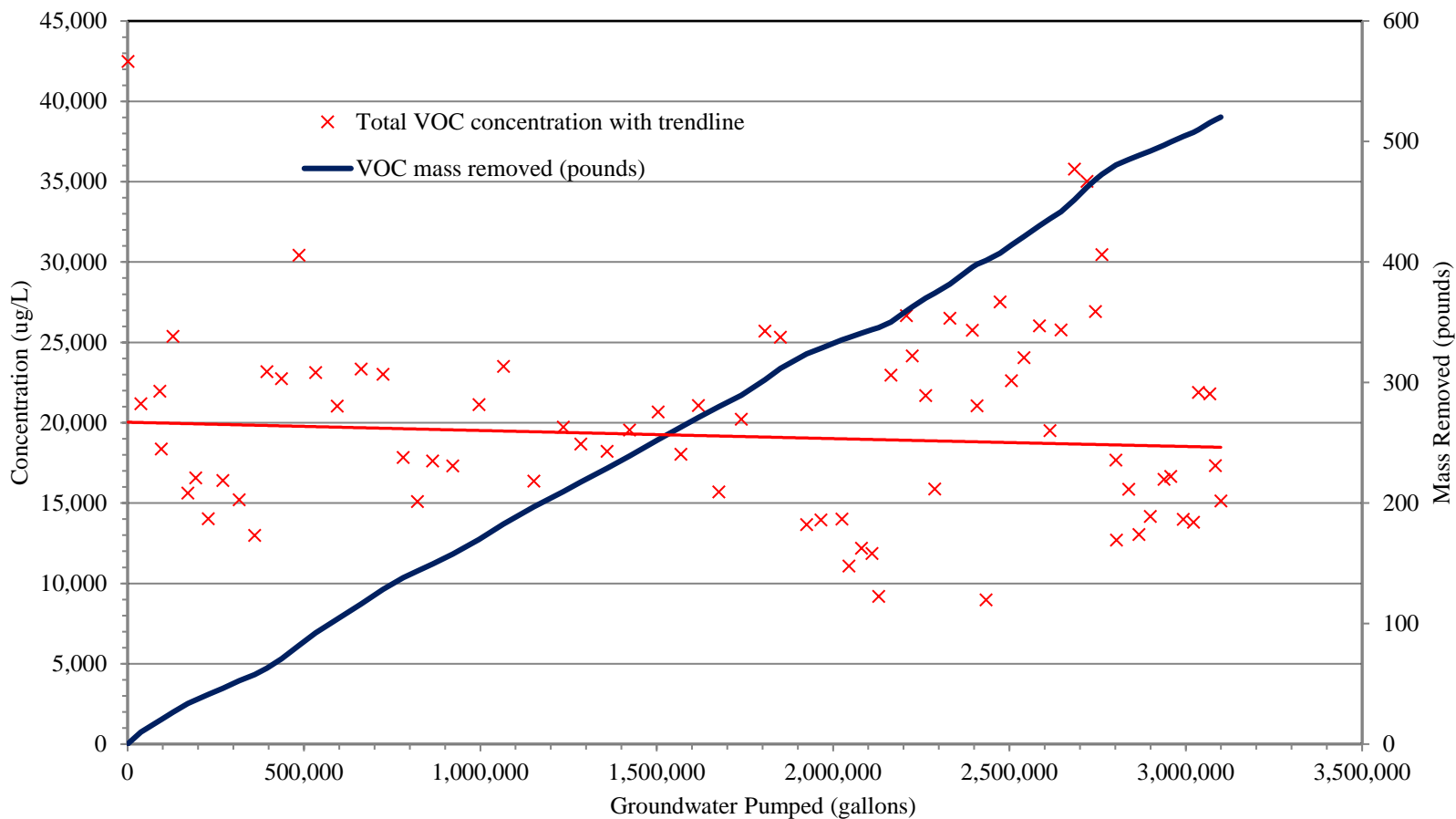
WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-10 (DECEMBER 2014 THROUGH NOVEMBER 2021)**

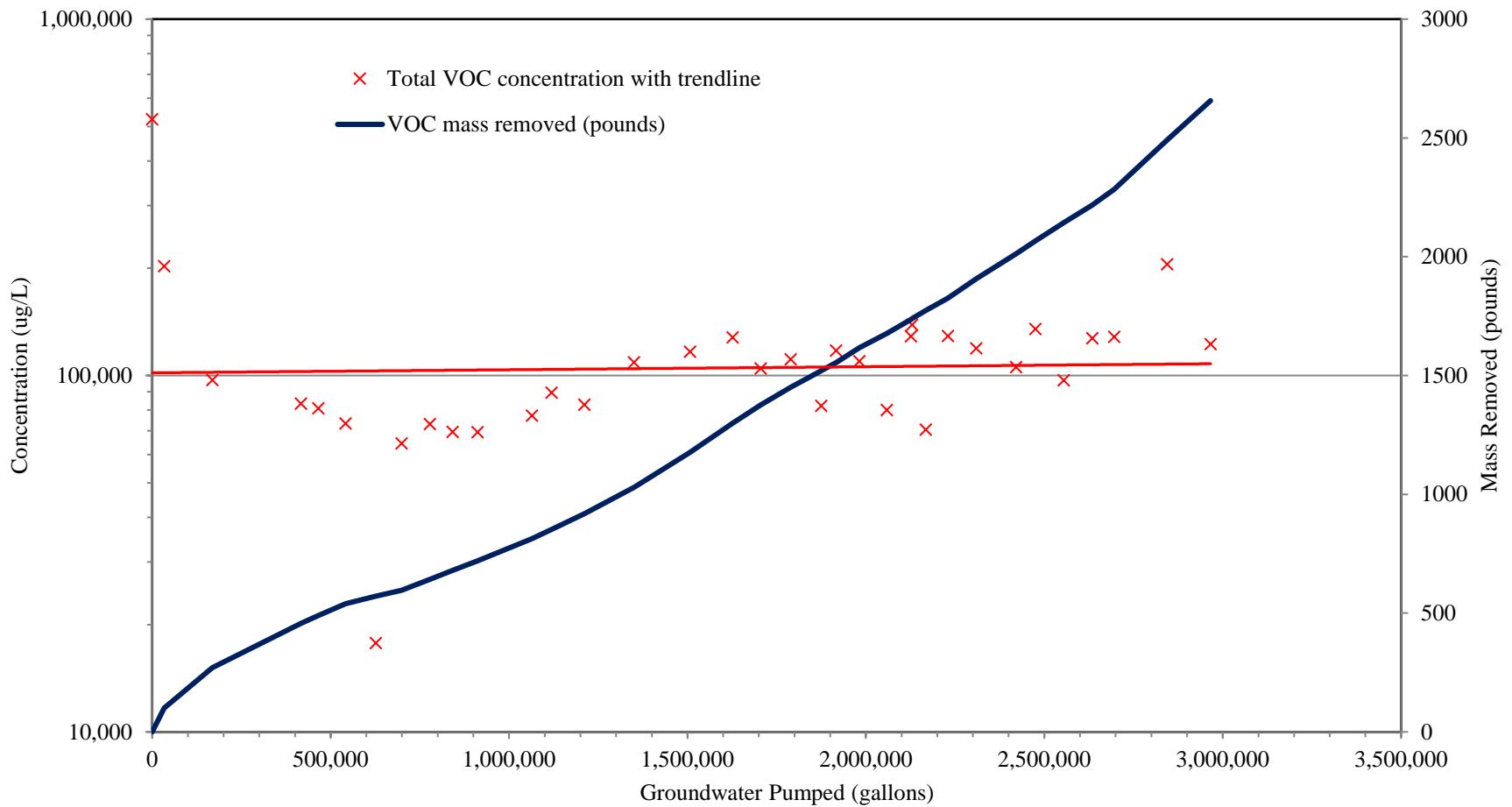
WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-11 (DECEMBER 2014 THROUGH NOVEMBER 2021)**

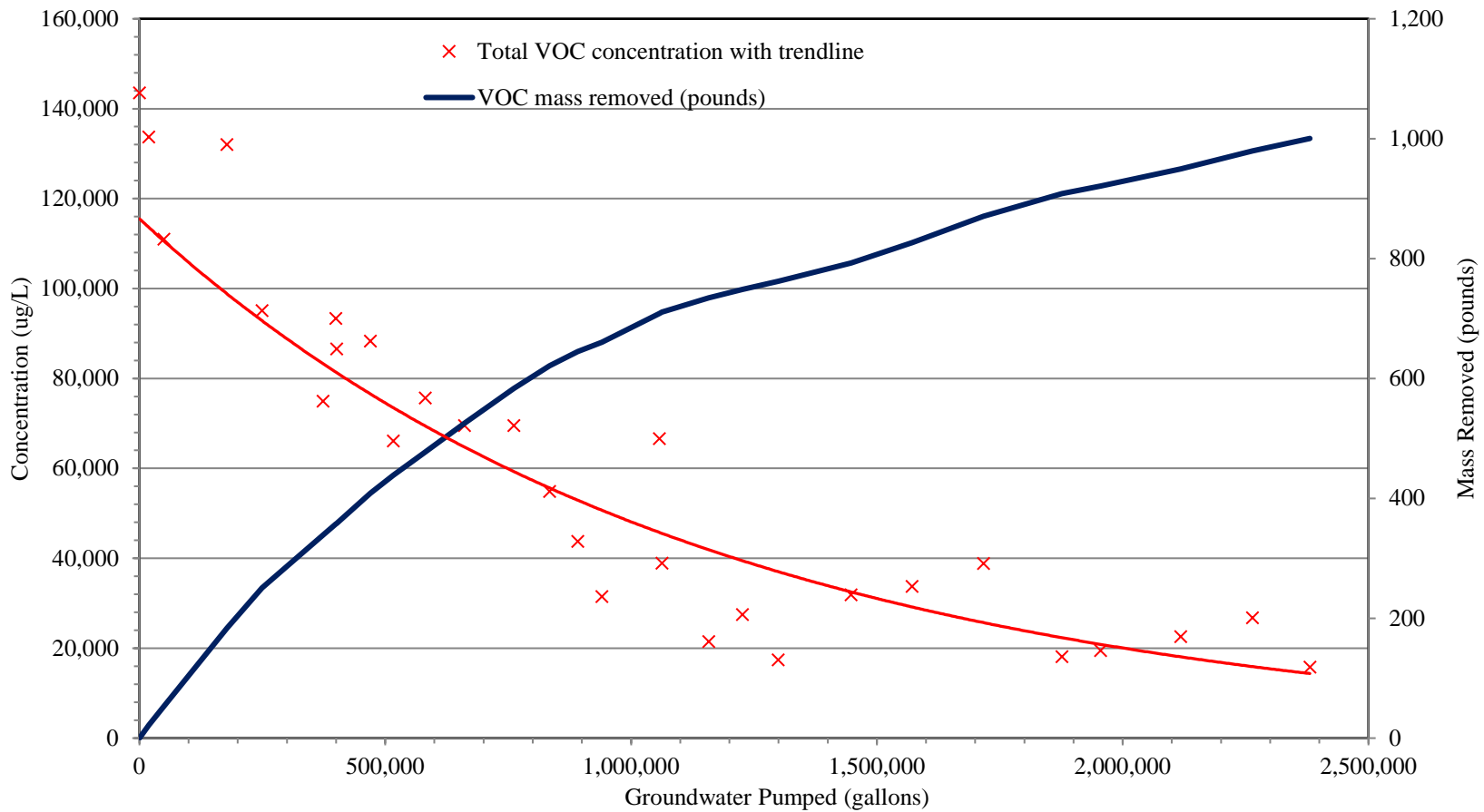
**WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN**



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-12 (NOVEMBER 2017 THROUGH NOVEMBER 2021)**

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
RW-13 (JANUARY 2019 THROUGH NOVEMBER 2021)**

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

APPENDIX B-3

LABORATORY REPORTS FOR WATER SAMPLES COLLECTED FROM
RECOVERY WELLS – DECEMBER 2020 THROUGH NOVEMBER 2021

December 07, 2020

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: MONTHLY VOC
Pace Project No.: 40219260

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY VOC

Pace Project No.: 40219260

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

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SAMPLE SUMMARY

Project: MONTHLY VOC

Pace Project No.: 40219260

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40219260001	RESERVOIR	Water	12/02/20 07:00	12/03/20 09:35
40219260002	PRODUCTION	Water	12/02/20 06:40	12/03/20 09:35
40219260003	RW7	Water	12/02/20 07:05	12/03/20 09:35
40219260004	RW10	Water	12/02/20 06:45	12/03/20 09:35
40219260005	RW11	Water	12/02/20 06:50	12/03/20 09:35
40219260006	RW12	Water	12/02/20 06:46	12/03/20 09:35
40219260007	RW13	Water	12/02/20 07:15	12/03/20 09:35
40219260008	TRIP BLANK	Water	12/02/20 00:00	12/03/20 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MONTHLY VOC

Pace Project No.: 40219260

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40219260001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40219260002	PRODUCTION	EPA 8260	HNW	42	PASI-G
40219260003	RW7	EPA 8260	HNW	42	PASI-G
40219260004	RW10	EPA 8260	HNW	42	PASI-G
40219260005	RW11	EPA 8260	HNW	42	PASI-G
40219260006	RW12	EPA 8260	HNW	42	PASI-G
40219260007	RW13	EPA 8260	HNW	42	PASI-G
40219260008	TRIP BLANK	EPA 8260	HNW	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RESERVOIR **Lab ID: 40219260001** Collected: 12/02/20 07:00 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	333	ug/L	100	13.7	5		12/07/20 08:11	67-64-1	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		12/04/20 15:41	78-93-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/04/20 15:41	74-87-3	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/04/20 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		12/04/20 15:41	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/04/20 15:41	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		12/04/20 15:41	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/04/20 15:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: **PRODUCTION** Lab ID: **40219260002** Collected: 12/02/20 06:40 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		12/04/20 22:40	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		12/04/20 22:40	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		12/04/20 22:40	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		12/04/20 22:40	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/04/20 22:40	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/04/20 22:40	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/04/20 22:40	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/04/20 22:40	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/04/20 22:40	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/04/20 22:40	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/04/20 22:40	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/04/20 22:40	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 22:40	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/04/20 22:40	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 22:40	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/04/20 22:40	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/04/20 22:40	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/04/20 22:40	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		12/04/20 22:40	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		12/04/20 22:40	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		12/04/20 22:40	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/04/20 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		12/04/20 22:40	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/04/20 22:40	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/04/20 22:40	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		12/04/20 22:40	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		12/04/20 22:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 22:40	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/04/20 22:40	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 22:40	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		12/04/20 22:40	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/04/20 22:40	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 22:40	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/04/20 22:40	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/20 22:40	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/04/20 22:40	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/04/20 22:40	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/04/20 22:40	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		12/04/20 22:40	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		12/04/20 22:40	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/04/20 22:40	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		12/04/20 22:40	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RW7 **Lab ID: 40219260003** Collected: 12/02/20 07:05 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		12/04/20 23:02	67-64-1	
Benzene	3.1	ug/L	1.0	0.25	1		12/04/20 23:02	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		12/04/20 23:02	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		12/04/20 23:02	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/04/20 23:02	108-90-7	
Chloroethane	61.4	ug/L	5.0	1.3	1		12/04/20 23:02	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/04/20 23:02	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/04/20 23:02	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/04/20 23:02	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/04/20 23:02	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/04/20 23:02	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/04/20 23:02	75-71-8	
1,1-Dichloroethane	32.7	ug/L	1.0	0.27	1		12/04/20 23:02	75-34-3	
1,2-Dichloroethane	0.70J	ug/L	1.0	0.28	1		12/04/20 23:02	107-06-2	
1,1-Dichloroethene	0.84J	ug/L	1.0	0.24	1		12/04/20 23:02	75-35-4	
cis-1,2-Dichloroethene	30.1	ug/L	1.0	0.27	1		12/04/20 23:02	156-59-2	
trans-1,2-Dichloroethene	3.1	ug/L	1.5	0.46	1		12/04/20 23:02	156-60-5	
1,2-Dichloropropane	0.28J	ug/L	1.0	0.28	1		12/04/20 23:02	78-87-5	
Ethylbenzene	31.3	ug/L	1.1	0.32	1		12/04/20 23:02	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		12/04/20 23:02	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		12/04/20 23:02	98-82-8	
Methylene Chloride	0.85J	ug/L	5.0	0.58	1		12/04/20 23:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		12/04/20 23:02	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/04/20 23:02	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/04/20 23:02	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		12/04/20 23:02	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		12/04/20 23:02	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 23:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/04/20 23:02	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 23:02	127-18-4	
Toluene	10.3	ug/L	1.0	0.27	1		12/04/20 23:02	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/04/20 23:02	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 23:02	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/04/20 23:02	79-00-5	
Trichloroethene	2.7	ug/L	1.0	0.26	1		12/04/20 23:02	79-01-6	
1,2,4-Trimethylbenzene	1.8J	ug/L	2.8	0.84	1		12/04/20 23:02	95-63-6	
1,3,5-Trimethylbenzene	1.8J	ug/L	2.9	0.87	1		12/04/20 23:02	108-67-8	
Vinyl chloride	19.8	ug/L	1.0	0.17	1		12/04/20 23:02	75-01-4	
Xylene (Total)	168	ug/L	3.0	1.5	1		12/04/20 23:02	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		12/04/20 23:02	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/04/20 23:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		12/04/20 23:02	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RW10 **Lab ID: 40219260004** Collected: 12/02/20 06:45 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	30500	ug/L	4000	548	200		12/05/20 02:02	67-64-1	
Benzene	<49.3	ug/L	200	49.3	200		12/05/20 02:02	71-43-2	
2-Butanone (MEK)	42500	ug/L	4000	587	200		12/05/20 02:02	78-93-3	
Carbon tetrachloride	<215	ug/L	718	215	200		12/05/20 02:02	56-23-5	
Chlorobenzene	<142	ug/L	474	142	200		12/05/20 02:02	108-90-7	
Chloroethane	<268	ug/L	1000	268	200		12/05/20 02:02	75-00-3	
Chloroform	<255	ug/L	1000	255	200		12/05/20 02:02	67-66-3	
Chloromethane	<438	ug/L	1460	438	200		12/05/20 02:02	74-87-3	
1,2-Dichlorobenzene	<141	ug/L	470	141	200		12/05/20 02:02	95-50-1	
1,3-Dichlorobenzene	<126	ug/L	419	126	200		12/05/20 02:02	541-73-1	
1,4-Dichlorobenzene	<189	ug/L	629	189	200		12/05/20 02:02	106-46-7	
Dichlorodifluoromethane	<99.9	ug/L	1000	99.9	200		12/05/20 02:02	75-71-8	
1,1-Dichloroethane	<54.5	ug/L	200	54.5	200		12/05/20 02:02	75-34-3	
1,2-Dichloroethane	<56.0	ug/L	200	56.0	200		12/05/20 02:02	107-06-2	
1,1-Dichloroethene	<49.0	ug/L	200	49.0	200		12/05/20 02:02	75-35-4	
cis-1,2-Dichloroethene	216	ug/L	200	54.2	200		12/05/20 02:02	156-59-2	
trans-1,2-Dichloroethene	<92.8	ug/L	309	92.8	200		12/05/20 02:02	156-60-5	
1,2-Dichloropropane	<56.6	ug/L	200	56.6	200		12/05/20 02:02	78-87-5	
Ethylbenzene	937	ug/L	212	63.7	200		12/05/20 02:02	100-41-4	
n-Hexane	<342	ug/L	1140	342	200		12/05/20 02:02	110-54-3	
Isopropylbenzene (Cumene)	<337	ug/L	1120	337	200		12/05/20 02:02	98-82-8	
Methylene Chloride	<116	ug/L	1000	116	200		12/05/20 02:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<927	ug/L	3090	927	200		12/05/20 02:02	108-10-1	
Methyl-tert-butyl ether	<249	ug/L	831	249	200		12/05/20 02:02	1634-04-4	
Naphthalene	<235	ug/L	1000	235	200		12/05/20 02:02	91-20-3	
2-Propanol	9360J	ug/L	50000	5780	200		12/05/20 02:02	67-63-0	
Styrene	<602	ug/L	2010	602	200		12/05/20 02:02	100-42-5	
1,1,1,2-Tetrachloroethane	<53.8	ug/L	200	53.8	200		12/05/20 02:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	<55.1	ug/L	200	55.1	200		12/05/20 02:02	79-34-5	
Tetrachloroethene	<65.3	ug/L	218	65.3	200		12/05/20 02:02	127-18-4	
Toluene	10400	ug/L	200	53.9	200		12/05/20 02:02	108-88-3	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		12/05/20 02:02	120-82-1	
1,1,1-Trichloroethane	576	ug/L	200	49.0	200		12/05/20 02:02	71-55-6	
1,1,2-Trichloroethane	<110	ug/L	1000	110	200		12/05/20 02:02	79-00-5	
Trichloroethene	421	ug/L	200	51.0	200		12/05/20 02:02	79-01-6	
1,2,4-Trimethylbenzene	<168	ug/L	560	168	200		12/05/20 02:02	95-63-6	
1,3,5-Trimethylbenzene	<175	ug/L	582	175	200		12/05/20 02:02	108-67-8	
Vinyl chloride	<34.9	ug/L	200	34.9	200		12/05/20 02:02	75-01-4	
Xylene (Total)	4310	ug/L	600	300	200		12/05/20 02:02	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		200		12/05/20 02:02	1868-53-7	
Toluene-d8 (S)	103	%	70-130		200		12/05/20 02:02	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		200		12/05/20 02:02	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RW11 **Lab ID: 40219260005** Collected: 12/02/20 06:50 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<343	ug/L	2500	343	125		12/05/20 02:24	67-64-1	
Benzene	<30.8	ug/L	125	30.8	125		12/05/20 02:24	71-43-2	
2-Butanone (MEK)	<367	ug/L	2500	367	125		12/05/20 02:24	78-93-3	
Carbon tetrachloride	<135	ug/L	449	135	125		12/05/20 02:24	56-23-5	
Chlorobenzene	<88.9	ug/L	296	88.9	125		12/05/20 02:24	108-90-7	
Chloroethane	<168	ug/L	625	168	125		12/05/20 02:24	75-00-3	
Chloroform	<159	ug/L	625	159	125		12/05/20 02:24	67-66-3	
Chloromethane	<274	ug/L	912	274	125		12/05/20 02:24	74-87-3	
1,2-Dichlorobenzene	<88.2	ug/L	294	88.2	125		12/05/20 02:24	95-50-1	
1,3-Dichlorobenzene	<78.5	ug/L	262	78.5	125		12/05/20 02:24	541-73-1	
1,4-Dichlorobenzene	<118	ug/L	393	118	125		12/05/20 02:24	106-46-7	
Dichlorodifluoromethane	<62.4	ug/L	625	62.4	125		12/05/20 02:24	75-71-8	
1,1-Dichloroethane	263	ug/L	125	34.1	125		12/05/20 02:24	75-34-3	
1,2-Dichloroethane	<35.0	ug/L	125	35.0	125		12/05/20 02:24	107-06-2	
1,1-Dichloroethene	<30.6	ug/L	125	30.6	125		12/05/20 02:24	75-35-4	
cis-1,2-Dichloroethene	1190	ug/L	125	33.9	125		12/05/20 02:24	156-59-2	
trans-1,2-Dichloroethene	<58.0	ug/L	193	58.0	125		12/05/20 02:24	156-60-5	
1,2-Dichloropropane	<35.3	ug/L	125	35.3	125		12/05/20 02:24	78-87-5	
Ethylbenzene	348	ug/L	133	39.8	125		12/05/20 02:24	100-41-4	
n-Hexane	<214	ug/L	712	214	125		12/05/20 02:24	110-54-3	
Isopropylbenzene (Cumene)	<211	ug/L	702	211	125		12/05/20 02:24	98-82-8	
Methylene Chloride	<72.6	ug/L	625	72.6	125		12/05/20 02:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<580	ug/L	1930	580	125		12/05/20 02:24	108-10-1	
Methyl-tert-butyl ether	<156	ug/L	519	156	125		12/05/20 02:24	1634-04-4	
Naphthalene	<147	ug/L	625	147	125		12/05/20 02:24	91-20-3	
2-Propanol	<3610	ug/L	31200	3610	125		12/05/20 02:24	67-63-0	
Styrene	<376	ug/L	1250	376	125		12/05/20 02:24	100-42-5	
1,1,1,2-Tetrachloroethane	<33.6	ug/L	125	33.6	125		12/05/20 02:24	630-20-6	
1,1,1,2,2-Tetrachloroethane	<34.4	ug/L	125	34.4	125		12/05/20 02:24	79-34-5	
Tetrachloroethene	<40.8	ug/L	136	40.8	125		12/05/20 02:24	127-18-4	
Toluene	5150	ug/L	125	33.7	125		12/05/20 02:24	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		12/05/20 02:24	120-82-1	
1,1,1-Trichloroethane	332	ug/L	125	30.6	125		12/05/20 02:24	71-55-6	
1,1,2-Trichloroethane	<69.0	ug/L	625	69.0	125		12/05/20 02:24	79-00-5	
Trichloroethene	<31.9	ug/L	125	31.9	125		12/05/20 02:24	79-01-6	
1,2,4-Trimethylbenzene	243J	ug/L	350	105	125		12/05/20 02:24	95-63-6	
1,3,5-Trimethylbenzene	<109	ug/L	364	109	125		12/05/20 02:24	108-67-8	
Vinyl chloride	105J	ug/L	125	21.8	125		12/05/20 02:24	75-01-4	
Xylene (Total)	5060	ug/L	375	188	125		12/05/20 02:24	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		125		12/05/20 02:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		125		12/05/20 02:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		125		12/05/20 02:24	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RW12 **Lab ID: 40219260006** Collected: 12/02/20 06:46 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	9040	ug/L	5000	685	250		12/05/20 02:47	67-64-1	
Benzene	65.4J	ug/L	250	61.6	250		12/05/20 02:47	71-43-2	
2-Butanone (MEK)	4670J	ug/L	5000	734	250		12/05/20 02:47	78-93-3	
Carbon tetrachloride	<269	ug/L	897	269	250		12/05/20 02:47	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		12/05/20 02:47	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		12/05/20 02:47	75-00-3	
Chloroform	<318	ug/L	1250	318	250		12/05/20 02:47	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		12/05/20 02:47	74-87-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		12/05/20 02:47	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		12/05/20 02:47	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		12/05/20 02:47	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		12/05/20 02:47	75-71-8	
1,1-Dichloroethane	1120	ug/L	250	68.1	250		12/05/20 02:47	75-34-3	
1,2-Dichloroethane	84.0J	ug/L	250	70.0	250		12/05/20 02:47	107-06-2	
1,1-Dichloroethene	138J	ug/L	250	61.2	250		12/05/20 02:47	75-35-4	
cis-1,2-Dichloroethene	3720	ug/L	250	67.8	250		12/05/20 02:47	156-59-2	
trans-1,2-Dichloroethene	<116	ug/L	387	116	250		12/05/20 02:47	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		12/05/20 02:47	78-87-5	
Ethylbenzene	2620	ug/L	266	79.6	250		12/05/20 02:47	100-41-4	
n-Hexane	<427	ug/L	1420	427	250		12/05/20 02:47	110-54-3	
Isopropylbenzene (Cumene)	<422	ug/L	1400	422	250		12/05/20 02:47	98-82-8	
Methylene Chloride	972J	ug/L	1250	145	250		12/05/20 02:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	3940	ug/L	3860	1160	250		12/05/20 02:47	108-10-1	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		12/05/20 02:47	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		12/05/20 02:47	91-20-3	
2-Propanol	58200J	ug/L	62500	7230	250		12/05/20 02:47	67-63-0	
Styrene	<752	ug/L	2510	752	250		12/05/20 02:47	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		12/05/20 02:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		12/05/20 02:47	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		12/05/20 02:47	127-18-4	
Toluene	42300	ug/L	250	67.4	250		12/05/20 02:47	108-88-3	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		12/05/20 02:47	120-82-1	
1,1,1-Trichloroethane	1380	ug/L	250	61.2	250		12/05/20 02:47	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		12/05/20 02:47	79-00-5	
Trichloroethene	325	ug/L	250	63.8	250		12/05/20 02:47	79-01-6	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		12/05/20 02:47	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		12/05/20 02:47	108-67-8	
Vinyl chloride	296	ug/L	250	43.7	250		12/05/20 02:47	75-01-4	
Xylene (Total)	9880	ug/L	750	375	250		12/05/20 02:47	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		250		12/05/20 02:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		250		12/05/20 02:47	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		250		12/05/20 02:47	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: RW13 **Lab ID: 40219260007** Collected: 12/02/20 07:15 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	9790	ug/L	2000	274	100		12/05/20 03:09	67-64-1	
Benzene	<24.6	ug/L	100	24.6	100		12/05/20 03:09	71-43-2	
2-Butanone (MEK)	2290	ug/L	2000	294	100		12/05/20 03:09	78-93-3	
Carbon tetrachloride	<108	ug/L	359	108	100		12/05/20 03:09	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		12/05/20 03:09	108-90-7	
Chloroethane	163J	ug/L	500	134	100		12/05/20 03:09	75-00-3	
Chloroform	<127	ug/L	500	127	100		12/05/20 03:09	67-66-3	
Chloromethane	<219	ug/L	730	219	100		12/05/20 03:09	74-87-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		12/05/20 03:09	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		12/05/20 03:09	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		12/05/20 03:09	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		12/05/20 03:09	75-71-8	
1,1-Dichloroethane	80.5J	ug/L	100	27.3	100		12/05/20 03:09	75-34-3	
1,2-Dichloroethane	28.4J	ug/L	100	28.0	100		12/05/20 03:09	107-06-2	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		12/05/20 03:09	75-35-4	
cis-1,2-Dichloroethene	165	ug/L	100	27.1	100		12/05/20 03:09	156-59-2	
trans-1,2-Dichloroethene	<46.4	ug/L	155	46.4	100		12/05/20 03:09	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		12/05/20 03:09	78-87-5	
Ethylbenzene	984	ug/L	106	31.9	100		12/05/20 03:09	100-41-4	
n-Hexane	<171	ug/L	570	171	100		12/05/20 03:09	110-54-3	
Isopropylbenzene (Cumene)	<169	ug/L	562	169	100		12/05/20 03:09	98-82-8	
Methylene Chloride	<58.1	ug/L	500	58.1	100		12/05/20 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	1330J	ug/L	1550	464	100		12/05/20 03:09	108-10-1	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		12/05/20 03:09	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		12/05/20 03:09	91-20-3	
2-Propanol	8420J	ug/L	25000	2890	100		12/05/20 03:09	67-63-0	
Styrene	<301	ug/L	1000	301	100		12/05/20 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		12/05/20 03:09	630-20-6	
1,1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		12/05/20 03:09	79-34-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		12/05/20 03:09	127-18-4	
Toluene	12200	ug/L	100	26.9	100		12/05/20 03:09	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		12/05/20 03:09	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		12/05/20 03:09	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		12/05/20 03:09	79-00-5	
Trichloroethene	<25.5	ug/L	100	25.5	100		12/05/20 03:09	79-01-6	
1,2,4-Trimethylbenzene	89.9J	ug/L	280	84.1	100		12/05/20 03:09	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		12/05/20 03:09	108-67-8	
Vinyl chloride	47.4J	ug/L	100	17.5	100		12/05/20 03:09	75-01-4	
Xylene (Total)	3340	ug/L	300	150	100		12/05/20 03:09	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		100		12/05/20 03:09	1868-53-7	
Toluene-d8 (S)	103	%	70-130		100		12/05/20 03:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		100		12/05/20 03:09	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40219260

Sample: TRIP BLANK Lab ID: 40219260008 Collected: 12/02/20 00:00 Received: 12/03/20 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		12/07/20 07:26	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		12/07/20 07:26	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		12/07/20 07:26	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		12/07/20 07:26	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/07/20 07:26	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/07/20 07:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/07/20 07:26	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/07/20 07:26	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/07/20 07:26	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/07/20 07:26	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/07/20 07:26	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/07/20 07:26	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/07/20 07:26	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/07/20 07:26	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/07/20 07:26	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/07/20 07:26	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/07/20 07:26	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/07/20 07:26	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		12/07/20 07:26	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		12/07/20 07:26	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		12/07/20 07:26	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/07/20 07:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		12/07/20 07:26	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/07/20 07:26	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/07/20 07:26	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		12/07/20 07:26	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		12/07/20 07:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/07/20 07:26	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/07/20 07:26	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/07/20 07:26	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		12/07/20 07:26	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/07/20 07:26	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/07/20 07:26	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/07/20 07:26	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/07/20 07:26	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/07/20 07:26	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/07/20 07:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/07/20 07:26	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		12/07/20 07:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		12/07/20 07:26	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/07/20 07:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		12/07/20 07:26	460-00-4	

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40219260

QC Batch: 372948	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219260001

METHOD BLANK: 2155744 Matrix: Water
Associated Lab Samples: 40219260001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<2.9	20.0	12/04/20 07:47	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.6	15.5	12/04/20 07:47	
Acetone	ug/L	<2.7	20.0	12/04/20 07:47	
Chloromethane	ug/L	<2.2	7.3	12/04/20 07:47	
Methylene Chloride	ug/L	<0.58	5.0	12/04/20 07:47	
4-Bromofluorobenzene (S)	%	92	70-130	12/04/20 07:47	
Dibromofluoromethane (S)	%	105	70-130	12/04/20 07:47	
Toluene-d8 (S)	%	102	70-130	12/04/20 07:47	

LABORATORY CONTROL SAMPLE: 2155745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	45.8	92	32-143	
Methylene Chloride	ug/L	50	53.0	106	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2155746 2155747

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40219268001 Result	Spike Conc.	Spike Conc.	Result						
Chloromethane	ug/L	<2.2	50	50	45.3	47.2	90	94	32-143	4	20
Methylene Chloride	ug/L	<0.58	50	50	52.7	54.6	105	109	68-137	4	20
4-Bromofluorobenzene (S)	%						104	102	70-130		
Dibromofluoromethane (S)	%						100	107	70-130		
Toluene-d8 (S)	%						104	101	70-130		

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40219260

QC Batch: 372983 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219260002, 40219260003, 40219260004, 40219260005, 40219260006, 40219260007, 40219260008

METHOD BLANK: 2155873 Matrix: Water
Associated Lab Samples: 40219260002, 40219260003, 40219260004, 40219260005, 40219260006, 40219260007, 40219260008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/04/20 16:40	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/04/20 16:40	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/04/20 16:40	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/04/20 16:40	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/04/20 16:40	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/04/20 16:40	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/04/20 16:40	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/04/20 16:40	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/04/20 16:40	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/04/20 16:40	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/04/20 16:40	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/04/20 16:40	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/04/20 16:40	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/04/20 16:40	
2-Butanone (MEK)	ug/L	<2.9	20.0	12/04/20 16:40	
2-Propanol	ug/L	<28.9	250	12/04/20 16:40	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.6	15.5	12/04/20 16:40	
Acetone	ug/L	<2.7	20.0	12/04/20 16:40	
Benzene	ug/L	<0.25	1.0	12/04/20 16:40	
Carbon tetrachloride	ug/L	<1.1	3.6	12/04/20 16:40	
Chlorobenzene	ug/L	<0.71	2.4	12/04/20 16:40	
Chloroethane	ug/L	<1.3	5.0	12/04/20 16:40	
Chloroform	ug/L	<1.3	5.0	12/04/20 16:40	
Chloromethane	ug/L	<2.2	7.3	12/04/20 16:40	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/04/20 16:40	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/04/20 16:40	
Ethylbenzene	ug/L	<0.32	1.1	12/04/20 16:40	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	12/04/20 16:40	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/04/20 16:40	
Methylene Chloride	ug/L	<0.58	5.0	12/04/20 16:40	
n-Hexane	ug/L	<1.7	5.7	12/04/20 16:40	
Naphthalene	ug/L	<1.2	5.0	12/04/20 16:40	
Styrene	ug/L	<3.0	10.0	12/04/20 16:40	
Tetrachloroethane	ug/L	<0.33	1.1	12/04/20 16:40	
Toluene	ug/L	<0.27	1.0	12/04/20 16:40	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	12/04/20 16:40	
Trichloroethene	ug/L	<0.26	1.0	12/04/20 16:40	
Vinyl chloride	ug/L	<0.17	1.0	12/04/20 16:40	
Xylene (Total)	ug/L	<1.5	3.0	12/04/20 16:40	
4-Bromofluorobenzene (S)	%	101	70-130	12/04/20 16:40	

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QUALITY CONTROL DATA

Project: MONTHLY VOC

Pace Project No.: 40219260

METHOD BLANK: 2155873

Matrix: Water

Associated Lab Samples: 40219260002, 40219260003, 40219260004, 40219260005, 40219260006, 40219260007, 40219260008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	109	70-130	12/04/20 16:40	
Toluene-d8 (S)	%	103	70-130	12/04/20 16:40	

LABORATORY CONTROL SAMPLE: 2155874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	64-131	
1,1,2-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1-Dichloroethane	ug/L	50	56.0	112	69-163	
1,1-Dichloroethene	ug/L	50	56.1	112	77-123	
1,2,4-Trichlorobenzene	ug/L	50	44.7	89	68-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	58.8	118	78-142	
1,2-Dichloropropane	ug/L	50	54.9	110	86-134	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.9	98	70-130	
Benzene	ug/L	50	54.1	108	70-130	
Carbon tetrachloride	ug/L	50	49.2	98	70-132	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	59.1	118	66-140	
Chloroform	ug/L	50	54.7	109	75-132	
Chloromethane	ug/L	50	54.1	108	32-143	
cis-1,2-Dichloroethene	ug/L	50	52.5	105	70-130	
Dichlorodifluoromethane	ug/L	50	36.2	72	10-141	
Ethylbenzene	ug/L	50	51.7	103	80-120	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
Methyl-tert-butyl ether	ug/L	50	54.1	108	61-129	
Methylene Chloride	ug/L	50	55.5	111	70-130	
Styrene	ug/L	50	49.2	98	70-130	
Tetrachloroethane	ug/L	50	45.8	92	70-130	
Toluene	ug/L	50	50.6	101	80-120	
trans-1,2-Dichloroethene	ug/L	50	57.0	114	70-130	
Trichloroethene	ug/L	50	52.3	105	70-130	
Vinyl chloride	ug/L	50	56.6	113	51-140	
Xylene (Total)	ug/L	150	150	100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALIFIERS

Project: MONTHLY VOC

Pace Project No.: 40219260

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY VOC

Pace Project No.: 40219260

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40219260001	RESERVOIR	EPA 8260	372948		
40219260002	PRODUCTION	EPA 8260	372983		
40219260003	RW7	EPA 8260	372983		
40219260004	RW10	EPA 8260	372983		
40219260005	RW11	EPA 8260	372983		
40219260006	RW12	EPA 8260	372983		
40219260007	RW13	EPA 8260	372983		
40219260008	TRIP BLANK	EPA 8260	372983		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



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CHAIN OF CUSTODY

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

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

Page 1 of 20

40219260

Page 18 of 20

Company Name: **WQA Environmental Svcs**

Branch/Location: **Eric Gunderson**

Project Contact: **Eric Gunderson**

Phone: **715-834-9624**

Project Number: **WQA Environmental Svcs**

Project Name: **WQA**

Project State: **WI**

Sampled By (Print): **Jeremy O'Hara**

Sampled By (Sign): *[Signature]*

PO #: **WQA**

EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

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

PACELAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	
		DATE	TIME		V/I	Pick Label
001	Reservoir	12-2-20	7:00	W	X	8260 short
002	Production	12-2-20	6:40	W	X	8260 Full
003	R157	12-2-20	7:05	W	X	
004	R1510	12-2-20	6:45	W	X	
005	R1511	12-2-20	6:50	W	X	
006	R1512	12-2-20	6:46	W	X	
007	R1513	12-2-20	7:15	W	X	
008	DTB					

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Relinquished By: *[Signature]* Date/Time: **12-2-20 7:35 Am**
 Relinquished By: **Speeche** Date/Time: **12/3/20 0935**
 Relinquished By: *[Signature]* Date/Time: **12/3/20 0935**

Received By: *[Signature]* Date/Time: **12/3/20 0935**
 Received By: *[Signature]* Date/Time: **12/3/20 0935**
 Received By: *[Signature]* Date/Time: **12/3/20 0935**

Invoice To Contact: **Heather Keneally**
 Invoice To Company: **WQA**
 Invoice To Address: **Same as above**
 Invoice To Phone: **715-834-9624**

Mail To Contact: **Eric Gunderson**
 Mail To Company: **WQA Environmental Svcs**
 Mail To Address: **5000 Ryder Rd
Eau Claire, WI 54701**

Quote #: **40219260**

PACELAB Project No. **40219260**
 Receipt Temp = **18T** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

Client Name: WLL ENV

Sample Preservation Receipt Form
Project # 40219260


Pace Analytical Services, LLC
1241 Bellevue Street, Suite 202
Green Bay, WI 54302
Page 19

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

Pace Lab #	Glass			Plastic				Vials				Jars			General		VOA Vials (>6mm) *				Volume (mL)											
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U		WGFU	WPFU	SP5T	ZPLC	GN	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	
001																																2.5/5/10
002																																2.5/5/10
003																																2.5/5/10
004																																2.5/5/10
005																																2.5/5/10
006																																2.5/5/10
007																																2.5/5/10
008																																2.5/5/10
009																																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	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 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)

Client Name: WRR Env.

Project #:

WO# : 40219260



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

Tracking #: SP 003359 03 33720 160960

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: 101 ICorr:

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

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents: Date: <u>12/3/20</u> / Initials: <u>MR</u>
Labeled By Initials: <u>MR</u>

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>CC</u>	<u>MR 12-3-20</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>PI #, NAME, PG#</u>	<u>12/3/20 MR</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC: <u>MR 12-3-20</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>ends in "well": 002</u>	<u>MR 12-3-20</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>DTB received in shipment, lab added to COC.</u>	<u>12/3/20 MR</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>455</u>			

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

January 11, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: MONTHLY VOC
Pace Project No.: 40220612

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY VOC

Pace Project No.: 40220612

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

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SAMPLE SUMMARY

Project: MONTHLY VOC

Pace Project No.: 40220612

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40220612001	RESERVOIR	Water	01/06/21 06:55	01/07/21 09:20
40220612002	PRODUCTION	Water	01/06/21 06:40	01/07/21 09:20
40220612003	RW6	Water	01/06/21 07:00	01/07/21 09:20
40220612004	RW11	Water	01/06/21 06:50	01/07/21 09:20
40220612005	RW12	Water	01/06/21 06:46	01/07/21 09:20
40220612006	RW13	Water	01/06/21 07:05	01/07/21 09:20
40220612007	TRIP BLANK	Water	01/06/21 00:00	01/07/21 09:20

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SAMPLE ANALYTE COUNT

Project: MONTHLY VOC

Pace Project No.: 40220612

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40220612001	RESERVOIR	EPA 8260	HNW	8	PASI-G
40220612002	PRODUCTION	EPA 8260	HNW	42	PASI-G
40220612003	RW6	EPA 8260	HNW	42	PASI-G
40220612004	RW11	EPA 8260	HNW	42	PASI-G
40220612005	RW12	EPA 8260	HNW	42	PASI-G
40220612006	RW13	EPA 8260	HNW	42	PASI-G
40220612007	TRIP BLANK	EPA 8260	HNW	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40220612

Sample: RESERVOIR **Lab ID: 40220612001** Collected: 01/06/21 06:55 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	232	ug/L	100	13.7	5		01/08/21 14:12	67-64-1	
2-Butanone (MEK)	<14.7	ug/L	100	14.7	5		01/08/21 14:12	78-93-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		01/08/21 14:12	74-87-3	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		01/08/21 14:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	<23.2	ug/L	77.3	23.2	5		01/08/21 14:12	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		01/08/21 14:12	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		5		01/08/21 14:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		01/08/21 14:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40220612

Sample: PRODUCTION **Lab ID: 40220612002** Collected: 01/06/21 06:40 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		01/08/21 13:27	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		01/08/21 13:27	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		01/08/21 13:27	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		01/08/21 13:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/08/21 13:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/08/21 13:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/21 13:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/08/21 13:27	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/08/21 13:27	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/08/21 13:27	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/08/21 13:27	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/08/21 13:27	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/08/21 13:27	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/08/21 13:27	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/08/21 13:27	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/08/21 13:27	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		01/08/21 13:27	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/08/21 13:27	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		01/08/21 13:27	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		01/08/21 13:27	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		01/08/21 13:27	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/08/21 13:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		01/08/21 13:27	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/08/21 13:27	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/08/21 13:27	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		01/08/21 13:27	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		01/08/21 13:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/08/21 13:27	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/08/21 13:27	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/08/21 13:27	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		01/08/21 13:27	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/08/21 13:27	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/08/21 13:27	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/08/21 13:27	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/08/21 13:27	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/08/21 13:27	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/08/21 13:27	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/08/21 13:27	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		01/08/21 13:27	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		01/08/21 13:27	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		01/08/21 13:27	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		01/08/21 13:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC
Pace Project No.: 40220612

Sample: RW6 **Lab ID: 40220612003** Collected: 01/06/21 07:00 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2520	ug/L	1000	137	50		01/08/21 14:34	67-64-1	
Benzene	31.9J	ug/L	50.0	12.3	50		01/08/21 14:34	71-43-2	
2-Butanone (MEK)	498J	ug/L	1000	147	50		01/08/21 14:34	78-93-3	
Carbon tetrachloride	<53.8	ug/L	179	53.8	50		01/08/21 14:34	56-23-5	
Chlorobenzene	<35.5	ug/L	118	35.5	50		01/08/21 14:34	108-90-7	
Chloroethane	178J	ug/L	250	67.1	50		01/08/21 14:34	75-00-3	
Chloroform	<63.7	ug/L	250	63.7	50		01/08/21 14:34	67-66-3	
Chloromethane	<109	ug/L	365	109	50		01/08/21 14:34	74-87-3	
1,2-Dichlorobenzene	<35.3	ug/L	118	35.3	50		01/08/21 14:34	95-50-1	
1,3-Dichlorobenzene	<31.4	ug/L	105	31.4	50		01/08/21 14:34	541-73-1	
1,4-Dichlorobenzene	<47.2	ug/L	157	47.2	50		01/08/21 14:34	106-46-7	
Dichlorodifluoromethane	<25.0	ug/L	250	25.0	50		01/08/21 14:34	75-71-8	
1,1-Dichloroethane	16.5J	ug/L	50.0	13.6	50		01/08/21 14:34	75-34-3	
1,2-Dichloroethane	<14.0	ug/L	50.0	14.0	50		01/08/21 14:34	107-06-2	
1,1-Dichloroethene	<12.2	ug/L	50.0	12.2	50		01/08/21 14:34	75-35-4	
cis-1,2-Dichloroethene	<13.6	ug/L	50.0	13.6	50		01/08/21 14:34	156-59-2	
trans-1,2-Dichloroethene	<23.2	ug/L	77.4	23.2	50		01/08/21 14:34	156-60-5	
1,2-Dichloropropane	<14.1	ug/L	50.0	14.1	50		01/08/21 14:34	78-87-5	
Ethylbenzene	266	ug/L	53.1	15.9	50		01/08/21 14:34	100-41-4	
n-Hexane	<85.5	ug/L	285	85.5	50		01/08/21 14:34	110-54-3	
Isopropylbenzene (Cumene)	<84.3	ug/L	281	84.3	50		01/08/21 14:34	98-82-8	
Methylene Chloride	<29.0	ug/L	250	29.0	50		01/08/21 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	842	ug/L	773	232	50		01/08/21 14:34	108-10-1	
Methyl-tert-butyl ether	<62.3	ug/L	208	62.3	50		01/08/21 14:34	1634-04-4	
Naphthalene	<58.8	ug/L	250	58.8	50		01/08/21 14:34	91-20-3	
2-Propanol	2220J	ug/L	12500	1450	50		01/08/21 14:34	67-63-0	
Styrene	<150	ug/L	502	150	50		01/08/21 14:34	100-42-5	
1,1,1,2-Tetrachloroethane	<13.5	ug/L	50.0	13.5	50		01/08/21 14:34	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.8	ug/L	50.0	13.8	50		01/08/21 14:34	79-34-5	
Tetrachloroethene	<16.3	ug/L	54.4	16.3	50		01/08/21 14:34	127-18-4	
Toluene	10900	ug/L	50.0	13.5	50		01/08/21 14:34	108-88-3	
1,2,4-Trichlorobenzene	<47.6	ug/L	250	47.6	50		01/08/21 14:34	120-82-1	
1,1,1-Trichloroethane	<12.2	ug/L	50.0	12.2	50		01/08/21 14:34	71-55-6	
1,1,2-Trichloroethane	<27.6	ug/L	250	27.6	50		01/08/21 14:34	79-00-5	
Trichloroethene	<12.8	ug/L	50.0	12.8	50		01/08/21 14:34	79-01-6	
1,2,4-Trimethylbenzene	<42.0	ug/L	140	42.0	50		01/08/21 14:34	95-63-6	
1,3,5-Trimethylbenzene	<43.7	ug/L	146	43.7	50		01/08/21 14:34	108-67-8	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		01/08/21 14:34	75-01-4	
Xylene (Total)	3300	ug/L	150	75.0	50		01/08/21 14:34	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		50		01/08/21 14:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		01/08/21 14:34	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		50		01/08/21 14:34	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC
Pace Project No.: 40220612

Sample: RW11 **Lab ID: 40220612004** Collected: 01/06/21 06:50 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<343	ug/L	2500	343	125		01/08/21 14:57	67-64-1	
Benzene	<30.8	ug/L	125	30.8	125		01/08/21 14:57	71-43-2	
2-Butanone (MEK)	<367	ug/L	2500	367	125		01/08/21 14:57	78-93-3	
Carbon tetrachloride	<135	ug/L	449	135	125		01/08/21 14:57	56-23-5	
Chlorobenzene	<88.9	ug/L	296	88.9	125		01/08/21 14:57	108-90-7	
Chloroethane	<168	ug/L	625	168	125		01/08/21 14:57	75-00-3	
Chloroform	<159	ug/L	625	159	125		01/08/21 14:57	67-66-3	
Chloromethane	<274	ug/L	912	274	125		01/08/21 14:57	74-87-3	
1,2-Dichlorobenzene	<88.2	ug/L	294	88.2	125		01/08/21 14:57	95-50-1	
1,3-Dichlorobenzene	<78.5	ug/L	262	78.5	125		01/08/21 14:57	541-73-1	
1,4-Dichlorobenzene	<118	ug/L	393	118	125		01/08/21 14:57	106-46-7	
Dichlorodifluoromethane	<62.4	ug/L	625	62.4	125		01/08/21 14:57	75-71-8	
1,1-Dichloroethane	237	ug/L	125	34.1	125		01/08/21 14:57	75-34-3	
1,2-Dichloroethane	<35.0	ug/L	125	35.0	125		01/08/21 14:57	107-06-2	
1,1-Dichloroethene	<30.6	ug/L	125	30.6	125		01/08/21 14:57	75-35-4	
cis-1,2-Dichloroethene	1190	ug/L	125	33.9	125		01/08/21 14:57	156-59-2	
trans-1,2-Dichloroethene	<58.0	ug/L	193	58.0	125		01/08/21 14:57	156-60-5	
1,2-Dichloropropane	<35.3	ug/L	125	35.3	125		01/08/21 14:57	78-87-5	
Ethylbenzene	742	ug/L	133	39.8	125		01/08/21 14:57	100-41-4	
n-Hexane	<214	ug/L	712	214	125		01/08/21 14:57	110-54-3	
Isopropylbenzene (Cumene)	<211	ug/L	702	211	125		01/08/21 14:57	98-82-8	
Methylene Chloride	<72.6	ug/L	625	72.6	125		01/08/21 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<580	ug/L	1930	580	125		01/08/21 14:57	108-10-1	
Methyl-tert-butyl ether	<156	ug/L	519	156	125		01/08/21 14:57	1634-04-4	
Naphthalene	<147	ug/L	625	147	125		01/08/21 14:57	91-20-3	
2-Propanol	<3610	ug/L	31200	3610	125		01/08/21 14:57	67-63-0	
Styrene	<376	ug/L	1250	376	125		01/08/21 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<33.6	ug/L	125	33.6	125		01/08/21 14:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	<34.4	ug/L	125	34.4	125		01/08/21 14:57	79-34-5	
Tetrachloroethene	<40.8	ug/L	136	40.8	125		01/08/21 14:57	127-18-4	
Toluene	7460	ug/L	125	33.7	125		01/08/21 14:57	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		01/08/21 14:57	120-82-1	
1,1,1-Trichloroethane	320	ug/L	125	30.6	125		01/08/21 14:57	71-55-6	
1,1,2-Trichloroethane	<69.0	ug/L	625	69.0	125		01/08/21 14:57	79-00-5	
Trichloroethene	<31.9	ug/L	125	31.9	125		01/08/21 14:57	79-01-6	
1,2,4-Trimethylbenzene	230J	ug/L	350	105	125		01/08/21 14:57	95-63-6	
1,3,5-Trimethylbenzene	<109	ug/L	364	109	125		01/08/21 14:57	108-67-8	
Vinyl chloride	152	ug/L	125	21.8	125		01/08/21 14:57	75-01-4	
Xylene (Total)	5530	ug/L	375	188	125		01/08/21 14:57	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		125		01/08/21 14:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		125		01/08/21 14:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		125		01/08/21 14:57	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC
Pace Project No.: 40220612

Sample: RW12 **Lab ID: 40220612005** Collected: 01/06/21 06:46 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	6670	ug/L	5000	685	250		01/08/21 15:19	67-64-1	
Benzene	<61.6	ug/L	250	61.6	250		01/08/21 15:19	71-43-2	
2-Butanone (MEK)	3360J	ug/L	5000	734	250		01/08/21 15:19	78-93-3	
Carbon tetrachloride	<269	ug/L	897	269	250		01/08/21 15:19	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		01/08/21 15:19	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		01/08/21 15:19	75-00-3	
Chloroform	<318	ug/L	1250	318	250		01/08/21 15:19	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		01/08/21 15:19	74-87-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		01/08/21 15:19	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		01/08/21 15:19	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		01/08/21 15:19	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		01/08/21 15:19	75-71-8	
1,1-Dichloroethane	344	ug/L	250	68.1	250		01/08/21 15:19	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		01/08/21 15:19	107-06-2	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		01/08/21 15:19	75-35-4	
cis-1,2-Dichloroethene	1840	ug/L	250	67.8	250		01/08/21 15:19	156-59-2	
trans-1,2-Dichloroethene	<116	ug/L	387	116	250		01/08/21 15:19	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		01/08/21 15:19	78-87-5	
Ethylbenzene	1220	ug/L	266	79.6	250		01/08/21 15:19	100-41-4	
n-Hexane	<427	ug/L	1420	427	250		01/08/21 15:19	110-54-3	
Isopropylbenzene (Cumene)	<422	ug/L	1400	422	250		01/08/21 15:19	98-82-8	
Methylene Chloride	577J	ug/L	1250	145	250		01/08/21 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	2150J	ug/L	3860	1160	250		01/08/21 15:19	108-10-1	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		01/08/21 15:19	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		01/08/21 15:19	91-20-3	
2-Propanol	27500J	ug/L	62500	7230	250		01/08/21 15:19	67-63-0	
Styrene	<752	ug/L	2510	752	250		01/08/21 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		01/08/21 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		01/08/21 15:19	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		01/08/21 15:19	127-18-4	
Toluene	21000	ug/L	250	67.4	250		01/08/21 15:19	108-88-3	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		01/08/21 15:19	120-82-1	
1,1,1-Trichloroethane	466	ug/L	250	61.2	250		01/08/21 15:19	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		01/08/21 15:19	79-00-5	
Trichloroethene	208J	ug/L	250	63.8	250		01/08/21 15:19	79-01-6	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		01/08/21 15:19	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		01/08/21 15:19	108-67-8	
Vinyl chloride	62.7J	ug/L	250	43.7	250		01/08/21 15:19	75-01-4	
Xylene (Total)	5110	ug/L	750	375	250		01/08/21 15:19	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		250		01/08/21 15:19	1868-53-7	
Toluene-d8 (S)	100	%	70-130		250		01/08/21 15:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		250		01/08/21 15:19	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40220612

Sample: RW13 **Lab ID: 40220612006** Collected: 01/06/21 07:05 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2880	ug/L	2000	274	100		01/08/21 15:41	67-64-1	
Benzene	<24.6	ug/L	100	24.6	100		01/08/21 15:41	71-43-2	
2-Butanone (MEK)	567J	ug/L	2000	294	100		01/08/21 15:41	78-93-3	
Carbon tetrachloride	<108	ug/L	359	108	100		01/08/21 15:41	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		01/08/21 15:41	108-90-7	
Chloroethane	<134	ug/L	500	134	100		01/08/21 15:41	75-00-3	
Chloroform	<127	ug/L	500	127	100		01/08/21 15:41	67-66-3	
Chloromethane	<219	ug/L	730	219	100		01/08/21 15:41	74-87-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		01/08/21 15:41	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		01/08/21 15:41	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		01/08/21 15:41	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		01/08/21 15:41	75-71-8	
1,1-Dichloroethane	51.3J	ug/L	100	27.3	100		01/08/21 15:41	75-34-3	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		01/08/21 15:41	107-06-2	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		01/08/21 15:41	75-35-4	
cis-1,2-Dichloroethene	101	ug/L	100	27.1	100		01/08/21 15:41	156-59-2	
trans-1,2-Dichloroethene	<46.4	ug/L	155	46.4	100		01/08/21 15:41	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		01/08/21 15:41	78-87-5	
Ethylbenzene	871	ug/L	106	31.9	100		01/08/21 15:41	100-41-4	
n-Hexane	<171	ug/L	570	171	100		01/08/21 15:41	110-54-3	
Isopropylbenzene (Cumene)	<169	ug/L	562	169	100		01/08/21 15:41	98-82-8	
Methylene Chloride	<58.1	ug/L	500	58.1	100		01/08/21 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<464	ug/L	1550	464	100		01/08/21 15:41	108-10-1	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		01/08/21 15:41	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		01/08/21 15:41	91-20-3	
2-Propanol	3370J	ug/L	25000	2890	100		01/08/21 15:41	67-63-0	
Styrene	<301	ug/L	1000	301	100		01/08/21 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		01/08/21 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		01/08/21 15:41	79-34-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		01/08/21 15:41	127-18-4	
Toluene	10600	ug/L	100	26.9	100		01/08/21 15:41	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		01/08/21 15:41	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		01/08/21 15:41	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		01/08/21 15:41	79-00-5	
Trichloroethene	<25.5	ug/L	100	25.5	100		01/08/21 15:41	79-01-6	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		01/08/21 15:41	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		01/08/21 15:41	108-67-8	
Vinyl chloride	28.9J	ug/L	100	17.5	100		01/08/21 15:41	75-01-4	
Xylene (Total)	3030	ug/L	300	150	100		01/08/21 15:41	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		100		01/08/21 15:41	1868-53-7	
Toluene-d8 (S)	98	%	70-130		100		01/08/21 15:41	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		100		01/08/21 15:41	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40220612

Sample: TRIP BLANK Lab ID: 40220612007 Collected: 01/06/21 00:00 Received: 01/07/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		01/08/21 10:04	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		01/08/21 10:04	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		01/08/21 10:04	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		01/08/21 10:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/08/21 10:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/08/21 10:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/08/21 10:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/08/21 10:04	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/08/21 10:04	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/08/21 10:04	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/08/21 10:04	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/08/21 10:04	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/08/21 10:04	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/08/21 10:04	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/08/21 10:04	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/08/21 10:04	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		01/08/21 10:04	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/08/21 10:04	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		01/08/21 10:04	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		01/08/21 10:04	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		01/08/21 10:04	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/08/21 10:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		01/08/21 10:04	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/08/21 10:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/08/21 10:04	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		01/08/21 10:04	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		01/08/21 10:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/08/21 10:04	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/08/21 10:04	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/08/21 10:04	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		01/08/21 10:04	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/08/21 10:04	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/08/21 10:04	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/08/21 10:04	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/08/21 10:04	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/08/21 10:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/08/21 10:04	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/08/21 10:04	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		01/08/21 10:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		01/08/21 10:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		01/08/21 10:04	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		01/08/21 10:04	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40220612

QC Batch: 375396	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40220612001

METHOD BLANK: 2168666 Matrix: Water
Associated Lab Samples: 40220612001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<2.9	20.0	01/08/21 07:49	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.6	15.5	01/08/21 07:49	
Acetone	ug/L	<2.7	20.0	01/08/21 07:49	
Chloromethane	ug/L	<2.2	7.3	01/08/21 07:49	
Methylene Chloride	ug/L	<0.58	5.0	01/08/21 07:49	
4-Bromofluorobenzene (S)	%	99	70-130	01/08/21 07:49	
Dibromofluoromethane (S)	%	100	70-130	01/08/21 07:49	
Toluene-d8 (S)	%	99	70-130	01/08/21 07:49	

LABORATORY CONTROL SAMPLE: 2168667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	30.9	62	32-143	
Methylene Chloride	ug/L	50	51.7	103	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40220612

QC Batch: 375397 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40220612002, 40220612003, 40220612004, 40220612005, 40220612006, 40220612007

METHOD BLANK: 2168668 Matrix: Water
Associated Lab Samples: 40220612002, 40220612003, 40220612004, 40220612005, 40220612006, 40220612007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/08/21 07:49	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/08/21 07:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/08/21 07:49	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/08/21 07:49	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/08/21 07:49	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/08/21 07:49	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/08/21 07:49	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/08/21 07:49	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/08/21 07:49	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/08/21 07:49	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/08/21 07:49	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/08/21 07:49	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/08/21 07:49	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/08/21 07:49	
2-Butanone (MEK)	ug/L	<2.9	20.0	01/08/21 07:49	
2-Propanol	ug/L	<28.9	250	01/08/21 07:49	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.6	15.5	01/08/21 07:49	
Acetone	ug/L	<2.7	20.0	01/08/21 07:49	
Benzene	ug/L	<0.25	1.0	01/08/21 07:49	
Carbon tetrachloride	ug/L	<1.1	3.6	01/08/21 07:49	
Chlorobenzene	ug/L	<0.71	2.4	01/08/21 07:49	
Chloroethane	ug/L	<1.3	5.0	01/08/21 07:49	
Chloroform	ug/L	<1.3	5.0	01/08/21 07:49	
Chloromethane	ug/L	<2.2	7.3	01/08/21 07:49	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/08/21 07:49	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/08/21 07:49	
Ethylbenzene	ug/L	<0.32	1.1	01/08/21 07:49	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	01/08/21 07:49	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/08/21 07:49	
Methylene Chloride	ug/L	<0.58	5.0	01/08/21 07:49	
n-Hexane	ug/L	<1.7	5.7	01/08/21 07:49	
Naphthalene	ug/L	<1.2	5.0	01/08/21 07:49	
Styrene	ug/L	<3.0	10.0	01/08/21 07:49	
Tetrachloroethane	ug/L	<0.33	1.1	01/08/21 07:49	
Toluene	ug/L	<0.27	1.0	01/08/21 07:49	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	01/08/21 07:49	
Trichloroethene	ug/L	<0.26	1.0	01/08/21 07:49	
Vinyl chloride	ug/L	<0.17	1.0	01/08/21 07:49	
Xylene (Total)	ug/L	<1.5	3.0	01/08/21 07:49	
4-Bromofluorobenzene (S)	%	99	70-130	01/08/21 07:49	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40220612

METHOD BLANK: 2168668 Matrix: Water
Associated Lab Samples: 40220612002, 40220612003, 40220612004, 40220612005, 40220612006, 40220612007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	100	70-130	01/08/21 07:49	
Toluene-d8 (S)	%	99	70-130	01/08/21 07:49	

LABORATORY CONTROL SAMPLE: 2168669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	64-131	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	45.5	91	69-163	
1,1-Dichloroethene	ug/L	50	54.8	110	77-123	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	68-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	50.7	101	78-142	
1,2-Dichloropropane	ug/L	50	47.1	94	86-134	
1,3-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	47.1	94	70-130	
Carbon tetrachloride	ug/L	50	44.9	90	70-132	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	48.8	98	66-140	
Chloroform	ug/L	50	49.6	99	75-132	
Chloromethane	ug/L	50	30.9	62	32-143	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
Dichlorodifluoromethane	ug/L	50	36.4	73	10-141	
Ethylbenzene	ug/L	50	50.5	101	80-120	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	61-129	
Methylene Chloride	ug/L	50	51.7	103	70-130	
Styrene	ug/L	50	48.4	97	70-130	
Tetrachloroethane	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	49.5	99	80-120	
trans-1,2-Dichloroethene	ug/L	50	55.9	112	70-130	
Trichloroethene	ug/L	50	55.1	110	70-130	
Vinyl chloride	ug/L	50	45.2	90	51-140	
Xylene (Total)	ug/L	150	147	98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY VOC

Pace Project No.: 40220612

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY VOC

Pace Project No.: 40220612

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40220612001	RESERVOIR	EPA 8260	375396		
40220612002	PRODUCTION	EPA 8260	375397		
40220612003	RW6	EPA 8260	375397		
40220612004	RW11	EPA 8260	375397		
40220612005	RW12	EPA 8260	375397		
40220612006	RW13	EPA 8260	375397		
40220612007	TRIP BLANK	EPA 8260	375397		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **WRR**
 Branch/Location:
 Project Contact: **Eric Gunderson**
 Phone: **715-834-9624**
 Project Number:
 Project Name:
 Project State: **WI**
 X Sampled By (Print): **Jeremy Ottum**
 X Sampled By (Sign): *[Signature]*

PO #:
 Regulatory Program:

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	Reservoir	1-6-21	0:55	WW
002	Production	1-6-21	6:40	WW
003	BW 6	1-6-21	7:00	WW
004	BW 11	1-6-21	6:50	WW
005	BW 12	1-6-21	6:46	WW
006	BW 13	1-6-21	7:05	WW
007	Trip Blank ①			

① In shipment Lab added to COL
 1-7-21 *[Signature]*

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1: **gundereg@wrrcs.com**
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *[Signature]* Date/Time: **1-6-2021 7:20 AM**
 Relinquished By: **Spec Dec** Date/Time: **1-7-21 09:20**
 Relinquished By:
 Relinquished By:

Received By: Date/Time:
 Received By: *[Signature]* Date/Time: **1-7-21 09:20**
 Received By:
 Received By:

PACE Project No. **40220612**
 Receipt Temp = **20°C**
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal Present / Not Present **Intact / Not Intact**



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

40220612

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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

Y/N	2	2								
Filtered? (YES/NO)										
Preservation (CODE)*	B	B								
Pick Letter	B	B								
Analysis Requested	8260 short	8260 Full								
	X									
		X								
		X								
		X								
		X								
		X								

Quote #:
Mail To Contact: **Eric Gunderson**
Mail To Company: **WRR Environmental Services**
Mail To Address: **5200 Ryden Rd
 Eau Claire, WI 54701**
Invoice To Contact: **Heather Kennedy**
Invoice To Company: **WRR**
Invoice To Address: **Same as above**
Invoice To Phone: **715-834-9624**
CLIENT COMMENTS | **LAB COMMENTS (Lab Use Only)** | **Profile #**

Sample Condition Upon Receipt Form (SCUR)

Client Name: WRR Env.
Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: _____
WO# : 40220612

40220612

Tracking #: SP 00335903 0062123049
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: ROI **Temp Blank Present:** yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 1-7-21 /Initials: SKW
Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>4CC</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Proj. Info, Pg #</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>In shipment Lab added to COC</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>455</u>		<u>1-7-21 SKW</u>

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

February 10, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: LOI Reservoir Production RW6 R
Pace Project No.: 10546818

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2021. 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 - Minneapolis

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

Sincerely,



Timothy Sandager
timothy.sandager@pacelabs.com
(612)607-6456
Project Manager

Enclosures

cc: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LOI Resesvoir Production RW6 R

Pace Project No.: 10546818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10546818001	Resesvoir	Water	02/02/21 06:50	02/03/21 12:25
10546818002	Production	Water	02/02/21 06:35	02/03/21 12:25
10546818003	RW6	Water	02/02/21 06:55	02/03/21 12:25
10546818004	RW11	Water	02/02/21 06:45	02/03/21 12:25
10546818005	RW12	Water	02/02/21 06:40	02/03/21 12:25
10546818006	RW13	Water	02/02/21 07:00	02/03/21 12:25
10546818007	Trip Blank	Water		02/03/21 12:25

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SAMPLE ANALYTE COUNT

Project: LOI Resesvoir Production RW6 R

Pace Project No.: 10546818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10546818001	Resesvoir	EPA 8260B	NMB	8	PASI-M
10546818002	Production	EPA 8260B	MM3	42	PASI-M
10546818003	RW6	EPA 8260B	MM3	42	PASI-M
10546818004	RW11	EPA 8260B	MM3	42	PASI-M
10546818005	RW12	EPA 8260B	MM3	42	PASI-M
10546818006	RW13	EPA 8260B	MM3	42	PASI-M
10546818007	Trip Blank	EPA 8260B	MM3	42	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: LOI Resesvoir Production RW6 R

Pace Project No.: 10546818

Sample: Resesvoir **Lab ID: 10546818001** Collected: 02/02/21 06:50 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	68.8	ug/L	8.4	2.5	1		02/08/21 17:02	67-64-1	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/08/21 17:02	78-93-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/08/21 17:02	74-87-3	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/08/21 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/08/21 17:02	108-10-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	115	%	71-125		1		02/08/21 17:02	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		02/08/21 17:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		02/08/21 17:02	460-00-4	

Sample: Production **Lab ID: 10546818002** Collected: 02/02/21 06:35 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 14:41	67-64-1	
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 14:41	71-43-2	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 14:41	78-93-3	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 14:41	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 14:41	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 14:41	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 14:41	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 14:41	74-87-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 14:41	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 14:41	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 14:41	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 14:41	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 14:41	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 14:41	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 14:41	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 14:41	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 14:41	156-60-5	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 14:41	78-87-5	
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 14:41	100-41-4	
n-Hexane	<1.8	ug/L	5.9	1.8	1		02/05/21 14:41	110-54-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 14:41	98-82-8	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 14:41	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 14:41	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 14:41	91-20-3	
2-Propanol	<9.9	ug/L	32.8	9.9	1		02/05/21 14:41	67-63-0	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 14:41	100-42-5	

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ANALYTICAL RESULTS

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

Sample: Production **Lab ID: 10546818002** Collected: 02/02/21 06:35 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 14:41	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		02/05/21 14:41	127-18-4	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 14:41	108-88-3	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 14:41	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 14:41	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 14:41	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 14:41	79-01-6	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 14:41	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 14:41	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 14:41	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 14:41	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 14:41	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1		02/05/21 14:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1		02/05/21 14:41	460-00-4	

Sample: RW6 **Lab ID: 10546818003** Collected: 02/02/21 06:55 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	3040	ug/L	168	50.4	20		02/05/21 17:31	67-64-1	
Benzene	30.5	ug/L	8.0	2.4	20		02/05/21 17:31	71-43-2	
2-Butanone (MEK)	587	ug/L	58.8	17.7	20		02/05/21 17:31	78-93-3	
Carbon tetrachloride	<3.4	ug/L	11.2	3.4	20		02/05/21 17:31	56-23-5	
Chlorobenzene	<1.5	ug/L	5.1	1.5	20		02/05/21 17:31	108-90-7	
Chloroethane	163	ug/L	28.2	8.5	20		02/05/21 17:31	75-00-3	
Chloroform	<9.7	ug/L	32.2	9.7	20		02/05/21 17:31	67-66-3	
Chloromethane	<2.9	ug/L	9.7	2.9	20		02/05/21 17:31	74-87-3	
1,2-Dichlorobenzene	4.4J	ug/L	9.1	2.7	20		02/05/21 17:31	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/L	7.8	2.3	20		02/05/21 17:31	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/L	5.4	1.6	20		02/05/21 17:31	106-46-7	
Dichlorodifluoromethane	<3.9	ug/L	13.0	3.9	20		02/05/21 17:31	75-71-8	
1,1-Dichloroethane	20.0	ug/L	11.1	3.3	20		02/05/21 17:31	75-34-3	
1,2-Dichloroethane	<5.1	ug/L	16.9	5.1	20		02/05/21 17:31	107-06-2	
1,1-Dichloroethene	<2.5	ug/L	8.4	2.5	20		02/05/21 17:31	75-35-4	
cis-1,2-Dichloroethene	16.9	ug/L	13.1	3.9	20		02/05/21 17:31	156-59-2	
trans-1,2-Dichloroethene	<3.8	ug/L	12.7	3.8	20		02/05/21 17:31	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	9.3	2.8	20		02/05/21 17:31	78-87-5	
Ethylbenzene	266	ug/L	5.0	1.5	20		02/05/21 17:31	100-41-4	
n-Hexane	<35.4	ug/L	118	35.4	20		02/05/21 17:31	110-54-3	

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ANALYTICAL RESULTS

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

Sample: RW6 **Lab ID: 10546818003** Collected: 02/02/21 06:55 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Isopropylbenzene (Cumene)	<2.6	ug/L	8.7	2.6	20		02/05/21 17:31	98-82-8	
Methylene Chloride	<22.0	ug/L	73.3	22.0	20		02/05/21 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	1080	ug/L	36.3	10.9	20		02/05/21 17:31	108-10-1	
Methyl-tert-butyl ether	<2.3	ug/L	7.7	2.3	20		02/05/21 17:31	1634-04-4	
Naphthalene	<13.6	ug/L	45.3	13.6	20		02/05/21 17:31	91-20-3	
2-Propanol	3520	ug/L	657	197	20		02/05/21 17:31	67-63-0	
Styrene	<2.2	ug/L	7.3	2.2	20		02/05/21 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	<2.6	ug/L	8.7	2.6	20		02/05/21 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	<3.2	ug/L	10.6	3.2	20		02/05/21 17:31	79-34-5	
Tetrachloroethene	<3.5	ug/L	11.6	3.5	20		02/05/21 17:31	127-18-4	
Toluene	11000	ug/L	20.3	6.1	50		02/05/21 17:14	108-88-3	
1,2,4-Trichlorobenzene	<3.8	ug/L	12.7	3.8	20		02/05/21 17:31	120-82-1	
1,1,1-Trichloroethane	6.5J	ug/L	11.3	3.4	20		02/05/21 17:31	71-55-6	
1,1,2-Trichloroethane	<3.8	ug/L	12.7	3.8	20		02/05/21 17:31	79-00-5	
Trichloroethene	<3.0	ug/L	9.9	3.0	20		02/05/21 17:31	79-01-6	
1,2,4-Trimethylbenzene	45.3	ug/L	11.5	3.4	20		02/05/21 17:31	95-63-6	
1,3,5-Trimethylbenzene	14.5	ug/L	8.3	2.5	20		02/05/21 17:31	108-67-8	
Vinyl chloride	5.1J	ug/L	6.6	2.0	20		02/05/21 17:31	75-01-4	
Xylene (Total)	3460	ug/L	19.1	5.7	20		02/05/21 17:31	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	71-125		20		02/05/21 17:31	17060-07-0	
Toluene-d8 (S)	99	%	75-125		20		02/05/21 17:31	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		20		02/05/21 17:31	460-00-4	

Sample: RW11 **Lab ID: 10546818004** Collected: 02/02/21 06:45 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<126	ug/L	420	126	50		02/05/21 18:05	67-64-1	
Benzene	<6.0	ug/L	20.0	6.0	50		02/05/21 18:05	71-43-2	
2-Butanone (MEK)	<44.2	ug/L	147	44.2	50		02/05/21 18:05	78-93-3	
Carbon tetrachloride	<8.4	ug/L	28.0	8.4	50		02/05/21 18:05	56-23-5	
Chlorobenzene	<3.8	ug/L	12.6	3.8	50		02/05/21 18:05	108-90-7	
Chloroethane	<21.2	ug/L	70.6	21.2	50		02/05/21 18:05	75-00-3	
Chloroform	<24.2	ug/L	80.6	24.2	50		02/05/21 18:05	67-66-3	
Chloromethane	<7.3	ug/L	24.3	7.3	50		02/05/21 18:05	74-87-3	
1,2-Dichlorobenzene	<6.8	ug/L	22.6	6.8	50		02/05/21 18:05	95-50-1	
1,3-Dichlorobenzene	<5.8	ug/L	19.5	5.8	50		02/05/21 18:05	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/L	13.6	4.1	50		02/05/21 18:05	106-46-7	
Dichlorodifluoromethane	<9.8	ug/L	32.5	9.8	50		02/05/21 18:05	75-71-8	
1,1-Dichloroethane	198	ug/L	27.6	8.3	50		02/05/21 18:05	75-34-3	

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ANALYTICAL RESULTS

Project: LOI Reservoir Production RW6 R

Sample Project No.: 10546818

Sample: RW11 **Lab ID: 10546818004** Collected: 02/02/21 06:45 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
1,2-Dichloroethane	<12.7	ug/L	42.3	12.7	50		02/05/21 18:05	107-06-2	
1,1-Dichloroethene	<6.3	ug/L	21.0	6.3	50		02/05/21 18:05	75-35-4	
cis-1,2-Dichloroethene	930	ug/L	32.8	9.8	50		02/05/21 18:05	156-59-2	
trans-1,2-Dichloroethene	<9.6	ug/L	31.8	9.6	50		02/05/21 18:05	156-60-5	
1,2-Dichloropropane	<7.0	ug/L	23.1	7.0	50		02/05/21 18:05	78-87-5	
Ethylbenzene	535	ug/L	12.4	3.7	50		02/05/21 18:05	100-41-4	
n-Hexane	<88.5	ug/L	295	88.5	50		02/05/21 18:05	110-54-3	
Isopropylbenzene (Cumene)	10.8J	ug/L	21.8	6.6	50		02/05/21 18:05	98-82-8	
Methylene Chloride	<55.0	ug/L	183	55.0	50		02/05/21 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<27.2	ug/L	90.7	27.2	50		02/05/21 18:05	108-10-1	
Methyl-tert-butyl ether	<5.8	ug/L	19.3	5.8	50		02/05/21 18:05	1634-04-4	
Naphthalene	<34.0	ug/L	113	34.0	50		02/05/21 18:05	91-20-3	
2-Propanol	<493	ug/L	1640	493	50		02/05/21 18:05	67-63-0	
Styrene	20.2	ug/L	18.3	5.5	50		02/05/21 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	<6.6	ug/L	21.8	6.6	50		02/05/21 18:05	630-20-6	
1,1,2,2-Tetrachloroethane	<8.0	ug/L	26.5	8.0	50		02/05/21 18:05	79-34-5	
Tetrachloroethene	<8.7	ug/L	29.0	8.7	50		02/05/21 18:05	127-18-4	
Toluene	5760	ug/L	20.3	6.1	50		02/05/21 18:05	108-88-3	
1,2,4-Trichlorobenzene	<9.5	ug/L	31.6	9.5	50		02/05/21 18:05	120-82-1	
1,1,1-Trichloroethane	258	ug/L	28.3	8.5	50		02/05/21 18:05	71-55-6	
1,1,2-Trichloroethane	<9.6	ug/L	31.8	9.6	50		02/05/21 18:05	79-00-5	
Trichloroethene	<7.4	ug/L	24.8	7.4	50		02/05/21 18:05	79-01-6	
1,2,4-Trimethylbenzene	244	ug/L	28.6	8.6	50		02/05/21 18:05	95-63-6	
1,3,5-Trimethylbenzene	67.0	ug/L	20.6	6.2	50		02/05/21 18:05	108-67-8	
Vinyl chloride	147	ug/L	16.4	4.9	50		02/05/21 18:05	75-01-4	
Xylene (Total)	4870	ug/L	47.8	14.4	50		02/05/21 18:05	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	71-125		50		02/05/21 18:05	17060-07-0	
Toluene-d8 (S)	97	%	75-125		50		02/05/21 18:05	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		50		02/05/21 18:05	460-00-4	

Sample: RW12 **Lab ID: 10546818005** Collected: 02/02/21 06:40 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	13600	ug/L	2100	630	250		02/05/21 16:40	67-64-1	
Benzene	47.6J	ug/L	99.9	30.0	250		02/05/21 16:40	71-43-2	
2-Butanone (MEK)	7720	ug/L	735	221	250		02/05/21 16:40	78-93-3	
Carbon tetrachloride	<42.0	ug/L	140	42.0	250		02/05/21 16:40	56-23-5	
Chlorobenzene	<19.0	ug/L	63.2	19.0	250		02/05/21 16:40	108-90-7	
Chloroethane	<106	ug/L	353	106	250		02/05/21 16:40	75-00-3	

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ANALYTICAL RESULTS

Project: LOI Reservoir Production RW6 R
Pace Project No.: 10546818

Sample: RW12 **Lab ID: 10546818005** Collected: 02/02/21 06:40 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Chloroform	<121	ug/L	403	121	250		02/05/21 16:40	67-66-3	
Chloromethane	<36.5	ug/L	122	36.5	250		02/05/21 16:40	74-87-3	
1,2-Dichlorobenzene	<34.0	ug/L	113	34.0	250		02/05/21 16:40	95-50-1	
1,3-Dichlorobenzene	<29.2	ug/L	97.4	29.2	250		02/05/21 16:40	541-73-1	
1,4-Dichlorobenzene	<20.4	ug/L	68.0	20.4	250		02/05/21 16:40	106-46-7	
Dichlorodifluoromethane	<48.8	ug/L	162	48.8	250		02/05/21 16:40	75-71-8	
1,1-Dichloroethane	570	ug/L	138	41.5	250		02/05/21 16:40	75-34-3	
1,2-Dichloroethane	<63.5	ug/L	211	63.5	250		02/05/21 16:40	107-06-2	
1,1-Dichloroethene	40.8J	ug/L	105	31.5	250		02/05/21 16:40	75-35-4	
cis-1,2-Dichloroethene	3170	ug/L	164	49.2	250		02/05/21 16:40	156-59-2	
trans-1,2-Dichloroethene	<47.8	ug/L	159	47.8	250		02/05/21 16:40	156-60-5	
1,2-Dichloropropane	<34.8	ug/L	116	34.8	250		02/05/21 16:40	78-87-5	
Ethylbenzene	2580	ug/L	62.2	18.7	250		02/05/21 16:40	100-41-4	
n-Hexane	<442	ug/L	1470	442	250		02/05/21 16:40	110-54-3	
Isopropylbenzene (Cumene)	<32.8	ug/L	109	32.8	250		02/05/21 16:40	98-82-8	
Methylene Chloride	852J	ug/L	916	275	250		02/05/21 16:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	3930	ug/L	454	136	250		02/05/21 16:40	108-10-1	
Methyl-tert-butyl ether	<29.0	ug/L	96.6	29.0	250		02/05/21 16:40	1634-04-4	
Naphthalene	<170	ug/L	566	170	250		02/05/21 16:40	91-20-3	
2-Propanol	41400	ug/L	8210	2460	250		02/05/21 16:40	67-63-0	
Styrene	37.1J	ug/L	91.6	27.5	250		02/05/21 16:40	100-42-5	
1,1,1,2-Tetrachloroethane	<32.8	ug/L	109	32.8	250		02/05/21 16:40	630-20-6	
1,1,2,2-Tetrachloroethane	<39.8	ug/L	132	39.8	250		02/05/21 16:40	79-34-5	
Tetrachloroethene	156	ug/L	145	43.5	250		02/05/21 16:40	127-18-4	
Toluene	41900	ug/L	102	30.5	250		02/05/21 16:40	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	158	47.5	250		02/05/21 16:40	120-82-1	
1,1,1-Trichloroethane	1590	ug/L	142	42.5	250		02/05/21 16:40	71-55-6	
1,1,2-Trichloroethane	<47.8	ug/L	159	47.8	250		02/05/21 16:40	79-00-5	
Trichloroethene	638	ug/L	124	37.2	250		02/05/21 16:40	79-01-6	
1,2,4-Trimethylbenzene	140J	ug/L	143	43.0	250		02/05/21 16:40	95-63-6	
1,3,5-Trimethylbenzene	40.9J	ug/L	103	31.0	250		02/05/21 16:40	108-67-8	
Vinyl chloride	207	ug/L	82.2	24.7	250		02/05/21 16:40	75-01-4	
Xylene (Total)	10600	ug/L	239	71.8	250		02/05/21 16:40	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	71-125		250		02/05/21 16:40	17060-07-0	
Toluene-d8 (S)	96	%	75-125		250		02/05/21 16:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		250		02/05/21 16:40	460-00-4	

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ANALYTICAL RESULTS

Project: LOI Resesvoir Production RW6 R

Pace Project No.: 10546818

Sample: RW13 **Lab ID: 10546818006** Collected: 02/02/21 07:00 Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	4940	ug/L	839	252	100		02/05/21 16:57	67-64-1	
Benzene	14.6J	ug/L	40.0	12.0	100		02/05/21 16:57	71-43-2	
2-Butanone (MEK)	1460	ug/L	294	88.3	100		02/05/21 16:57	78-93-3	
Carbon tetrachloride	<16.8	ug/L	55.9	16.8	100		02/05/21 16:57	56-23-5	
Chlorobenzene	<7.6	ug/L	25.3	7.6	100		02/05/21 16:57	108-90-7	
Chloroethane	143	ug/L	141	42.4	100		02/05/21 16:57	75-00-3	
Chloroform	<48.4	ug/L	161	48.4	100		02/05/21 16:57	67-66-3	
Chloromethane	<14.6	ug/L	48.6	14.6	100		02/05/21 16:57	74-87-3	
1,2-Dichlorobenzene	<13.6	ug/L	45.3	13.6	100		02/05/21 16:57	95-50-1	
1,3-Dichlorobenzene	<11.7	ug/L	39.0	11.7	100		02/05/21 16:57	541-73-1	
1,4-Dichlorobenzene	<8.2	ug/L	27.2	8.2	100		02/05/21 16:57	106-46-7	
Dichlorodifluoromethane	<19.5	ug/L	64.9	19.5	100		02/05/21 16:57	75-71-8	
1,1-Dichloroethane	41.6J	ug/L	55.3	16.6	100		02/05/21 16:57	75-34-3	
1,2-Dichloroethane	<25.4	ug/L	84.6	25.4	100		02/05/21 16:57	107-06-2	
1,1-Dichloroethene	<12.6	ug/L	42.0	12.6	100		02/05/21 16:57	75-35-4	
cis-1,2-Dichloroethene	66.0	ug/L	65.6	19.7	100		02/05/21 16:57	156-59-2	
trans-1,2-Dichloroethene	<19.1	ug/L	63.6	19.1	100		02/05/21 16:57	156-60-5	
1,2-Dichloropropane	<13.9	ug/L	46.3	13.9	100		02/05/21 16:57	78-87-5	
Ethylbenzene	958	ug/L	24.9	7.5	100		02/05/21 16:57	100-41-4	
n-Hexane	<177	ug/L	589	177	100		02/05/21 16:57	110-54-3	
Isopropylbenzene (Cumene)	<13.1	ug/L	43.6	13.1	100		02/05/21 16:57	98-82-8	
Methylene Chloride	<110	ug/L	366	110	100		02/05/21 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	917	ug/L	181	54.5	100		02/05/21 16:57	108-10-1	
Methyl-tert-butyl ether	<11.6	ug/L	38.6	11.6	100		02/05/21 16:57	1634-04-4	
Naphthalene	<68.0	ug/L	226	68.0	100		02/05/21 16:57	91-20-3	
2-Propanol	4120	ug/L	3280	986	100		02/05/21 16:57	67-63-0	
Styrene	<11.0	ug/L	36.6	11.0	100		02/05/21 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	<13.1	ug/L	43.6	13.1	100		02/05/21 16:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.9	ug/L	52.9	15.9	100		02/05/21 16:57	79-34-5	
Tetrachloroethene	<17.4	ug/L	57.9	17.4	100		02/05/21 16:57	127-18-4	
Toluene	11300	ug/L	40.6	12.2	100		02/05/21 16:57	108-88-3	
1,2,4-Trichlorobenzene	<19.0	ug/L	63.3	19.0	100		02/05/21 16:57	120-82-1	
1,1,1-Trichloroethane	<17.0	ug/L	56.6	17.0	100		02/05/21 16:57	71-55-6	
1,1,2-Trichloroethane	<19.1	ug/L	63.6	19.1	100		02/05/21 16:57	79-00-5	
Trichloroethene	<14.9	ug/L	49.6	14.9	100		02/05/21 16:57	79-01-6	
1,2,4-Trimethylbenzene	87.1	ug/L	57.3	17.2	100		02/05/21 16:57	95-63-6	
1,3,5-Trimethylbenzene	24.6J	ug/L	41.3	12.4	100		02/05/21 16:57	108-67-8	
Vinyl chloride	19.9J	ug/L	32.9	9.9	100		02/05/21 16:57	75-01-4	
Xylene (Total)	3370	ug/L	95.6	28.7	100		02/05/21 16:57	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	71-125		100		02/05/21 16:57	17060-07-0	
Toluene-d8 (S)	97	%	75-125		100		02/05/21 16:57	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		100		02/05/21 16:57	460-00-4	

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ANALYTICAL RESULTS

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

Sample: Trip Blank **Lab ID: 10546818007** Collected: Received: 02/03/21 12:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 13:50	67-64-1	
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 13:50	71-43-2	
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 13:50	78-93-3	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 13:50	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 13:50	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 13:50	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 13:50	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 13:50	74-87-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 13:50	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 13:50	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 13:50	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 13:50	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 13:50	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 13:50	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 13:50	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 13:50	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 13:50	156-60-5	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 13:50	78-87-5	
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 13:50	100-41-4	
n-Hexane	<1.8	ug/L	5.9	1.8	1		02/05/21 13:50	110-54-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 13:50	98-82-8	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 13:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 13:50	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 13:50	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 13:50	91-20-3	
2-Propanol	<9.9	ug/L	32.8	9.9	1		02/05/21 13:50	67-63-0	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 13:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 13:50	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 13:50	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		02/05/21 13:50	127-18-4	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 13:50	108-88-3	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 13:50	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 13:50	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 13:50	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 13:50	79-01-6	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 13:50	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 13:50	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 13:50	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 13:50	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	71-125		1		02/05/21 13:50	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1		02/05/21 13:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		02/05/21 13:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

QC Batch: 724030 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10546818002, 10546818003, 10546818004, 10546818005, 10546818006, 10546818007

METHOD BLANK: 3859445 Matrix: Water

Associated Lab Samples: 10546818002, 10546818003, 10546818004, 10546818005, 10546818006, 10546818007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	02/05/21 13:02	
1,1,1-Trichloroethane	ug/L	<0.17	0.57	02/05/21 13:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	0.53	02/05/21 13:02	
1,1,2-Trichloroethane	ug/L	<0.19	0.64	02/05/21 13:02	
1,1-Dichloroethane	ug/L	<0.17	0.55	02/05/21 13:02	
1,1-Dichloroethene	ug/L	<0.13	0.42	02/05/21 13:02	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.63	02/05/21 13:02	
1,2,4-Trimethylbenzene	ug/L	<0.17	0.57	02/05/21 13:02	
1,2-Dichlorobenzene	ug/L	<0.14	0.45	02/05/21 13:02	
1,2-Dichloroethane	ug/L	<0.25	0.85	02/05/21 13:02	
1,2-Dichloropropane	ug/L	<0.14	0.46	02/05/21 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.12	0.41	02/05/21 13:02	
1,3-Dichlorobenzene	ug/L	<0.12	0.39	02/05/21 13:02	
1,4-Dichlorobenzene	ug/L	<0.082	0.27	02/05/21 13:02	
2-Butanone (MEK)	ug/L	<0.88	2.9	02/05/21 13:02	
2-Propanol	ug/L	<9.9	32.8	02/05/21 13:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	02/05/21 13:02	
Acetone	ug/L	<2.5	8.4	02/05/21 13:02	
Benzene	ug/L	<0.12	0.40	02/05/21 13:02	
Carbon tetrachloride	ug/L	<0.17	0.56	02/05/21 13:02	
Chlorobenzene	ug/L	<0.076	0.25	02/05/21 13:02	
Chloroethane	ug/L	<0.42	1.4	02/05/21 13:02	
Chloroform	ug/L	<0.48	1.6	02/05/21 13:02	
Chloromethane	ug/L	<0.15	0.49	02/05/21 13:02	
cis-1,2-Dichloroethene	ug/L	<0.20	0.66	02/05/21 13:02	
Dichlorodifluoromethane	ug/L	<0.20	0.65	02/05/21 13:02	
Ethylbenzene	ug/L	<0.075	0.25	02/05/21 13:02	
Isopropylbenzene (Cumene)	ug/L	<0.13	0.44	02/05/21 13:02	
Methyl-tert-butyl ether	ug/L	<0.12	0.39	02/05/21 13:02	
Methylene Chloride	ug/L	<1.1	3.7	02/05/21 13:02	
n-Hexane	ug/L	<1.8	5.9	02/05/21 13:02	
Naphthalene	ug/L	<0.68	2.3	02/05/21 13:02	
Styrene	ug/L	<0.11	0.37	02/05/21 13:02	
Tetrachloroethane	ug/L	<0.17	0.58	02/05/21 13:02	
Toluene	ug/L	<0.12	0.41	02/05/21 13:02	
trans-1,2-Dichloroethene	ug/L	<0.19	0.64	02/05/21 13:02	
Trichloroethene	ug/L	<0.15	0.50	02/05/21 13:02	
Vinyl chloride	ug/L	<0.099	0.33	02/05/21 13:02	
Xylene (Total)	ug/L	<0.29	0.96	02/05/21 13:02	
1,2-Dichloroethane-d4 (S)	%	101	71-125	02/05/21 13:02	

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

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QUALITY CONTROL DATA

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

METHOD BLANK: 3859445

Matrix: Water

Associated Lab Samples: 10546818002, 10546818003, 10546818004, 10546818005, 10546818006, 10546818007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	96	75-125	02/05/21 13:02	
Toluene-d8 (S)	%	98	75-125	02/05/21 13:02	

LABORATORY CONTROL SAMPLE: 3859446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.5	83	67-134	
1,1,1-Trichloroethane	ug/L	20	18.8	94	72-129	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	74-125	
1,1,2-Trichloroethane	ug/L	20	18.0	90	75-125	
1,1-Dichloroethane	ug/L	20	18.1	91	72-128	
1,1-Dichloroethene	ug/L	20	17.0	85	67-130	
1,2,4-Trichlorobenzene	ug/L	20	19.1	95	64-132	
1,2,4-Trimethylbenzene	ug/L	20	18.0	90	75-126	
1,2-Dichlorobenzene	ug/L	20	19.2	96	74-127	
1,2-Dichloroethane	ug/L	20	16.9	85	74-125	
1,2-Dichloropropane	ug/L	20	17.5	88	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.1	90	75-125	
1,3-Dichlorobenzene	ug/L	20	18.9	95	74-127	
1,4-Dichlorobenzene	ug/L	20	18.9	95	73-125	
2-Butanone (MEK)	ug/L	100	84.8	85	66-129	
2-Propanol	ug/L	200	169	84	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	84.4	84	74-129	
Acetone	ug/L	100	88.0	88	50-150	
Benzene	ug/L	20	17.6	88	73-125	
Carbon tetrachloride	ug/L	20	18.5	92	63-135	
Chlorobenzene	ug/L	20	18.8	94	75-125	
Chloroethane	ug/L	20	21.3	106	61-142	
Chloroform	ug/L	20	17.4	87	75-125	
Chloromethane	ug/L	20	19.8	99	64-129	
cis-1,2-Dichloroethene	ug/L	20	16.5	82	74-125	
Dichlorodifluoromethane	ug/L	20	19.4	97	60-135	
Ethylbenzene	ug/L	20	17.8	89	75-125	
Isopropylbenzene (Cumene)	ug/L	20	19.0	95	75-125	
Methyl-tert-butyl ether	ug/L	20	16.7	83	75-125	
Methylene Chloride	ug/L	20	15.7	78	69-125	
n-Hexane	ug/L	50	36.6	73	33-150	
Naphthalene	ug/L	20	17.2	86	69-127	
Styrene	ug/L	20	18.3	91	75-127	
Tetrachloroethene	ug/L	20	19.3	97	69-131	
Toluene	ug/L	20	18.0	90	75-125	
trans-1,2-Dichloroethene	ug/L	20	15.2	76	69-130	
Trichloroethene	ug/L	20	17.6	88	75-130	
Vinyl chloride	ug/L	20	20.9	104	67-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

LABORATORY CONTROL SAMPLE: 3859446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	60	54.7	91	75-125	
1,2-Dichloroethane-d4 (S)	%			103	71-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3861343 3861344

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10546818002 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1,2-Tetrachloroethane	ug/L	<0.13	20	20	16.9	18.2	85	91	57-134	7	30	
1,1,1-Trichloroethane	ug/L	<0.17	20	20	18.6	19.8	93	99	62-136	6	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	20	20	18.0	18.6	90	93	63-127	4	30	
1,1,2-Trichloroethane	ug/L	<0.19	20	20	18.4	20.1	92	101	65-128	9	30	
1,1-Dichloroethane	ug/L	<0.17	20	20	18.5	19.6	92	98	63-128	6	30	
1,1-Dichloroethene	ug/L	<0.13	20	20	17.3	18.1	86	91	59-135	5	30	
1,2,4-Trichlorobenzene	ug/L	<0.19	20	20	19.1	21.4	96	107	54-137	11	30	
1,2,4-Trimethylbenzene	ug/L	<0.17	20	20	18.3	20.2	91	101	68-126	10	30	
1,2-Dichlorobenzene	ug/L	<0.14	20	20	20.0	21.5	100	108	65-130	7	30	
1,2-Dichloroethane	ug/L	<0.25	20	20	17.6	18.5	88	92	58-125	5	30	
1,2-Dichloropropane	ug/L	<0.14	20	20	17.5	18.9	87	95	65-125	8	30	
1,3,5-Trimethylbenzene	ug/L	<0.12	20	20	18.7	20.9	93	104	67-125	11	30	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	19.6	21.6	98	108	68-131	10	30	
1,4-Dichlorobenzene	ug/L	<0.082	20	20	19.2	21.0	96	105	64-127	9	30	
2-Butanone (MEK)	ug/L	<0.88	100	100	83.3	85.6	83	86	54-129	3	30	
2-Propanol	ug/L	<9.9	200	200	174	184	87	92	63-127	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	100	100	90.0	94.6	90	95	61-130	5	30	
Acetone	ug/L	<2.5	100	100	69.5	76.2	69	76	30-150	9	30	
Benzene	ug/L	<0.12	20	20	17.9	19.1	90	96	60-125	7	30	
Carbon tetrachloride	ug/L	<0.17	20	20	18.3	19.5	92	97	63-142	6	30	
Chlorobenzene	ug/L	<0.076	20	20	19.2	20.4	96	102	65-128	6	30	
Chloroethane	ug/L	<0.42	20	20	23.0	23.7	115	119	61-142	3	30	
Chloroform	ug/L	<0.48	20	20	17.2	17.8	86	89	63-125	3	30	
Chloromethane	ug/L	<0.15	20	20	21.3	22.6	107	113	56-132	6	30	
cis-1,2-Dichloroethene	ug/L	<0.20	20	20	16.8	17.9	84	89	63-125	6	30	
Dichlorodifluoromethane	ug/L	<0.20	20	20	21.0	21.8	105	109	59-137	3	30	
Ethylbenzene	ug/L	<0.075	20	20	18.2	20.0	91	100	61-125	9	30	
Isopropylbenzene (Cumene)	ug/L	<0.13	20	20	19.4	21.9	97	109	75-128	12	30	
Methyl-tert-butyl ether	ug/L	<0.12	20	20	17.3	18.6	86	93	61-125	8	30	
Methylene Chloride	ug/L	<1.1	20	20	16.1	17.3	80	86	58-125	7	30	
n-Hexane	ug/L	<1.8	50	50	38.4	40.5	77	81	33-150	5	30	
Naphthalene	ug/L	<0.68	20	20	17.7	20.3	88	101	54-127	14	30	
Styrene	ug/L	<0.11	20	20	18.3	19.8	91	99	66-132	8	30	
Tetrachloroethene	ug/L	<0.17	20	20	20.1	21.9	101	110	66-138	8	30	
Toluene	ug/L	<0.12	20	20	18.4	19.7	91	98	61-125	7	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LOI Resesvoir Production RW6 R

Pace Project No.: 10546818

Parameter	Units	3861343		3861344		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10546818002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
trans-1,2-Dichloroethene	ug/L	<0.19	20	20	15.8	16.3	79	82	60-135	3	30	
Trichloroethene	ug/L	<0.15	20	20	18.1	18.7	91	94	65-137	3	30	
Vinyl chloride	ug/L	<0.099	20	20	22.6	23.2	113	116	63-132	2	30	
Xylene (Total)	ug/L	<0.29	60	60	55.7	61.6	93	103	63-125	10	30	
1,2-Dichloroethane-d4 (S)	%						102	103	71-125			
4-Bromofluorobenzene (S)	%						96	94	75-125			
Toluene-d8 (S)	%						99	99	75-125			

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QUALITY CONTROL DATA

Project: LOI Reservoir Production RW6 R
Pace Project No.: 10546818

QC Batch: 724266 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10546818001

METHOD BLANK: 3860750 Matrix: Water
Associated Lab Samples: 10546818001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<0.88	2.9	02/08/21 13:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	02/08/21 13:28	
Acetone	ug/L	<2.5	8.4	02/08/21 13:28	
Chloromethane	ug/L	<0.15	0.49	02/08/21 13:28	
Methylene Chloride	ug/L	<1.1	3.7	02/08/21 13:28	
1,2-Dichloroethane-d4 (S)	%	116	71-125	02/08/21 13:28	
4-Bromofluorobenzene (S)	%	101	75-125	02/08/21 13:28	
Toluene-d8 (S)	%	100	75-125	02/08/21 13:28	

LABORATORY CONTROL SAMPLE: 3860751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	125	125	66-129	
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	74-129	
Acetone	ug/L	100	116	116	50-150	
Chloromethane	ug/L	20	20.3	101	64-129	
Methylene Chloride	ug/L	20	19.7	99	69-125	
1,2-Dichloroethane-d4 (S)	%			114	71-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3860803 3860804

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10546811001 Result	Spike Conc.	Spike Conc.	Result								
2-Butanone (MEK)	ug/L	ND	100	100	106	109	106	109	54-129	2	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	117	119	117	119	61-130	2	30		
Acetone	ug/L	ND	100	100	83.9	87.6	84	88	30-150	4	30		
Chloromethane	ug/L	ND	20	20	21.1	20.4	105	102	56-132	3	30		
Methylene Chloride	ug/L	ND	20	20	19.1	18.1	96	90	58-125	6	30		
1,2-Dichloroethane-d4 (S)	%						115	115	71-125				
4-Bromofluorobenzene (S)	%						97	101	75-125				
Toluene-d8 (S)	%						98	100	75-125				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LOI Reservoir Production RW6 R

Pace Project No.: 10546818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10546818002	Production	EPA 8260B	724030		
10546818003	RW6	EPA 8260B	724030		
10546818004	RW11	EPA 8260B	724030		
10546818005	RW12	EPA 8260B	724030		
10546818006	RW13	EPA 8260B	724030		
10546818007	Trip Blank	EPA 8260B	724030		
10546818001	Reservoir	EPA 8260B	724266		

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Document Name:
Sample Condition Upon Receipt (SCUR) - MN

Document Revised: 12Aug2020

Page 1 of 1

Document No.:
ENV-FRM-MIN4-0150 Rev.01

Pace Analytical Services -
Minneapolis

Sample Condition
Upon Receipt

Client Name:

Project #:

WRR Environmental Services

WO#: 10546818

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial

PM: TJS Due Date: 02/17/21
CLIENT: WRR

Tracking Number: 003351 03 03421 90965 See Exceptions
ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) Type of Ice: Wet Blue None Dry Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C Average Corrected Temp (no temp blank only): 4.7 °C See Exceptions ENV-FRM-MIN4-0142 1 Container

Correction Factor: +0.1 Cooler Temp Corrected w/temp blank: _____ °C

USDA Regulated Soil: N/A water sample/Other: _____ Date/Initials of Person Examining Contents: RJR 2.3.21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No Chlorine? <input type="checkbox"/> No pH Paper Lot# See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <u>sample 3, 1 vial >6mm</u> See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Tim Sandager

Date: 02/03/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: TJ 3 Page 20 of 21



SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>4.1</td> <td>4.2</td> <td>4.7</td> </tr> <tr> <td>4.1</td> <td>4.2</td> <td></td> </tr> <tr> <td>4.9</td> <td>5.0</td> <td></td> </tr> <tr> <td>5.3</td> <td>5.4</td> <td></td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	4.1	4.2	4.7	4.1	4.2		4.9	5.0		5.3	5.4	
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			
4.1	4.2	4.7																			
4.1	4.2																				
4.9	5.0																				
5.3	5.4																				

Tracking Number/Temperature	

Issue Type:	Container Type	# of Containers
Sample ID	Type	Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

March 08, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: MONTHLY VOC
Pace Project No.: 40222912

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY VOC

Pace Project No.: 40222912

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

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SAMPLE SUMMARY

Project: MONTHLY VOC

Pace Project No.: 40222912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40222912001	RESERVOIR	Water	03/03/21 06:45	03/04/21 09:15
40222912002	PRODUCTION	Water	03/03/21 06:30	03/04/21 09:15
40222912003	RW6	Water	03/03/21 06:50	03/04/21 09:15
40222912004	RW11	Water	03/03/21 06:40	03/04/21 09:15
40222912005	RW12	Water	03/03/21 06:35	03/04/21 09:15
40222912006	RW13	Water	03/03/21 06:55	03/04/21 09:15
40222912007	TRIP BLANK	Water	03/03/21 00:00	03/04/21 09:15

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SAMPLE ANALYTE COUNT

Project: MONTHLY VOC

Pace Project No.: 40222912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40222912001	RESERVOIR	EPA 8260	HNW	42	PASI-G
40222912002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40222912003	RW6	EPA 8260	LAP	42	PASI-G
40222912004	RW11	EPA 8260	LAP	42	PASI-G
40222912005	RW12	EPA 8260	LAP	42	PASI-G
40222912006	RW13	EPA 8260	LAP	42	PASI-G
40222912007	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: RESERVOIR **Lab ID: 40222912001** Collected: 03/03/21 06:45 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	1090	ug/L	100	13.7	5		03/08/21 12:21	67-64-1	
Benzene	<1.2	ug/L	5.0	1.2	5		03/08/21 12:21	71-43-2	
2-Butanone (MEK)	336	ug/L	100	14.7	5		03/08/21 12:21	78-93-3	
Carbon tetrachloride	<5.4	ug/L	17.9	5.4	5		03/08/21 12:21	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		03/08/21 12:21	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		03/08/21 12:21	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		03/08/21 12:21	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		03/08/21 12:21	74-87-3	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		03/08/21 12:21	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		03/08/21 12:21	541-73-1	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		03/08/21 12:21	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		03/08/21 12:21	75-71-8	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		03/08/21 12:21	75-34-3	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		03/08/21 12:21	107-06-2	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		03/08/21 12:21	75-35-4	
cis-1,2-Dichloroethene	<1.4	ug/L	5.0	1.4	5		03/08/21 12:21	156-59-2	
trans-1,2-Dichloroethene	<2.3	ug/L	7.7	2.3	5		03/08/21 12:21	156-60-5	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		03/08/21 12:21	78-87-5	
Ethylbenzene	<1.6	ug/L	5.3	1.6	5		03/08/21 12:21	100-41-4	
n-Hexane	<8.5	ug/L	28.5	8.5	5		03/08/21 12:21	110-54-3	
Isopropylbenzene (Cumene)	<8.4	ug/L	28.1	8.4	5		03/08/21 12:21	98-82-8	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		03/08/21 12:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	50.6J	ug/L	77.3	23.2	5		03/08/21 12:21	108-10-1	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		03/08/21 12:21	1634-04-4	
Naphthalene	<5.9	ug/L	25.0	5.9	5		03/08/21 12:21	91-20-3	
2-Propanol	<145	ug/L	1250	145	5		03/08/21 12:21	67-63-0	
Styrene	<15.0	ug/L	50.2	15.0	5		03/08/21 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		03/08/21 12:21	630-20-6	
1,1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		03/08/21 12:21	79-34-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		03/08/21 12:21	127-18-4	
Toluene	6.7	ug/L	5.0	1.3	5		03/08/21 12:21	108-88-3	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		03/08/21 12:21	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		03/08/21 12:21	71-55-6	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		03/08/21 12:21	79-00-5	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		03/08/21 12:21	79-01-6	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		03/08/21 12:21	95-63-6	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		03/08/21 12:21	108-67-8	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		03/08/21 12:21	75-01-4	
Xylene (Total)	<7.5	ug/L	15.0	7.5	5		03/08/21 12:21	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		5		03/08/21 12:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		03/08/21 12:21	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		5		03/08/21 12:21	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: **PRODUCTION** Lab ID: **40222912002** Collected: 03/03/21 06:30 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		03/05/21 23:08	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		03/05/21 23:08	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		03/05/21 23:08	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		03/05/21 23:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/05/21 23:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/05/21 23:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/05/21 23:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/05/21 23:08	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/05/21 23:08	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/05/21 23:08	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/05/21 23:08	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/05/21 23:08	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/05/21 23:08	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/05/21 23:08	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/05/21 23:08	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/05/21 23:08	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		03/05/21 23:08	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/05/21 23:08	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		03/05/21 23:08	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		03/05/21 23:08	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		03/05/21 23:08	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/05/21 23:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		03/05/21 23:08	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/05/21 23:08	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/05/21 23:08	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		03/05/21 23:08	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		03/05/21 23:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/05/21 23:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/05/21 23:08	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		03/05/21 23:08	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		03/05/21 23:08	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/05/21 23:08	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/05/21 23:08	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/05/21 23:08	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/05/21 23:08	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/05/21 23:08	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/05/21 23:08	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/05/21 23:08	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		03/05/21 23:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		03/05/21 23:08	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/05/21 23:08	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		03/05/21 23:08	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: RW6 **Lab ID: 40222912003** Collected: 03/03/21 06:50 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2990	ug/L	1000	137	50		03/06/21 04:08	67-64-1	
Benzene	38.8J	ug/L	50.0	12.3	50		03/06/21 04:08	71-43-2	
2-Butanone (MEK)	640J	ug/L	1000	147	50		03/06/21 04:08	78-93-3	
Carbon tetrachloride	<53.8	ug/L	179	53.8	50		03/06/21 04:08	56-23-5	
Chlorobenzene	<35.5	ug/L	118	35.5	50		03/06/21 04:08	108-90-7	
Chloroethane	205J	ug/L	250	67.1	50		03/06/21 04:08	75-00-3	
Chloroform	<63.7	ug/L	250	63.7	50		03/06/21 04:08	67-66-3	
Chloromethane	<109	ug/L	365	109	50		03/06/21 04:08	74-87-3	
1,2-Dichlorobenzene	<35.3	ug/L	118	35.3	50		03/06/21 04:08	95-50-1	
1,3-Dichlorobenzene	<31.4	ug/L	105	31.4	50		03/06/21 04:08	541-73-1	
1,4-Dichlorobenzene	<47.2	ug/L	157	47.2	50		03/06/21 04:08	106-46-7	
Dichlorodifluoromethane	<25.0	ug/L	250	25.0	50		03/06/21 04:08	75-71-8	
1,1-Dichloroethane	20.4J	ug/L	50.0	13.6	50		03/06/21 04:08	75-34-3	
1,2-Dichloroethane	<14.0	ug/L	50.0	14.0	50		03/06/21 04:08	107-06-2	
1,1-Dichloroethene	<12.2	ug/L	50.0	12.2	50		03/06/21 04:08	75-35-4	
cis-1,2-Dichloroethene	<13.6	ug/L	50.0	13.6	50		03/06/21 04:08	156-59-2	
trans-1,2-Dichloroethene	<23.2	ug/L	77.4	23.2	50		03/06/21 04:08	156-60-5	
1,2-Dichloropropane	<14.1	ug/L	50.0	14.1	50		03/06/21 04:08	78-87-5	
Ethylbenzene	409	ug/L	53.1	15.9	50		03/06/21 04:08	100-41-4	
n-Hexane	<85.5	ug/L	285	85.5	50		03/06/21 04:08	110-54-3	
Isopropylbenzene (Cumene)	<84.3	ug/L	281	84.3	50		03/06/21 04:08	98-82-8	
Methylene Chloride	<29.0	ug/L	250	29.0	50		03/06/21 04:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	961	ug/L	773	232	50		03/06/21 04:08	108-10-1	
Methyl-tert-butyl ether	<62.3	ug/L	208	62.3	50		03/06/21 04:08	1634-04-4	
Naphthalene	<58.8	ug/L	250	58.8	50		03/06/21 04:08	91-20-3	
2-Propanol	3090J	ug/L	12500	1450	50		03/06/21 04:08	67-63-0	
Styrene	<150	ug/L	502	150	50		03/06/21 04:08	100-42-5	
1,1,1,2-Tetrachloroethane	<13.5	ug/L	50.0	13.5	50		03/06/21 04:08	630-20-6	
1,1,1,2,2-Tetrachloroethane	<13.8	ug/L	50.0	13.8	50		03/06/21 04:08	79-34-5	
Tetrachloroethene	<16.3	ug/L	54.4	16.3	50		03/06/21 04:08	127-18-4	
Toluene	12100	ug/L	50.0	13.5	50		03/06/21 04:08	108-88-3	
1,2,4-Trichlorobenzene	<47.6	ug/L	250	47.6	50		03/06/21 04:08	120-82-1	
1,1,1-Trichloroethane	<12.2	ug/L	50.0	12.2	50		03/06/21 04:08	71-55-6	
1,1,2-Trichloroethane	<27.6	ug/L	250	27.6	50		03/06/21 04:08	79-00-5	
Trichloroethene	<12.8	ug/L	50.0	12.8	50		03/06/21 04:08	79-01-6	
1,2,4-Trimethylbenzene	<42.0	ug/L	140	42.0	50		03/06/21 04:08	95-63-6	
1,3,5-Trimethylbenzene	<43.7	ug/L	146	43.7	50		03/06/21 04:08	108-67-8	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		03/06/21 04:08	75-01-4	
Xylene (Total)	3450	ug/L	150	75.0	50		03/06/21 04:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		50		03/06/21 04:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		50		03/06/21 04:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		50		03/06/21 04:08	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: RW11 Lab ID: 40222912004 Collected: 03/03/21 06:40 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<343	ug/L	2500	343	125		03/06/21 03:25	67-64-1	
Benzene	<30.8	ug/L	125	30.8	125		03/06/21 03:25	71-43-2	
2-Butanone (MEK)	<367	ug/L	2500	367	125		03/06/21 03:25	78-93-3	
Carbon tetrachloride	<135	ug/L	449	135	125		03/06/21 03:25	56-23-5	
Chlorobenzene	<88.9	ug/L	296	88.9	125		03/06/21 03:25	108-90-7	
Chloroethane	<168	ug/L	625	168	125		03/06/21 03:25	75-00-3	
Chloroform	<159	ug/L	625	159	125		03/06/21 03:25	67-66-3	
Chloromethane	<274	ug/L	912	274	125		03/06/21 03:25	74-87-3	
1,2-Dichlorobenzene	<88.2	ug/L	294	88.2	125		03/06/21 03:25	95-50-1	
1,3-Dichlorobenzene	<78.5	ug/L	262	78.5	125		03/06/21 03:25	541-73-1	
1,4-Dichlorobenzene	<118	ug/L	393	118	125		03/06/21 03:25	106-46-7	
Dichlorodifluoromethane	<62.4	ug/L	625	62.4	125		03/06/21 03:25	75-71-8	
1,1-Dichloroethane	200	ug/L	125	34.1	125		03/06/21 03:25	75-34-3	
1,2-Dichloroethane	<35.0	ug/L	125	35.0	125		03/06/21 03:25	107-06-2	
1,1-Dichloroethene	<30.6	ug/L	125	30.6	125		03/06/21 03:25	75-35-4	
cis-1,2-Dichloroethene	883	ug/L	125	33.9	125		03/06/21 03:25	156-59-2	
trans-1,2-Dichloroethene	<58.0	ug/L	193	58.0	125		03/06/21 03:25	156-60-5	
1,2-Dichloropropane	<35.3	ug/L	125	35.3	125		03/06/21 03:25	78-87-5	
Ethylbenzene	1000	ug/L	133	39.8	125		03/06/21 03:25	100-41-4	
n-Hexane	<214	ug/L	712	214	125		03/06/21 03:25	110-54-3	
Isopropylbenzene (Cumene)	<211	ug/L	702	211	125		03/06/21 03:25	98-82-8	
Methylene Chloride	<72.6	ug/L	625	72.6	125		03/06/21 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<580	ug/L	1930	580	125		03/06/21 03:25	108-10-1	
Methyl-tert-butyl ether	<156	ug/L	519	156	125		03/06/21 03:25	1634-04-4	
Naphthalene	<147	ug/L	625	147	125		03/06/21 03:25	91-20-3	
2-Propanol	<3610	ug/L	31200	3610	125		03/06/21 03:25	67-63-0	
Styrene	<376	ug/L	1250	376	125		03/06/21 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	<33.6	ug/L	125	33.6	125		03/06/21 03:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<34.4	ug/L	125	34.4	125		03/06/21 03:25	79-34-5	
Tetrachloroethene	<40.8	ug/L	136	40.8	125		03/06/21 03:25	127-18-4	
Toluene	6770	ug/L	125	33.7	125		03/06/21 03:25	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		03/06/21 03:25	120-82-1	
1,1,1-Trichloroethane	276	ug/L	125	30.6	125		03/06/21 03:25	71-55-6	
1,1,2-Trichloroethane	<69.0	ug/L	625	69.0	125		03/06/21 03:25	79-00-5	
Trichloroethene	<31.9	ug/L	125	31.9	125		03/06/21 03:25	79-01-6	
1,2,4-Trimethylbenzene	212J	ug/L	350	105	125		03/06/21 03:25	95-63-6	
1,3,5-Trimethylbenzene	<109	ug/L	364	109	125		03/06/21 03:25	108-67-8	
Vinyl chloride	138	ug/L	125	21.8	125		03/06/21 03:25	75-01-4	
Xylene (Total)	4750	ug/L	375	188	125		03/06/21 03:25	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		125		03/06/21 03:25	1868-53-7	
Toluene-d8 (S)	97	%	70-130		125		03/06/21 03:25	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		125		03/06/21 03:25	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: RW12 **Lab ID: 40222912005** Collected: 03/03/21 06:35 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	12200	ug/L	5000	685	250		03/06/21 03:04	67-64-1	
Benzene	<61.6	ug/L	250	61.6	250		03/06/21 03:04	71-43-2	
2-Butanone (MEK)	7520	ug/L	5000	734	250		03/06/21 03:04	78-93-3	
Carbon tetrachloride	<269	ug/L	897	269	250		03/06/21 03:04	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		03/06/21 03:04	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		03/06/21 03:04	75-00-3	
Chloroform	<318	ug/L	1250	318	250		03/06/21 03:04	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		03/06/21 03:04	74-87-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		03/06/21 03:04	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		03/06/21 03:04	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		03/06/21 03:04	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		03/06/21 03:04	75-71-8	
1,1-Dichloroethane	611	ug/L	250	68.1	250		03/06/21 03:04	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		03/06/21 03:04	107-06-2	
1,1-Dichloroethene	70.3J	ug/L	250	61.2	250		03/06/21 03:04	75-35-4	
cis-1,2-Dichloroethene	3190	ug/L	250	67.8	250		03/06/21 03:04	156-59-2	
trans-1,2-Dichloroethene	<116	ug/L	387	116	250		03/06/21 03:04	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		03/06/21 03:04	78-87-5	
Ethylbenzene	2260	ug/L	266	79.6	250		03/06/21 03:04	100-41-4	
n-Hexane	<427	ug/L	1420	427	250		03/06/21 03:04	110-54-3	
Isopropylbenzene (Cumene)	<422	ug/L	1400	422	250		03/06/21 03:04	98-82-8	
Methylene Chloride	745J	ug/L	1250	145	250		03/06/21 03:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	3260J	ug/L	3860	1160	250		03/06/21 03:04	108-10-1	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		03/06/21 03:04	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		03/06/21 03:04	91-20-3	
2-Propanol	40700J	ug/L	62500	7230	250		03/06/21 03:04	67-63-0	
Styrene	<752	ug/L	2510	752	250		03/06/21 03:04	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		03/06/21 03:04	630-20-6	
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		03/06/21 03:04	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		03/06/21 03:04	127-18-4	
Toluene	37600	ug/L	250	67.4	250		03/06/21 03:04	108-88-3	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		03/06/21 03:04	120-82-1	
1,1,1-Trichloroethane	1240	ug/L	250	61.2	250		03/06/21 03:04	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		03/06/21 03:04	79-00-5	
Trichloroethene	448	ug/L	250	63.8	250		03/06/21 03:04	79-01-6	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		03/06/21 03:04	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		03/06/21 03:04	108-67-8	
Vinyl chloride	140J	ug/L	250	43.7	250		03/06/21 03:04	75-01-4	
Xylene (Total)	9210	ug/L	750	375	250		03/06/21 03:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		250		03/06/21 03:04	1868-53-7	
Toluene-d8 (S)	98	%	70-130		250		03/06/21 03:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		250		03/06/21 03:04	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40222912

Sample: RW13 **Lab ID: 40222912006** Collected: 03/03/21 06:55 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2950	ug/L	2000	274	100		03/06/21 03:47	67-64-1	
Benzene	<24.6	ug/L	100	24.6	100		03/06/21 03:47	71-43-2	
2-Butanone (MEK)	511J	ug/L	2000	294	100		03/06/21 03:47	78-93-3	
Carbon tetrachloride	<108	ug/L	359	108	100		03/06/21 03:47	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		03/06/21 03:47	108-90-7	
Chloroethane	140J	ug/L	500	134	100		03/06/21 03:47	75-00-3	
Chloroform	<127	ug/L	500	127	100		03/06/21 03:47	67-66-3	
Chloromethane	<219	ug/L	730	219	100		03/06/21 03:47	74-87-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		03/06/21 03:47	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		03/06/21 03:47	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		03/06/21 03:47	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		03/06/21 03:47	75-71-8	
1,1-Dichloroethane	59.6J	ug/L	100	27.3	100		03/06/21 03:47	75-34-3	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		03/06/21 03:47	107-06-2	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		03/06/21 03:47	75-35-4	
cis-1,2-Dichloroethene	83.6J	ug/L	100	27.1	100		03/06/21 03:47	156-59-2	
trans-1,2-Dichloroethene	<46.4	ug/L	155	46.4	100		03/06/21 03:47	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		03/06/21 03:47	78-87-5	
Ethylbenzene	754	ug/L	106	31.9	100		03/06/21 03:47	100-41-4	
n-Hexane	<171	ug/L	570	171	100		03/06/21 03:47	110-54-3	
Isopropylbenzene (Cumene)	<169	ug/L	562	169	100		03/06/21 03:47	98-82-8	
Methylene Chloride	<58.1	ug/L	500	58.1	100		03/06/21 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<464	ug/L	1550	464	100		03/06/21 03:47	108-10-1	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		03/06/21 03:47	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		03/06/21 03:47	91-20-3	
2-Propanol	<2890	ug/L	25000	2890	100		03/06/21 03:47	67-63-0	
Styrene	<301	ug/L	1000	301	100		03/06/21 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		03/06/21 03:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		03/06/21 03:47	79-34-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		03/06/21 03:47	127-18-4	
Toluene	9890	ug/L	100	26.9	100		03/06/21 03:47	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		03/06/21 03:47	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		03/06/21 03:47	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		03/06/21 03:47	79-00-5	
Trichloroethene	<25.5	ug/L	100	25.5	100		03/06/21 03:47	79-01-6	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		03/06/21 03:47	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		03/06/21 03:47	108-67-8	
Vinyl chloride	20.6J	ug/L	100	17.5	100		03/06/21 03:47	75-01-4	
Xylene (Total)	3000	ug/L	300	150	100		03/06/21 03:47	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	70-130		100		03/06/21 03:47	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		03/06/21 03:47	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		100		03/06/21 03:47	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC
Pace Project No.: 40222912

Sample: TRIP BLANK **Lab ID: 40222912007** Collected: 03/03/21 00:00 Received: 03/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<2.7	ug/L	20.0	2.7	1		03/05/21 22:25	67-64-1	
Benzene	<0.25	ug/L	1.0	0.25	1		03/05/21 22:25	71-43-2	
2-Butanone (MEK)	<2.9	ug/L	20.0	2.9	1		03/05/21 22:25	78-93-3	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		03/05/21 22:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/05/21 22:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/05/21 22:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/05/21 22:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/05/21 22:25	74-87-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/05/21 22:25	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/05/21 22:25	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/05/21 22:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/05/21 22:25	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/05/21 22:25	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/05/21 22:25	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/05/21 22:25	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/05/21 22:25	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		03/05/21 22:25	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/05/21 22:25	78-87-5	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		03/05/21 22:25	100-41-4	
n-Hexane	<1.7	ug/L	5.7	1.7	1		03/05/21 22:25	110-54-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		03/05/21 22:25	98-82-8	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/05/21 22:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<4.6	ug/L	15.5	4.6	1		03/05/21 22:25	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/05/21 22:25	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/05/21 22:25	91-20-3	
2-Propanol	<28.9	ug/L	250	28.9	1		03/05/21 22:25	67-63-0	
Styrene	<3.0	ug/L	10.0	3.0	1		03/05/21 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/05/21 22:25	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/05/21 22:25	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		03/05/21 22:25	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		03/05/21 22:25	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/05/21 22:25	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/05/21 22:25	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/05/21 22:25	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/05/21 22:25	79-01-6	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/05/21 22:25	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/05/21 22:25	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/05/21 22:25	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		03/05/21 22:25	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		03/05/21 22:25	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/05/21 22:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		03/05/21 22:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40222912

QC Batch: 379006 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40222912001, 40222912002, 40222912003, 40222912004, 40222912005, 40222912006, 40222912007

METHOD BLANK: 2186378 Matrix: Water
Associated Lab Samples: 40222912001, 40222912002, 40222912003, 40222912004, 40222912005, 40222912006, 40222912007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	03/05/21 17:24	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	03/05/21 17:24	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	03/05/21 17:24	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	03/05/21 17:24	
1,1-Dichloroethane	ug/L	<0.27	1.0	03/05/21 17:24	
1,1-Dichloroethene	ug/L	<0.24	1.0	03/05/21 17:24	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	03/05/21 17:24	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	03/05/21 17:24	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	03/05/21 17:24	
1,2-Dichloroethane	ug/L	<0.28	1.0	03/05/21 17:24	
1,2-Dichloropropane	ug/L	<0.28	1.0	03/05/21 17:24	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	03/05/21 17:24	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	03/05/21 17:24	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	03/05/21 17:24	
2-Butanone (MEK)	ug/L	<2.9	20.0	03/05/21 17:24	
2-Propanol	ug/L	<28.9	250	03/05/21 17:24	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.6	15.5	03/05/21 17:24	
Acetone	ug/L	<2.7	20.0	03/05/21 17:24	
Benzene	ug/L	<0.25	1.0	03/05/21 17:24	
Carbon tetrachloride	ug/L	<1.1	3.6	03/05/21 17:24	
Chlorobenzene	ug/L	<0.71	2.4	03/05/21 17:24	
Chloroethane	ug/L	<1.3	5.0	03/05/21 17:24	
Chloroform	ug/L	<1.3	5.0	03/05/21 17:24	
Chloromethane	ug/L	<2.2	7.3	03/05/21 17:24	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	03/05/21 17:24	
Dichlorodifluoromethane	ug/L	<0.50	5.0	03/05/21 17:24	
Ethylbenzene	ug/L	<0.32	1.1	03/05/21 17:24	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	03/05/21 17:24	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	03/05/21 17:24	
Methylene Chloride	ug/L	<0.58	5.0	03/05/21 17:24	
n-Hexane	ug/L	<1.7	5.7	03/05/21 17:24	
Naphthalene	ug/L	<1.2	5.0	03/05/21 17:24	
Styrene	ug/L	<3.0	10.0	03/05/21 17:24	
Tetrachloroethane	ug/L	<0.33	1.1	03/05/21 17:24	
Toluene	ug/L	<0.27	1.0	03/05/21 17:24	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	03/05/21 17:24	
Trichloroethene	ug/L	<0.26	1.0	03/05/21 17:24	
Vinyl chloride	ug/L	<0.17	1.0	03/05/21 17:24	
Xylene (Total)	ug/L	<1.5	3.0	03/05/21 17:24	
4-Bromofluorobenzene (S)	%	97	70-130	03/05/21 17:24	

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

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QUALITY CONTROL DATA

Project: MONTHLY VOC

Pace Project No.: 40222912

METHOD BLANK: 2186378

Matrix: Water

Associated Lab Samples: 40222912001, 40222912002, 40222912003, 40222912004, 40222912005, 40222912006, 40222912007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	105	70-130	03/05/21 17:24	
Toluene-d8 (S)	%	99	70-130	03/05/21 17:24	

LABORATORY CONTROL SAMPLE: 2186379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	66-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	68-132	
1,1-Dichloroethene	ug/L	50	48.6	97	85-126	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
1,2-Dichloropropane	ug/L	50	50.6	101	78-125	
1,3-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.9	102	70-130	
Benzene	ug/L	50	52.3	105	70-132	
Carbon tetrachloride	ug/L	50	51.1	102	70-130	
Chlorobenzene	ug/L	50	53.0	106	70-130	
Chloroethane	ug/L	50	50.3	101	73-137	
Chloroform	ug/L	50	53.5	107	80-122	
Chloromethane	ug/L	50	41.6	83	27-148	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	35.0	70	22-151	
Ethylbenzene	ug/L	50	52.2	104	80-123	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	70-130	
Methyl-tert-butyl ether	ug/L	50	48.0	96	66-130	
Methylene Chloride	ug/L	50	48.4	97	70-130	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethane	ug/L	50	51.1	102	70-130	
Toluene	ug/L	50	51.8	104	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Vinyl chloride	ug/L	50	43.8	88	63-142	
Xylene (Total)	ug/L	150	158	106	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			99	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40222912

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2187040		2187041		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40222912002 Result	MS Spike Conc.	MSD Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	54.2	54.2	108	108	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	46.3	48.3	93	97	66-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.4	51.3	101	103	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	51.1	50.4	102	101	68-132	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	48.7	49.3	97	99	76-132	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.3	49.2	97	98	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.9	51.6	100	103	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	53.1	53.8	106	108	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50.8	50.8	102	102	77-125	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.5	51.7	99	103	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.7	51.7	99	103	70-130	4	20	
Benzene	ug/L	<0.25	50	50	52.3	52.5	105	105	70-132	0	20	
Carbon tetrachloride	ug/L	<1.1	50	50	51.4	51.2	103	102	70-132	0	20	
Chlorobenzene	ug/L	<0.71	50	50	53.1	53.0	106	106	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	48.7	50.4	97	101	70-137	3	20	
Chloroform	ug/L	<1.3	50	50	52.1	52.5	104	105	80-122	1	20	
Chloromethane	ug/L	<2.2	50	50	41.1	42.2	82	84	17-149	3	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.7	52.5	103	105	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	35.3	35.9	71	72	22-158	2	20	
Ethylbenzene	ug/L	<0.32	50	50	52.8	52.2	106	104	80-123	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	53.8	54.0	108	108	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.2	47.8	94	96	66-130	1	20	
Methylene Chloride	ug/L	<0.58	50	50	48.2	48.9	96	98	70-130	1	20	
Styrene	ug/L	<3.0	50	50	52.5	52.5	105	105	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	51.2	50.8	102	102	70-130	1	20	
Toluene	ug/L	<0.27	50	50	51.6	51.9	103	104	80-121	1	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	50.2	50.5	100	101	70-134	1	20	
Trichloroethene	ug/L	<0.26	50	50	53.8	53.4	108	107	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	44.0	43.5	88	87	61-143	1	20	
Xylene (Total)	ug/L	<1.5	150	150	159	160	106	106	70-130	0	20	
4-Bromofluorobenzene (S)	%						101	99	70-130			
Dibromofluoromethane (S)	%						103	103	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY VOC

Pace Project No.: 40222912

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY VOC

Pace Project No.: 40222912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40222912001	RESERVOIR	EPA 8260	379006		
40222912002	PRODUCTION	EPA 8260	379006		
40222912003	RW6	EPA 8260	379006		
40222912004	RW11	EPA 8260	379006		
40222912005	RW12	EPA 8260	379006		
40222912006	RW13	EPA 8260	379006		
40222912007	TRIP BLANK	EPA 8260	379006		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: WRP EMW

Project # 40222912

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

Lab Lot# of pH paper:

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

Initial when completed:


Date/Time:

Page 18 of 19

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																3																	2.5 / 5 / 10
002																3																	2.5 / 5 / 10
003																3																	2.5 / 5 / 10
004																3																	2.5 / 5 / 10
005																3																	2.5 / 5 / 10
006																3																	2.5 / 5 / 10
007																2																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	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	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 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 #: _____

Client Name: WRL Env.

WO# : 40222912

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



Tracking #: SP03359 03 06321 42543

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: POI / Corr: _____

Person examining contents:	
Date: <u>3/4/21</u>	Initials: <u>MR</u>
Labeled By Initials: <u>MR</u>	

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

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>IV #, name, pg #</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <u>MR3-4-21</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>EDends in "WEL": CO2</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>MR3-4-21</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>OTB received in shipment, lab</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>added to CO.</u>
Pace Trip Blank Lot # (if purchased): <u>459</u>		<u>3/4/21</u>

If checked, see attached form for additional comments

Client Notification/ Resolution:

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

April 26, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: MONTHLY VOC
Pace Project No.: 40225085

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MONTHLY VOC

Pace Project No.: 40225085

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

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SAMPLE SUMMARY

Project: MONTHLY VOC

Pace Project No.: 40225085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40225085001	RESERVOIR	Water	04/13/21 06:45	04/14/21 09:35
40225085002	PRODUCTION	Water	04/13/21 06:30	04/14/21 09:35
40225085003	RW6	Water	04/13/21 06:50	04/14/21 09:35
40225085004	RW11	Water	04/13/21 06:40	04/14/21 09:35
40225085005	RW12	Water	04/13/21 06:35	04/14/21 09:35
40225085006	RW13	Water	04/13/21 06:55	04/14/21 09:35
40225085007	TRIP BLANK	Water	04/13/21 00:00	04/14/21 09:35

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SAMPLE ANALYTE COUNT

Project: MONTHLY VOC

Pace Project No.: 40225085

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40225085001	RESERVOIR	EPA 8260	SMT	8	PASI-G
40225085002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40225085003	RW6	EPA 8260	LAP	42	PASI-G
40225085004	RW11	EPA 8260	LAP	42	PASI-G
40225085005	RW12	EPA 8260	LAP	42	PASI-G
40225085006	RW13	EPA 8260	LAP	42	PASI-G
40225085007	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40225085

Sample: RESERVOIR **Lab ID: 40225085001** Collected: 04/13/21 06:45 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		04/19/21 10:49	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/19/21 10:49	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/19/21 10:49	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/19/21 10:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		04/19/21 10:49	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/19/21 10:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/19/21 10:49	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		04/19/21 10:49	2037-26-5	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40225085

Sample: PRODUCTION **Lab ID: 40225085002** Collected: 04/13/21 06:30 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Acetone	<8.6	ug/L	25.0	8.6	1		04/20/21 08:31	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/20/21 08:31	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/20/21 08:31	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/20/21 08:31	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/20/21 08:31	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/20/21 08:31	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/20/21 08:31	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/20/21 08:31	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 08:31	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/20/21 08:31	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/20/21 08:31	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/20/21 08:31	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 08:31	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/20/21 08:31	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/20/21 08:31	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/20/21 08:31	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/20/21 08:31	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/20/21 08:31	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/20/21 08:31	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		04/20/21 08:31	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		04/20/21 08:31	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/20/21 08:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		04/20/21 08:31	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/20/21 08:31	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/20/21 08:31	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		04/20/21 08:31	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		04/20/21 08:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		04/20/21 08:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		04/20/21 08:31	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/20/21 08:31	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/20/21 08:31	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/20/21 08:31	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/20/21 08:31	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/20/21 08:31	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/20/21 08:31	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		04/20/21 08:31	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		04/20/21 08:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/20/21 08:31	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/20/21 08:31	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	106	%	70-130		1		04/20/21 08:31	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/20/21 08:31	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1		04/20/21 08:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MONTHLY VOC
Pace Project No.: 40225085

Sample: RW6 **Lab ID: 40225085003** Collected: 04/13/21 06:50 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2690	ug/L	1250	432	50		04/19/21 17:58	67-64-1	
Benzene	29.7J	ug/L	50.0	14.8	50		04/19/21 17:58	71-43-2	
2-Butanone (MEK)	419J	ug/L	1250	326	50		04/19/21 17:58	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		04/19/21 17:58	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		04/19/21 17:58	108-90-7	
Chloroethane	173J	ug/L	250	69.0	50		04/19/21 17:58	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		04/19/21 17:58	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		04/19/21 17:58	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		04/19/21 17:58	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		04/19/21 17:58	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		04/19/21 17:58	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		04/19/21 17:58	75-71-8	
1,1-Dichloroethane	19.5J	ug/L	50.0	14.8	50		04/19/21 17:58	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		04/19/21 17:58	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		04/19/21 17:58	75-35-4	
cis-1,2-Dichloroethene	<23.6	ug/L	50.0	23.6	50		04/19/21 17:58	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		04/19/21 17:58	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		04/19/21 17:58	78-87-5	
Ethylbenzene	229	ug/L	50.0	16.3	50		04/19/21 17:58	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		04/19/21 17:58	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		04/19/21 17:58	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		04/19/21 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	868J	ug/L	1250	298	50		04/19/21 17:58	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		04/19/21 17:58	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		04/19/21 17:58	91-20-3	
2-Propanol	3310J	ug/L	5000	493	50		04/19/21 17:58	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		04/19/21 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		04/19/21 17:58	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		04/19/21 17:58	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		04/19/21 17:58	127-18-4	
Toluene	11600	ug/L	50.0	14.4	50		04/19/21 17:58	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		04/19/21 17:58	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		04/19/21 17:58	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		04/19/21 17:58	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		04/19/21 17:58	79-01-6	
1,2,4-Trimethylbenzene	33.2J	ug/L	50.0	22.4	50		04/19/21 17:58	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		04/19/21 17:58	108-67-8	
Vinyl chloride	9.6J	ug/L	50.0	8.7	50		04/19/21 17:58	75-01-4	
Xylene (Total)	3250	ug/L	150	52.4	50		04/19/21 17:58	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		50		04/19/21 17:58	1868-53-7	
Toluene-d8 (S)	101	%	70-130		50		04/19/21 17:58	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		50		04/19/21 17:58	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Project No.: 40225085

Sample: RW11 Lab ID: 40225085004 Collected: 04/13/21 06:40 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<1080	ug/L	3120	1080	125		04/19/21 18:21	67-64-1	
Benzene	<36.9	ug/L	125	36.9	125		04/19/21 18:21	71-43-2	
2-Butanone (MEK)	<815	ug/L	3120	815	125		04/19/21 18:21	78-93-3	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		04/19/21 18:21	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		04/19/21 18:21	108-90-7	
Chloroethane	<172	ug/L	625	172	125		04/19/21 18:21	75-00-3	
Chloroform	<148	ug/L	625	148	125		04/19/21 18:21	67-66-3	
Chloromethane	<204	ug/L	625	204	125		04/19/21 18:21	74-87-3	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		04/19/21 18:21	95-50-1	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		04/19/21 18:21	541-73-1	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		04/19/21 18:21	106-46-7	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		04/19/21 18:21	75-71-8	
1,1-Dichloroethane	158	ug/L	125	37.0	125		04/19/21 18:21	75-34-3	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		04/19/21 18:21	107-06-2	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		04/19/21 18:21	75-35-4	
cis-1,2-Dichloroethene	796	ug/L	125	58.9	125		04/19/21 18:21	156-59-2	
trans-1,2-Dichloroethene	<66.0	ug/L	125	66.0	125		04/19/21 18:21	156-60-5	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		04/19/21 18:21	78-87-5	
Ethylbenzene	1300	ug/L	125	40.6	125		04/19/21 18:21	100-41-4	
n-Hexane	<183	ug/L	625	183	125		04/19/21 18:21	110-54-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		04/19/21 18:21	98-82-8	
Methylene Chloride	<39.9	ug/L	625	39.9	125		04/19/21 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	<744	ug/L	3120	744	125		04/19/21 18:21	108-10-1	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		04/19/21 18:21	1634-04-4	
Naphthalene	<141	ug/L	625	141	125		04/19/21 18:21	91-20-3	
2-Propanol	<1230	ug/L	12500	1230	125		04/19/21 18:21	67-63-0	
Styrene	<44.5	ug/L	125	44.5	125		04/19/21 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		04/19/21 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		04/19/21 18:21	79-34-5	
Tetrachloroethene	<51.1	ug/L	125	51.1	125		04/19/21 18:21	127-18-4	
Toluene	7710	ug/L	125	36.0	125		04/19/21 18:21	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		04/19/21 18:21	120-82-1	
1,1,1-Trichloroethane	218	ug/L	125	37.8	125		04/19/21 18:21	71-55-6	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		04/19/21 18:21	79-00-5	
Trichloroethene	97.1J	ug/L	125	40.0	125		04/19/21 18:21	79-01-6	
1,2,4-Trimethylbenzene	195	ug/L	125	56.1	125		04/19/21 18:21	95-63-6	
1,3,5-Trimethylbenzene	66.8J	ug/L	125	44.7	125		04/19/21 18:21	108-67-8	
Vinyl chloride	131	ug/L	125	21.8	125		04/19/21 18:21	75-01-4	
Xylene (Total)	5810	ug/L	375	131	125		04/19/21 18:21	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		125		04/19/21 18:21	1868-53-7	
Toluene-d8 (S)	95	%	70-130		125		04/19/21 18:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		125		04/19/21 18:21	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40225085

Sample: RW12 **Lab ID: 40225085005** Collected: 04/13/21 06:35 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	8350	ug/L	6250	2160	250		04/19/21 18:45	67-64-1	
Benzene	<73.9	ug/L	250	73.9	250		04/19/21 18:45	71-43-2	
2-Butanone (MEK)	4160J	ug/L	6250	1630	250		04/19/21 18:45	78-93-3	
Carbon tetrachloride	<92.3	ug/L	250	92.3	250		04/19/21 18:45	56-23-5	
Chlorobenzene	<214	ug/L	250	214	250		04/19/21 18:45	108-90-7	
Chloroethane	<345	ug/L	1250	345	250		04/19/21 18:45	75-00-3	
Chloroform	<296	ug/L	1250	296	250		04/19/21 18:45	67-66-3	
Chloromethane	<409	ug/L	1250	409	250		04/19/21 18:45	74-87-3	
1,2-Dichlorobenzene	<81.5	ug/L	250	81.5	250		04/19/21 18:45	95-50-1	
1,3-Dichlorobenzene	<87.8	ug/L	250	87.8	250		04/19/21 18:45	541-73-1	
1,4-Dichlorobenzene	<223	ug/L	250	223	250		04/19/21 18:45	106-46-7	
Dichlorodifluoromethane	<114	ug/L	1250	114	250		04/19/21 18:45	75-71-8	
1,1-Dichloroethane	620	ug/L	250	73.9	250		04/19/21 18:45	75-34-3	
1,2-Dichloroethane	<72.9	ug/L	250	72.9	250		04/19/21 18:45	107-06-2	
1,1-Dichloroethene	154J	ug/L	250	146	250		04/19/21 18:45	75-35-4	
cis-1,2-Dichloroethene	2940	ug/L	250	118	250		04/19/21 18:45	156-59-2	
trans-1,2-Dichloroethene	<132	ug/L	250	132	250		04/19/21 18:45	156-60-5	
1,2-Dichloropropane	<112	ug/L	250	112	250		04/19/21 18:45	78-87-5	
Ethylbenzene	2330	ug/L	250	81.3	250		04/19/21 18:45	100-41-4	
n-Hexane	<366	ug/L	1250	366	250		04/19/21 18:45	110-54-3	
Isopropylbenzene (Cumene)	<250	ug/L	1250	250	250		04/19/21 18:45	98-82-8	
Methylene Chloride	712J	ug/L	1250	79.9	250		04/19/21 18:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	2570J	ug/L	6250	1490	250		04/19/21 18:45	108-10-1	
Methyl-tert-butyl ether	<282	ug/L	1250	282	250		04/19/21 18:45	1634-04-4	
Naphthalene	<282	ug/L	1250	282	250		04/19/21 18:45	91-20-3	
2-Propanol	28400	ug/L	25000	2460	250		04/19/21 18:45	67-63-0	
Styrene	<89.1	ug/L	250	89.1	250		04/19/21 18:45	100-42-5	
1,1,1,2-Tetrachloroethane	<88.8	ug/L	250	88.8	250		04/19/21 18:45	630-20-6	
1,1,2,2-Tetrachloroethane	<94.5	ug/L	250	94.5	250		04/19/21 18:45	79-34-5	
Tetrachloroethene	<102	ug/L	250	102	250		04/19/21 18:45	127-18-4	
Toluene	43700	ug/L	250	72.0	250		04/19/21 18:45	108-88-3	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		04/19/21 18:45	120-82-1	
1,1,1-Trichloroethane	1160	ug/L	250	75.6	250		04/19/21 18:45	71-55-6	
1,1,2-Trichloroethane	<86.1	ug/L	1250	86.1	250		04/19/21 18:45	79-00-5	
Trichloroethene	411	ug/L	250	79.9	250		04/19/21 18:45	79-01-6	
1,2,4-Trimethylbenzene	<112	ug/L	250	112	250		04/19/21 18:45	95-63-6	
1,3,5-Trimethylbenzene	<89.3	ug/L	250	89.3	250		04/19/21 18:45	108-67-8	
Vinyl chloride	246J	ug/L	250	43.6	250		04/19/21 18:45	75-01-4	
Xylene (Total)	9800	ug/L	750	262	250		04/19/21 18:45	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		250		04/19/21 18:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		250		04/19/21 18:45	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		250		04/19/21 18:45	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Project No.: 40225085

Sample: **RW13** Lab ID: **40225085006** Collected: 04/13/21 06:55 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	6910	ug/L	2500	864	100		04/19/21 19:09	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		04/19/21 19:09	71-43-2	
2-Butanone (MEK)	1640J	ug/L	2500	652	100		04/19/21 19:09	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		04/19/21 19:09	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		04/19/21 19:09	108-90-7	
Chloroethane	<138	ug/L	500	138	100		04/19/21 19:09	75-00-3	
Chloroform	<118	ug/L	500	118	100		04/19/21 19:09	67-66-3	
Chloromethane	<164	ug/L	500	164	100		04/19/21 19:09	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		04/19/21 19:09	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		04/19/21 19:09	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		04/19/21 19:09	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		04/19/21 19:09	75-71-8	
1,1-Dichloroethane	46.8J	ug/L	100	29.6	100		04/19/21 19:09	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		04/19/21 19:09	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		04/19/21 19:09	75-35-4	
cis-1,2-Dichloroethene	81.8J	ug/L	100	47.2	100		04/19/21 19:09	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		04/19/21 19:09	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		04/19/21 19:09	78-87-5	
Ethylbenzene	679	ug/L	100	32.5	100		04/19/21 19:09	100-41-4	
n-Hexane	<146	ug/L	500	146	100		04/19/21 19:09	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		04/19/21 19:09	98-82-8	
Methylene Chloride	35.7J	ug/L	500	31.9	100		04/19/21 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	1100J	ug/L	2500	595	100		04/19/21 19:09	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		04/19/21 19:09	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		04/19/21 19:09	91-20-3	
2-Propanol	6250J	ug/L	10000	985	100		04/19/21 19:09	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		04/19/21 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		04/19/21 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		04/19/21 19:09	79-34-5	
Tetrachloroethene	<40.9	ug/L	100	40.9	100		04/19/21 19:09	127-18-4	
Toluene	12100	ug/L	100	28.8	100		04/19/21 19:09	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		04/19/21 19:09	120-82-1	
1,1,1-Trichloroethane	<30.3	ug/L	100	30.3	100		04/19/21 19:09	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		04/19/21 19:09	79-00-5	
Trichloroethene	<32.0	ug/L	100	32.0	100		04/19/21 19:09	79-01-6	
1,2,4-Trimethylbenzene	<44.9	ug/L	100	44.9	100		04/19/21 19:09	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		04/19/21 19:09	108-67-8	
Vinyl chloride	34.4J	ug/L	100	17.4	100		04/19/21 19:09	75-01-4	
Xylene (Total)	3000	ug/L	300	105	100		04/19/21 19:09	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		100		04/19/21 19:09	1868-53-7	
Toluene-d8 (S)	100	%	70-130		100		04/19/21 19:09	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		100		04/19/21 19:09	460-00-4	

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ANALYTICAL RESULTS

Project: MONTHLY VOC

Pace Project No.: 40225085

Sample: TRIP BLANK Lab ID: 40225085007 Collected: 04/13/21 00:00 Received: 04/14/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		04/16/21 19:51	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		04/16/21 19:51	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		04/16/21 19:51	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		04/16/21 19:51	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		04/16/21 19:51	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		04/16/21 19:51	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		04/16/21 19:51	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		04/16/21 19:51	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		04/16/21 19:51	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		04/16/21 19:51	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		04/16/21 19:51	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		04/16/21 19:51	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		04/16/21 19:51	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		04/16/21 19:51	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		04/16/21 19:51	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		04/16/21 19:51	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		04/16/21 19:51	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		04/16/21 19:51	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/16/21 19:51	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		04/16/21 19:51	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		04/16/21 19:51	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		04/16/21 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		04/16/21 19:51	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		04/16/21 19:51	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/16/21 19:51	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		04/16/21 19:51	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		04/16/21 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		04/16/21 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		04/16/21 19:51	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		04/16/21 19:51	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		04/16/21 19:51	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/16/21 19:51	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		04/16/21 19:51	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		04/16/21 19:51	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		04/16/21 19:51	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		04/16/21 19:51	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		04/16/21 19:51	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/16/21 19:51	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		04/16/21 19:51	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		04/16/21 19:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/16/21 19:51	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/16/21 19:51	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40225085

QC Batch: 382514	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40225085001

METHOD BLANK: 2206127 Matrix: Water
Associated Lab Samples: 40225085001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	04/16/21 16:40	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	04/16/21 16:40	
Acetone	ug/L	<8.6	25.0	04/16/21 16:40	
Chloromethane	ug/L	<1.6	5.0	04/16/21 16:40	
Methylene Chloride	ug/L	<0.32	5.0	04/16/21 16:40	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	04/16/21 16:40	
4-Bromofluorobenzene (S)	%	100	70-130	04/16/21 16:40	
Toluene-d8 (S)	%	100	70-130	04/16/21 16:40	

LABORATORY CONTROL SAMPLE: 2206128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	53.0	106	27-148	
Methylene Chloride	ug/L	50	49.6	99	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207487 2207488

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10554723003 Result	Spike Conc.	Spike Conc.	MS Result						
Chloromethane	ug/L	<5.0	50	50	54.4	52.9	109	106	17-149	3	20
Methylene Chloride	ug/L	<5.0	50	50	50.6	48.0	101	96	70-130	5	20
1,2-Dichlorobenzene-d4 (S)	%						100	96	70-130		
4-Bromofluorobenzene (S)	%						98	94	70-130		
Toluene-d8 (S)	%						101	100	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40225085

QC Batch: 382513 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225085002, 40225085003, 40225085004, 40225085005, 40225085006, 40225085007

METHOD BLANK: 2206125 Matrix: Water
Associated Lab Samples: 40225085002, 40225085003, 40225085004, 40225085005, 40225085006, 40225085007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	04/16/21 16:41	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	04/16/21 16:41	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	04/16/21 16:41	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	04/16/21 16:41	
1,1-Dichloroethane	ug/L	<0.30	1.0	04/16/21 16:41	
1,1-Dichloroethene	ug/L	<0.58	1.0	04/16/21 16:41	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/16/21 16:41	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	04/16/21 16:41	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	04/16/21 16:41	
1,2-Dichloroethane	ug/L	<0.29	1.0	04/16/21 16:41	
1,2-Dichloropropane	ug/L	<0.45	1.0	04/16/21 16:41	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	04/16/21 16:41	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	04/16/21 16:41	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	04/16/21 16:41	
2-Butanone (MEK)	ug/L	<6.5	25.0	04/16/21 16:41	
2-Propanol	ug/L	<9.9	100	04/16/21 16:41	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	04/16/21 16:41	
Acetone	ug/L	<8.6	25.0	04/16/21 16:41	
Benzene	ug/L	<0.30	1.0	04/16/21 16:41	
Carbon tetrachloride	ug/L	<0.37	1.0	04/16/21 16:41	
Chlorobenzene	ug/L	<0.86	1.0	04/16/21 16:41	
Chloroethane	ug/L	<1.4	5.0	04/16/21 16:41	
Chloroform	ug/L	<1.2	5.0	04/16/21 16:41	
Chloromethane	ug/L	<1.6	5.0	04/16/21 16:41	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	04/16/21 16:41	
Dichlorodifluoromethane	ug/L	<0.46	5.0	04/16/21 16:41	
Ethylbenzene	ug/L	<0.33	1.0	04/16/21 16:41	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	04/16/21 16:41	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	04/16/21 16:41	
Methylene Chloride	ug/L	<0.32	5.0	04/16/21 16:41	
n-Hexane	ug/L	<1.5	5.0	04/16/21 16:41	
Naphthalene	ug/L	<1.1	5.0	04/16/21 16:41	
Styrene	ug/L	<0.36	1.0	04/16/21 16:41	
Tetrachloroethane	ug/L	<0.41	1.0	04/16/21 16:41	
Toluene	ug/L	<0.29	1.0	04/16/21 16:41	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	04/16/21 16:41	
Trichloroethene	ug/L	<0.32	1.0	04/16/21 16:41	
Vinyl chloride	ug/L	<0.17	1.0	04/16/21 16:41	
Xylene (Total)	ug/L	<1.0	3.0	04/16/21 16:41	
4-Bromofluorobenzene (S)	%	90	70-130	04/16/21 16:41	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MONTHLY VOC
Pace Project No.: 40225085

METHOD BLANK: 2206125 Matrix: Water
Associated Lab Samples: 40225085002, 40225085003, 40225085004, 40225085005, 40225085006, 40225085007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	99	70-130	04/16/21 16:41	
Toluene-d8 (S)	%	95	70-130	04/16/21 16:41	

LABORATORY CONTROL SAMPLE: 2206126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.9	92	66-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	42.7	85	68-132	
1,1-Dichloroethene	ug/L	50	49.4	99	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	36.0	72	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	78-125	
1,3-Dichlorobenzene	ug/L	50	53.7	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.4	105	70-130	
Benzene	ug/L	50	45.2	90	70-132	
Carbon tetrachloride	ug/L	50	49.0	98	70-130	
Chlorobenzene	ug/L	50	57.1	114	70-130	
Chloroethane	ug/L	50	50.1	100	73-137	
Chloroform	ug/L	50	43.7	87	80-122	
Chloromethane	ug/L	50	46.8	94	27-148	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-130	
Dichlorodifluoromethane	ug/L	50	44.3	89	22-151	
Ethylbenzene	ug/L	50	57.1	114	80-123	
Isopropylbenzene (Cumene)	ug/L	50	58.3	117	70-130	
Methyl-tert-butyl ether	ug/L	50	37.3	75	66-130	
Methylene Chloride	ug/L	50	48.2	96	70-130	
Styrene	ug/L	50	60.7	121	70-130	
Tetrachloroethane	ug/L	50	60.3	121	70-130	
Toluene	ug/L	50	56.2	112	80-121	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
Trichloroethene	ug/L	50	58.1	116	70-130	
Vinyl chloride	ug/L	50	50.4	101	63-142	
Xylene (Total)	ug/L	150	175	117	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MONTHLY VOC

Pace Project No.: 40225085

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.

WORKORDER QUALIFIERS

WO: 40225085

[1] Revised Report: The original report did not include QA/QC data for the surrogate 1,2-dichlorobenzene-d4.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MONTHLY VOC

Pace Project No.: 40225085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225085001	RESERVOIR	EPA 8260	382514		
40225085002	PRODUCTION	EPA 8260	382513		
40225085003	RW6	EPA 8260	382513		
40225085004	RW11	EPA 8260	382513		
40225085005	RW12	EPA 8260	382513		
40225085006	RW13	EPA 8260	382513		
40225085007	TRIP BLANK	EPA 8260	382513		

REPORT OF LABORATORY ANALYSIS

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Client Name: WRR Env.

Sample Preservation Receipt Form
Project # 40225085

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

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																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			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	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: WRR ENV.

Project #: _____

WO# : 40225085

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



Tracking #: SP003359 03 1042 162465

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 - 104 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 ICorr: 4

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 4/14/21 Initials: SKW
 Labeled By Initials: MLR

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Proj. info, Pg #</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>002 - ID is Production Well</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>4/14/21</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>In shipment Lab added to COC</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>4/14/21</u>
Pace Trip Blank Lot # (if purchased): <u>459</u>		<u>SKW</u>

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

May 11, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: VOC TESTING
Pace Project No.: 40226330

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VOC TESTING

Pace Project No.: 40226330

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

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SAMPLE SUMMARY

Project: VOC TESTING

Pace Project No.: 40226330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40226330001	RESERVOIR	Water	05/04/21 07:05	05/05/21 09:40
40226330002	PRODUCTION	Water	05/04/21 06:50	05/05/21 09:40
40226330003	RW6	Water	05/04/21 07:10	05/05/21 09:40
40226330004	RW11	Water	05/04/21 07:00	05/05/21 09:40
40226330005	RW12	Water	05/04/21 06:55	05/05/21 09:40
40226330006	RW13	Water	05/04/21 07:15	05/05/21 09:40
40226330007	TRIP BLANK	Water	05/04/21 00:00	05/05/21 09:40

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SAMPLE ANALYTE COUNT

Project: VOC TESTING

Pace Project No.: 40226330

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40226330001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40226330002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40226330003	RW6	EPA 8260	LAP	42	PASI-G
40226330004	RW11	EPA 8260	LAP	42	PASI-G
40226330005	RW12	EPA 8260	LAP	42	PASI-G
40226330006	RW13	EPA 8260	LAP	42	PASI-G
40226330007	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: RESERVOIR **Lab ID: 40226330001** Collected: 05/04/21 07:05 Received: 05/05/21 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									
Acetone	<8.6	ug/L	25.0	8.6	1		05/06/21 18:46	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/06/21 18:46	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/06/21 18:46	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/06/21 18:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		05/06/21 18:46	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		05/06/21 18:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/06/21 18:46	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		05/06/21 18:46	2037-26-5	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: PRODUCTION **Lab ID: 40226330002** Collected: 05/04/21 06:50 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		05/07/21 15:26	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/07/21 15:26	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/07/21 15:26	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/07/21 15:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/07/21 15:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/07/21 15:26	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/07/21 15:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/07/21 15:26	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/07/21 15:26	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/07/21 15:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/07/21 15:26	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/07/21 15:26	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/07/21 15:26	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/07/21 15:26	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/07/21 15:26	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/07/21 15:26	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/07/21 15:26	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/07/21 15:26	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/07/21 15:26	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		05/07/21 15:26	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/07/21 15:26	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/07/21 15:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		05/07/21 15:26	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/07/21 15:26	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/07/21 15:26	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		05/07/21 15:26	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		05/07/21 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/07/21 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/07/21 15:26	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/07/21 15:26	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/07/21 15:26	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/07/21 15:26	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/07/21 15:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/07/21 15:26	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/07/21 15:26	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/07/21 15:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/07/21 15:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/07/21 15:26	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/07/21 15:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	110	%	70-130		1		05/07/21 15:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/07/21 15:26	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/07/21 15:26	460-00-4	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: RW6 **Lab ID: 40226330003** Collected: 05/04/21 07:10 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	3440	ug/L	1250	432	50		05/07/21 09:03	67-64-1	
Benzene	38.2J	ug/L	50.0	14.8	50		05/07/21 09:03	71-43-2	
2-Butanone (MEK)	<326	ug/L	1250	326	50		05/07/21 09:03	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		05/07/21 09:03	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		05/07/21 09:03	108-90-7	
Chloroethane	233J	ug/L	250	69.0	50		05/07/21 09:03	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		05/07/21 09:03	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		05/07/21 09:03	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		05/07/21 09:03	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		05/07/21 09:03	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		05/07/21 09:03	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		05/07/21 09:03	75-71-8	
1,1-Dichloroethane	<14.8	ug/L	50.0	14.8	50		05/07/21 09:03	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		05/07/21 09:03	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		05/07/21 09:03	75-35-4	
cis-1,2-Dichloroethene	<23.6	ug/L	50.0	23.6	50		05/07/21 09:03	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		05/07/21 09:03	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		05/07/21 09:03	78-87-5	
Ethylbenzene	300	ug/L	50.0	16.3	50		05/07/21 09:03	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		05/07/21 09:03	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		05/07/21 09:03	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		05/07/21 09:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	980J	ug/L	1250	298	50		05/07/21 09:03	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		05/07/21 09:03	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		05/07/21 09:03	91-20-3	
2-Propanol	4200J	ug/L	5000	493	50		05/07/21 09:03	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		05/07/21 09:03	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		05/07/21 09:03	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		05/07/21 09:03	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		05/07/21 09:03	127-18-4	
Toluene	12000	ug/L	50.0	14.4	50		05/07/21 09:03	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		05/07/21 09:03	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		05/07/21 09:03	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		05/07/21 09:03	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		05/07/21 09:03	79-01-6	
1,2,4-Trimethylbenzene	36.5J	ug/L	50.0	22.4	50		05/07/21 09:03	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		05/07/21 09:03	108-67-8	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		05/07/21 09:03	75-01-4	
Xylene (Total)	3480	ug/L	150	52.4	50		05/07/21 09:03	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		50		05/07/21 09:03	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		05/07/21 09:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		50		05/07/21 09:03	460-00-4	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: RW11 **Lab ID: 40226330004** Collected: 05/04/21 07:00 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<1080	ug/L	3120	1080	125		05/07/21 09:26	67-64-1	
Benzene	<36.9	ug/L	125	36.9	125		05/07/21 09:26	71-43-2	
2-Butanone (MEK)	<815	ug/L	3120	815	125		05/07/21 09:26	78-93-3	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		05/07/21 09:26	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		05/07/21 09:26	108-90-7	
Chloroethane	<172	ug/L	625	172	125		05/07/21 09:26	75-00-3	
Chloroform	<148	ug/L	625	148	125		05/07/21 09:26	67-66-3	
Chloromethane	<204	ug/L	625	204	125		05/07/21 09:26	74-87-3	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		05/07/21 09:26	95-50-1	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		05/07/21 09:26	541-73-1	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		05/07/21 09:26	106-46-7	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		05/07/21 09:26	75-71-8	
1,1-Dichloroethane	180	ug/L	125	37.0	125		05/07/21 09:26	75-34-3	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		05/07/21 09:26	107-06-2	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		05/07/21 09:26	75-35-4	
cis-1,2-Dichloroethene	1010	ug/L	125	58.9	125		05/07/21 09:26	156-59-2	
trans-1,2-Dichloroethene	<66.0	ug/L	125	66.0	125		05/07/21 09:26	156-60-5	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		05/07/21 09:26	78-87-5	
Ethylbenzene	1400	ug/L	125	40.6	125		05/07/21 09:26	100-41-4	
n-Hexane	<183	ug/L	625	183	125		05/07/21 09:26	110-54-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		05/07/21 09:26	98-82-8	
Methylene Chloride	<39.9	ug/L	625	39.9	125		05/07/21 09:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<744	ug/L	3120	744	125		05/07/21 09:26	108-10-1	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		05/07/21 09:26	1634-04-4	
Naphthalene	<141	ug/L	625	141	125		05/07/21 09:26	91-20-3	
2-Propanol	<1230	ug/L	12500	1230	125		05/07/21 09:26	67-63-0	
Styrene	<44.5	ug/L	125	44.5	125		05/07/21 09:26	100-42-5	
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		05/07/21 09:26	630-20-6	
1,1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		05/07/21 09:26	79-34-5	
Tetrachloroethene	<51.1	ug/L	125	51.1	125		05/07/21 09:26	127-18-4	
Toluene	7060	ug/L	125	36.0	125		05/07/21 09:26	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		05/07/21 09:26	120-82-1	
1,1,1-Trichloroethane	307	ug/L	125	37.8	125		05/07/21 09:26	71-55-6	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		05/07/21 09:26	79-00-5	
Trichloroethene	60.2J	ug/L	125	40.0	125		05/07/21 09:26	79-01-6	
1,2,4-Trimethylbenzene	247	ug/L	125	56.1	125		05/07/21 09:26	95-63-6	
1,3,5-Trimethylbenzene	70.4J	ug/L	125	44.7	125		05/07/21 09:26	108-67-8	
Vinyl chloride	157	ug/L	125	21.8	125		05/07/21 09:26	75-01-4	
Xylene (Total)	6160	ug/L	375	131	125		05/07/21 09:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		125		05/07/21 09:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130		125		05/07/21 09:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		125		05/07/21 09:26	460-00-4	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: RW12 **Lab ID: 40226330005** Collected: 05/04/21 06:55 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	7930	ug/L	1250	432	50		05/07/21 09:48	67-64-1	
Benzene	50.9	ug/L	50.0	14.8	50		05/07/21 09:48	71-43-2	
2-Butanone (MEK)	5230	ug/L	1250	326	50		05/07/21 09:48	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		05/07/21 09:48	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		05/07/21 09:48	108-90-7	
Chloroethane	139J	ug/L	250	69.0	50		05/07/21 09:48	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		05/07/21 09:48	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		05/07/21 09:48	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		05/07/21 09:48	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		05/07/21 09:48	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		05/07/21 09:48	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		05/07/21 09:48	75-71-8	
1,1-Dichloroethane	626	ug/L	50.0	14.8	50		05/07/21 09:48	75-34-3	
1,2-Dichloroethane	77.0	ug/L	50.0	14.6	50		05/07/21 09:48	107-06-2	
1,1-Dichloroethene	127	ug/L	50.0	29.1	50		05/07/21 09:48	75-35-4	
cis-1,2-Dichloroethene	3130	ug/L	50.0	23.6	50		05/07/21 09:48	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		05/07/21 09:48	156-60-5	
1,2-Dichloropropane	26.6J	ug/L	50.0	22.4	50		05/07/21 09:48	78-87-5	
Ethylbenzene	2550	ug/L	50.0	16.3	50		05/07/21 09:48	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		05/07/21 09:48	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		05/07/21 09:48	98-82-8	
Methylene Chloride	723	ug/L	250	16.0	50		05/07/21 09:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	3320	ug/L	1250	298	50		05/07/21 09:48	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		05/07/21 09:48	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		05/07/21 09:48	91-20-3	
2-Propanol	40100	ug/L	5000	493	50		05/07/21 09:48	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		05/07/21 09:48	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		05/07/21 09:48	630-20-6	
1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		05/07/21 09:48	79-34-5	
Tetrachloroethene	57.3	ug/L	50.0	20.4	50		05/07/21 09:48	127-18-4	
Toluene	58200	ug/L	500	144	500		05/07/21 16:33	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		05/07/21 09:48	120-82-1	
1,1,1-Trichloroethane	1500	ug/L	50.0	15.1	50		05/07/21 09:48	71-55-6	
1,1,2-Trichloroethane	51.4J	ug/L	250	17.2	50		05/07/21 09:48	79-00-5	
Trichloroethene	404	ug/L	50.0	16.0	50		05/07/21 09:48	79-01-6	
1,2,4-Trimethylbenzene	128	ug/L	50.0	22.4	50		05/07/21 09:48	95-63-6	
1,3,5-Trimethylbenzene	38.8J	ug/L	50.0	17.9	50		05/07/21 09:48	108-67-8	
Vinyl chloride	276	ug/L	50.0	8.7	50		05/07/21 09:48	75-01-4	
Xylene (Total)	10000	ug/L	150	52.4	50		05/07/21 09:48	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	110	%	70-130		50		05/07/21 09:48	1868-53-7	
Toluene-d8 (S)	102	%	70-130		50		05/07/21 09:48	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		50		05/07/21 09:48	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40226330

Sample: RW13 **Lab ID: 40226330006** Collected: 05/04/21 07:15 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	5490	ug/L	5000	1730	200		05/07/21 16:56	67-64-1	
Benzene	22.6	ug/L	20.0	5.9	20		05/07/21 10:11	71-43-2	
2-Butanone (MEK)	2940	ug/L	500	130	20		05/07/21 10:11	78-93-3	
Carbon tetrachloride	<7.4	ug/L	20.0	7.4	20		05/07/21 10:11	56-23-5	
Chlorobenzene	<17.1	ug/L	20.0	17.1	20		05/07/21 10:11	108-90-7	
Chloroethane	168	ug/L	100	27.6	20		05/07/21 10:11	75-00-3	
Chloroform	<23.7	ug/L	100	23.7	20		05/07/21 10:11	67-66-3	
Chloromethane	<32.7	ug/L	100	32.7	20		05/07/21 10:11	74-87-3	
1,2-Dichlorobenzene	<6.5	ug/L	20.0	6.5	20		05/07/21 10:11	95-50-1	
1,3-Dichlorobenzene	<7.0	ug/L	20.0	7.0	20		05/07/21 10:11	541-73-1	
1,4-Dichlorobenzene	<17.8	ug/L	20.0	17.8	20		05/07/21 10:11	106-46-7	
Dichlorodifluoromethane	<9.1	ug/L	100	9.1	20		05/07/21 10:11	75-71-8	
1,1-Dichloroethane	48.9	ug/L	20.0	5.9	20		05/07/21 10:11	75-34-3	
1,2-Dichloroethane	26.1	ug/L	20.0	5.8	20		05/07/21 10:11	107-06-2	
1,1-Dichloroethene	<11.6	ug/L	20.0	11.6	20		05/07/21 10:11	75-35-4	
cis-1,2-Dichloroethene	74.6	ug/L	20.0	9.4	20		05/07/21 10:11	156-59-2	
trans-1,2-Dichloroethene	<10.6	ug/L	20.0	10.6	20		05/07/21 10:11	156-60-5	
1,2-Dichloropropane	<9.0	ug/L	20.0	9.0	20		05/07/21 10:11	78-87-5	
Ethylbenzene	898	ug/L	20.0	6.5	20		05/07/21 10:11	100-41-4	
n-Hexane	<29.2	ug/L	100	29.2	20		05/07/21 10:11	110-54-3	
Isopropylbenzene (Cumene)	<20.0	ug/L	100	20.0	20		05/07/21 10:11	98-82-8	
Methylene Chloride	27.8J	ug/L	100	6.4	20		05/07/21 10:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	1740	ug/L	500	119	20		05/07/21 10:11	108-10-1	
Methyl-tert-butyl ether	<22.6	ug/L	100	22.6	20		05/07/21 10:11	1634-04-4	
Naphthalene	<22.6	ug/L	100	22.6	20		05/07/21 10:11	91-20-3	
2-Propanol	10100	ug/L	2000	197	20		05/07/21 10:11	67-63-0	
Styrene	<7.1	ug/L	20.0	7.1	20		05/07/21 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	<7.1	ug/L	20.0	7.1	20		05/07/21 10:11	630-20-6	
1,1,2,2-Tetrachloroethane	<7.6	ug/L	20.0	7.6	20		05/07/21 10:11	79-34-5	
Tetrachloroethene	9.6J	ug/L	20.0	8.2	20		05/07/21 10:11	127-18-4	
Toluene	8580	ug/L	200	57.6	200		05/07/21 16:56	108-88-3	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		05/07/21 10:11	120-82-1	
1,1,1-Trichloroethane	<6.1	ug/L	20.0	6.1	20		05/07/21 10:11	71-55-6	
1,1,2-Trichloroethane	<6.9	ug/L	100	6.9	20		05/07/21 10:11	79-00-5	
Trichloroethene	8.8J	ug/L	20.0	6.4	20		05/07/21 10:11	79-01-6	
1,2,4-Trimethylbenzene	57.5	ug/L	20.0	9.0	20		05/07/21 10:11	95-63-6	
1,3,5-Trimethylbenzene	14.6J	ug/L	20.0	7.1	20		05/07/21 10:11	108-67-8	
Vinyl chloride	31.3	ug/L	20.0	3.5	20		05/07/21 10:11	75-01-4	
Xylene (Total)	3500	ug/L	60.0	21.0	20		05/07/21 10:11	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		20		05/07/21 10:11	1868-53-7	
Toluene-d8 (S)	102	%	70-130		20		05/07/21 10:11	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		20		05/07/21 10:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40226330

Sample: TRIP BLANK **Lab ID: 40226330007** Collected: 05/04/21 00:00 Received: 05/05/21 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		05/07/21 08:18	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		05/07/21 08:18	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		05/07/21 08:18	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/07/21 08:18	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/07/21 08:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/07/21 08:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/07/21 08:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/07/21 08:18	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/07/21 08:18	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/07/21 08:18	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/07/21 08:18	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/07/21 08:18	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/07/21 08:18	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/07/21 08:18	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/07/21 08:18	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/07/21 08:18	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/07/21 08:18	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/07/21 08:18	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/07/21 08:18	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		05/07/21 08:18	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/07/21 08:18	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/07/21 08:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		05/07/21 08:18	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/07/21 08:18	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/07/21 08:18	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		05/07/21 08:18	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		05/07/21 08:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/07/21 08:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/07/21 08:18	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/07/21 08:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/07/21 08:18	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/07/21 08:18	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/07/21 08:18	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/07/21 08:18	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/07/21 08:18	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/07/21 08:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/07/21 08:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/07/21 08:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/07/21 08:18	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	112	%	70-130		1		05/07/21 08:18	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/07/21 08:18	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/07/21 08:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40226330

QC Batch: 384432 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40226330001

METHOD BLANK: 2217582 Matrix: Water
Associated Lab Samples: 40226330001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	05/06/21 12:16	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	05/06/21 12:16	
Acetone	ug/L	<8.6	25.0	05/06/21 12:16	
Chloromethane	ug/L	<1.6	5.0	05/06/21 12:16	
Methylene Chloride	ug/L	<0.32	5.0	05/06/21 12:16	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	05/06/21 12:16	
4-Bromofluorobenzene (S)	%	117	70-130	05/06/21 12:16	
Toluene-d8 (S)	%	102	70-130	05/06/21 12:16	

LABORATORY CONTROL SAMPLE: 2217583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	57.7	115	27-148	
Methylene Chloride	ug/L	50	55.2	110	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			117	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2218336 2218337

Parameter	Units	40226317003		2218336		2218337		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
Chloromethane	ug/L	<1.6	50	50	58.3	59.9	117	120	117	120	17-149	3	20	
Methylene Chloride	ug/L	<0.32	50	50	56.1	57.2	112	114	112	114	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	101	98	70-130			
4-Bromofluorobenzene (S)	%						117	115	117	115	70-130			
Toluene-d8 (S)	%						102	102	102	102	70-130			

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40226330

QC Batch: 384433 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40226330002, 40226330003, 40226330004, 40226330005, 40226330006, 40226330007

METHOD BLANK: 2217584 Matrix: Water
Associated Lab Samples: 40226330002, 40226330003, 40226330004, 40226330005, 40226330006, 40226330007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	05/07/21 07:11	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/07/21 07:11	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	05/07/21 07:11	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	05/07/21 07:11	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/07/21 07:11	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/07/21 07:11	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/07/21 07:11	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/07/21 07:11	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/07/21 07:11	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/07/21 07:11	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/07/21 07:11	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/07/21 07:11	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/07/21 07:11	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/07/21 07:11	
2-Butanone (MEK)	ug/L	<6.5	25.0	05/07/21 07:11	
2-Propanol	ug/L	<9.9	100	05/07/21 07:11	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	05/07/21 07:11	
Acetone	ug/L	<8.6	25.0	05/07/21 07:11	
Benzene	ug/L	<0.30	1.0	05/07/21 07:11	
Carbon tetrachloride	ug/L	<0.37	1.0	05/07/21 07:11	
Chlorobenzene	ug/L	<0.86	1.0	05/07/21 07:11	
Chloroethane	ug/L	<1.4	5.0	05/07/21 07:11	
Chloroform	ug/L	<1.2	5.0	05/07/21 07:11	
Chloromethane	ug/L	<1.6	5.0	05/07/21 07:11	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/07/21 07:11	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/07/21 07:11	
Ethylbenzene	ug/L	<0.33	1.0	05/07/21 07:11	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	05/07/21 07:11	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/07/21 07:11	
Methylene Chloride	ug/L	<0.32	5.0	05/07/21 07:11	
n-Hexane	ug/L	<1.5	5.0	05/07/21 07:11	
Naphthalene	ug/L	<1.1	5.0	05/07/21 07:11	
Styrene	ug/L	<0.36	1.0	05/07/21 07:11	
Tetrachloroethane	ug/L	<0.41	1.0	05/07/21 07:11	
Toluene	ug/L	<0.29	1.0	05/07/21 07:11	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/07/21 07:11	
Trichloroethene	ug/L	<0.32	1.0	05/07/21 07:11	
Vinyl chloride	ug/L	<0.17	1.0	05/07/21 07:11	
Xylene (Total)	ug/L	<1.0	3.0	05/07/21 07:11	
4-Bromofluorobenzene (S)	%	95	70-130	05/07/21 07:11	

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40226330

METHOD BLANK: 2217584 Matrix: Water
Associated Lab Samples: 40226330002, 40226330003, 40226330004, 40226330005, 40226330006, 40226330007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	108	70-130	05/07/21 07:11	
Toluene-d8 (S)	%	96	70-130	05/07/21 07:11	

LABORATORY CONTROL SAMPLE: 2217585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.2	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	66-130	
1,1,2-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1-Dichloroethane	ug/L	50	55.5	111	68-132	
1,1-Dichloroethene	ug/L	50	56.7	113	85-126	
1,2,4-Trichlorobenzene	ug/L	50	55.0	110	70-130	
1,2-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,2-Dichloroethane	ug/L	50	55.3	111	70-130	
1,2-Dichloropropane	ug/L	50	53.5	107	78-125	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	53.0	106	70-132	
Carbon tetrachloride	ug/L	50	58.6	117	70-130	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	59.1	118	73-137	
Chloroform	ug/L	50	55.0	110	80-122	
Chloromethane	ug/L	50	53.5	107	27-148	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/L	50	57.9	116	22-151	
Ethylbenzene	ug/L	50	54.6	109	80-123	
Isopropylbenzene (Cumene)	ug/L	50	56.8	114	70-130	
Methyl-tert-butyl ether	ug/L	50	52.1	104	66-130	
Methylene Chloride	ug/L	50	51.8	104	70-130	
Styrene	ug/L	50	54.1	108	70-130	
Tetrachloroethane	ug/L	50	52.8	106	70-130	
Toluene	ug/L	50	51.9	104	80-121	
trans-1,2-Dichloroethene	ug/L	50	55.5	111	70-130	
Trichloroethene	ug/L	50	56.5	113	70-130	
Vinyl chloride	ug/L	50	59.9	120	63-142	
Xylene (Total)	ug/L	150	162	108	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40226330

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2219388		2219389		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40226275020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	61.4	58.4	123	117	70-130	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	52.5	48.8	105	98	66-130	7	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	52.5	49.4	105	99	70-130	6	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	49.8	46.9	100	94	68-132	6	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	59.6	56.9	119	114	76-132	5	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	54.2	52.5	108	105	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.4	49.7	105	99	70-130	5	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	60.5	56.8	121	114	70-130	6	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	55.7	54.0	111	108	77-125	3	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.7	50.0	105	100	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	52.3	50.9	105	102	70-130	3	20		
Benzene	ug/L	<0.30	50	50	56.6	53.9	113	107	70-132	5	20		
Carbon tetrachloride	ug/L	<0.37	50	50	61.4	58.3	123	117	70-132	5	20		
Chlorobenzene	ug/L	<0.86	50	50	53.9	51.2	108	102	70-130	5	20		
Chloroethane	ug/L	<1.4	50	50	63.6	61.1	127	122	70-137	4	20		
Chloroform	ug/L	<1.2	50	50	58.6	55.1	117	110	80-122	6	20		
Chloromethane	ug/L	<1.6	50	50	59.1	58.0	118	116	17-149	2	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	53.3	50.5	107	101	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	62.9	59.2	126	118	22-158	6	20		
Ethylbenzene	ug/L	<0.33	50	50	56.5	53.6	113	107	80-123	5	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	58.4	55.1	117	110	70-130	6	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	55.0	50.8	110	102	66-130	8	20		
Methylene Chloride	ug/L	<0.32	50	50	56.0	53.8	112	108	70-130	4	20		
Styrene	ug/L	<0.36	50	50	54.7	51.6	109	103	70-130	6	20		
Tetrachloroethane	ug/L	<0.41	50	50	53.7	51.7	107	103	70-130	4	20		
Toluene	ug/L	0.70J	50	50	55.0	52.4	109	103	80-121	5	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	58.4	56.0	117	112	70-134	4	20		
Trichloroethene	ug/L	<0.32	50	50	57.6	55.3	115	111	70-130	4	20		
Vinyl chloride	ug/L	<0.17	50	50	64.4	62.1	129	124	61-143	4	20		
Xylene (Total)	ug/L	<1.0	150	150	168	159	112	106	70-130	5	20		
4-Bromofluorobenzene (S)	%						102	101	70-130				
Dibromofluoromethane (S)	%						108	106	70-130				
Toluene-d8 (S)	%						98	98	70-130				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: VOC TESTING

Pace Project No.: 40226330

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VOC TESTING

Pace Project No.: 40226330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40226330001	RESERVOIR	EPA 8260	384432		
40226330002	PRODUCTION	EPA 8260	384433		
40226330003	RW6	EPA 8260	384433		
40226330004	RW11	EPA 8260	384433		
40226330005	RW12	EPA 8260	384433		
40226330006	RW13	EPA 8260	384433		
40226330007	TRIP BLANK	EPA 8260	384433		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: LRR Environmental Services
 Branch/Location: 5200 Ryder Rd
 Project Contact: Eric Gunderson
 Phone: 715-834-9624
 Project Number:
 Project Name:
 Project State: WI
 Sampled By (Print): X Jeremy O'Hara
 Sampled By (Sign): [Signature]
 PO #:



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

40226330

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

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																	
N	B	B260 Short																	
		B260 Full																	

Quote #:
 Mail To Contact: Eric Gunderson
 Mail To Company: LRR Environmental Services
 Mail To Address: 5200 Ryder Rd Eau Claire, WI
 Invoice To Contact: Heather Keneally
 Invoice To Company: LRR
 Invoice To Address: Same as above
 Invoice To Phone:

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	Reservoir	5-4-21	9:05	
002	Production	5-4-21	6:50	
003	BLW	5-4-21	7:10	
004	BL11	5-4-21	7:00	
005	BL12	5-4-21	8:55	
006	BL13	5-4-21	7:15	
007	Trip blank			

CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Lab added 1/8 SIS/21

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <u>[Signature]</u> Date/Time: <u>5-4-21 7:30 AM</u>	Received By: Date/Time:	PACE Project No. <u>40226330</u> Receipt Temp = <u>2</u> °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: <u>Speedee</u> Date/Time: <u>5/5/21 0940</u>	Received By: <u>Penara Space</u> Date/Time: <u>5/5/21 0940</u>	
Email #1: <u>[Email]</u>	Relinquished By:	Received By:	
Email #2:	Relinquished By:	Received By:	
Telephone:	Relinquished By:	Received By:	
Fax:	Relinquished By:	Received By:	

 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 #: _____

Client Name: DRR Environmental

WO# : 40226330

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



Tracking #: SP003359 03 12521 98312

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 - 9 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 2

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents: Date: <u>5/5/21</u> /Initials: <u>LS</u> Labeled By Initials: <u>LS</u>

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>proj # + name, po#, pg #, inv. phone</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>KS 5/5/21</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Lab added trip blank to COC</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>KS 5/5/21</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>459</u>		

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

June 17, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: VOC
Pace Project No.: 40228183

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VOC
Pace Project No.: 40228183

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

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SAMPLE SUMMARY

Project: VOC
Pace Project No.: 40228183

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40228183001	RESERVOIR	Water	06/08/21 06:45	06/09/21 09:05
40228183002	PRODUCTION	Water	06/08/21 06:35	06/09/21 09:05
40228183003	RW6	Water	06/08/21 06:50	06/09/21 09:05
40228183004	RW10	Water	06/08/21 07:05	06/09/21 09:05
40228183005	RW11	Water	06/08/21 06:40	06/09/21 09:05
40228183006	RW12	Water	06/08/21 07:00	06/09/21 09:05
40228183007	RW13	Water	06/08/21 06:55	06/09/21 09:05
40228183008	TRIP BLANK	Water	06/08/21 00:00	06/09/21 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: VOC
Pace Project No.: 40228183

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40228183001	RESERVOIR	EPA 8260	SMT	8	PASI-G
40228183002	PRODUCTION	EPA 8260	SMT	42	PASI-G
40228183003	RW6	EPA 8260	SMT	42	PASI-G
40228183004	RW10	EPA 8260	SMT	42	PASI-G
40228183005	RW11	EPA 8260	SMT	42	PASI-G
40228183006	RW12	EPA 8260	SMT	42	PASI-G
40228183007	RW13	EPA 8260	SMT	42	PASI-G
40228183008	TRIP BLANK	EPA 8260	SMT	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RESERVOIR **Lab ID: 40228183001** Collected: 06/08/21 06:45 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		06/11/21 18:42	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		06/11/21 18:42	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/11/21 18:42	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/11/21 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		06/11/21 18:42	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/11/21 18:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/11/21 18:42	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/11/21 18:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: PRODUCTION **Lab ID: 40228183002** Collected: 06/08/21 06:35 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		06/11/21 16:33	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		06/11/21 16:33	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		06/11/21 16:33	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/11/21 16:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/11/21 16:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/11/21 16:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/11/21 16:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/11/21 16:33	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/11/21 16:33	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/11/21 16:33	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/11/21 16:33	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/11/21 16:33	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/11/21 16:33	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/11/21 16:33	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/11/21 16:33	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/11/21 16:33	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/11/21 16:33	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/11/21 16:33	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/11/21 16:33	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		06/11/21 16:33	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/11/21 16:33	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/11/21 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		06/11/21 16:33	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/11/21 16:33	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/11/21 16:33	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		06/11/21 16:33	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		06/11/21 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/11/21 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/11/21 16:33	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/11/21 16:33	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/11/21 16:33	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/11/21 16:33	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/11/21 16:33	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/11/21 16:33	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/11/21 16:33	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/11/21 16:33	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/11/21 16:33	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/11/21 16:33	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/11/21 16:33	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		06/11/21 16:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/11/21 16:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/11/21 16:33	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RW6 **Lab ID: 40228183003** Collected: 06/08/21 06:50 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	1070J	ug/L	1250	432	50		06/11/21 17:48	67-64-1	
Benzene	33.1J	ug/L	50.0	14.8	50		06/11/21 17:48	71-43-2	
2-Butanone (MEK)	<326	ug/L	1250	326	50		06/11/21 17:48	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		06/11/21 17:48	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		06/11/21 17:48	108-90-7	
Chloroethane	148J	ug/L	250	69.0	50		06/11/21 17:48	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		06/11/21 17:48	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		06/11/21 17:48	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		06/11/21 17:48	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		06/11/21 17:48	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		06/11/21 17:48	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		06/11/21 17:48	75-71-8	
1,1-Dichloroethane	<14.8	ug/L	50.0	14.8	50		06/11/21 17:48	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		06/11/21 17:48	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		06/11/21 17:48	75-35-4	
cis-1,2-Dichloroethene	<23.6	ug/L	50.0	23.6	50		06/11/21 17:48	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		06/11/21 17:48	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		06/11/21 17:48	78-87-5	
Ethylbenzene	433	ug/L	50.0	16.3	50		06/11/21 17:48	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		06/11/21 17:48	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		06/11/21 17:48	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		06/11/21 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	525J	ug/L	1250	298	50		06/11/21 17:48	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		06/11/21 17:48	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		06/11/21 17:48	91-20-3	
2-Propanol	2310J	ug/L	5000	493	50		06/11/21 17:48	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		06/11/21 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		06/11/21 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		06/11/21 17:48	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		06/11/21 17:48	127-18-4	
Toluene	11400	ug/L	50.0	14.4	50		06/11/21 17:48	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		06/11/21 17:48	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		06/11/21 17:48	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		06/11/21 17:48	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		06/11/21 17:48	79-01-6	
1,2,4-Trimethylbenzene	32.4J	ug/L	50.0	22.4	50		06/11/21 17:48	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		06/11/21 17:48	108-67-8	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		06/11/21 17:48	75-01-4	
Xylene (Total)	3130	ug/L	150	52.4	50		06/11/21 17:48	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		50		06/11/21 17:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		50		06/11/21 17:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		50		06/11/21 17:48	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RW10 **Lab ID: 40228183004** Collected: 06/08/21 07:05 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	10300	ug/L	5000	1730	200		06/11/21 18:07	67-64-1	
Benzene	<59.1	ug/L	200	59.1	200		06/11/21 18:07	71-43-2	
2-Butanone (MEK)	24300	ug/L	5000	1300	200		06/11/21 18:07	78-93-3	
Carbon tetrachloride	<73.9	ug/L	200	73.9	200		06/11/21 18:07	56-23-5	
Chlorobenzene	<171	ug/L	200	171	200		06/11/21 18:07	108-90-7	
Chloroethane	<276	ug/L	1000	276	200		06/11/21 18:07	75-00-3	
Chloroform	<237	ug/L	1000	237	200		06/11/21 18:07	67-66-3	
Chloromethane	<327	ug/L	1000	327	200		06/11/21 18:07	74-87-3	
1,2-Dichlorobenzene	<65.2	ug/L	200	65.2	200		06/11/21 18:07	95-50-1	
1,3-Dichlorobenzene	<70.2	ug/L	200	70.2	200		06/11/21 18:07	541-73-1	
1,4-Dichlorobenzene	<178	ug/L	200	178	200		06/11/21 18:07	106-46-7	
Dichlorodifluoromethane	<91.1	ug/L	1000	91.1	200		06/11/21 18:07	75-71-8	
1,1-Dichloroethane	<59.1	ug/L	200	59.1	200		06/11/21 18:07	75-34-3	
1,2-Dichloroethane	<58.3	ug/L	200	58.3	200		06/11/21 18:07	107-06-2	
1,1-Dichloroethene	<116	ug/L	200	116	200		06/11/21 18:07	75-35-4	
cis-1,2-Dichloroethene	218	ug/L	200	94.3	200		06/11/21 18:07	156-59-2	
trans-1,2-Dichloroethene	<106	ug/L	200	106	200		06/11/21 18:07	156-60-5	
1,2-Dichloropropane	<89.6	ug/L	200	89.6	200		06/11/21 18:07	78-87-5	
Ethylbenzene	960	ug/L	200	65.0	200		06/11/21 18:07	100-41-4	
n-Hexane	<292	ug/L	1000	292	200		06/11/21 18:07	110-54-3	
Isopropylbenzene (Cumene)	<200	ug/L	1000	200	200		06/11/21 18:07	98-82-8	
Methylene Chloride	114J	ug/L	1000	63.9	200		06/11/21 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1190	ug/L	5000	1190	200		06/11/21 18:07	108-10-1	
Methyl-tert-butyl ether	<226	ug/L	1000	226	200		06/11/21 18:07	1634-04-4	
Naphthalene	<226	ug/L	1000	226	200		06/11/21 18:07	91-20-3	
2-Propanol	6950J	ug/L	20000	1970	200		06/11/21 18:07	67-63-0	
Styrene	<71.3	ug/L	200	71.3	200		06/11/21 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	<71.1	ug/L	200	71.1	200		06/11/21 18:07	630-20-6	
1,1,1,2,2-Tetrachloroethane	<75.6	ug/L	200	75.6	200		06/11/21 18:07	79-34-5	
Tetrachloroethene	<81.7	ug/L	200	81.7	200		06/11/21 18:07	127-18-4	
Toluene	11100	ug/L	200	57.6	200		06/11/21 18:07	108-88-3	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		06/11/21 18:07	120-82-1	
1,1,1-Trichloroethane	511	ug/L	200	60.5	200		06/11/21 18:07	71-55-6	
1,1,2-Trichloroethane	<68.9	ug/L	1000	68.9	200		06/11/21 18:07	79-00-5	
Trichloroethene	447	ug/L	200	63.9	200		06/11/21 18:07	79-01-6	
1,2,4-Trimethylbenzene	<89.7	ug/L	200	89.7	200		06/11/21 18:07	95-63-6	
1,3,5-Trimethylbenzene	<71.5	ug/L	200	71.5	200		06/11/21 18:07	108-67-8	
Vinyl chloride	<34.9	ug/L	200	34.9	200		06/11/21 18:07	75-01-4	
Xylene (Total)	4580	ug/L	600	210	200		06/11/21 18:07	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	70-130		200		06/11/21 18:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		200		06/11/21 18:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		200		06/11/21 18:07	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RW11 **Lab ID: 40228183005** Collected: 06/08/21 06:40 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<1080	ug/L	3120	1080	125		06/11/21 18:25	67-64-1	
Benzene	<36.9	ug/L	125	36.9	125		06/11/21 18:25	71-43-2	
2-Butanone (MEK)	<815	ug/L	3120	815	125		06/11/21 18:25	78-93-3	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		06/11/21 18:25	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		06/11/21 18:25	108-90-7	
Chloroethane	<172	ug/L	625	172	125		06/11/21 18:25	75-00-3	
Chloroform	<148	ug/L	625	148	125		06/11/21 18:25	67-66-3	
Chloromethane	<204	ug/L	625	204	125		06/11/21 18:25	74-87-3	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		06/11/21 18:25	95-50-1	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		06/11/21 18:25	541-73-1	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		06/11/21 18:25	106-46-7	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		06/11/21 18:25	75-71-8	
1,1-Dichloroethane	184	ug/L	125	37.0	125		06/11/21 18:25	75-34-3	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		06/11/21 18:25	107-06-2	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		06/11/21 18:25	75-35-4	
cis-1,2-Dichloroethene	1000	ug/L	125	58.9	125		06/11/21 18:25	156-59-2	
trans-1,2-Dichloroethene	<66.0	ug/L	125	66.0	125		06/11/21 18:25	156-60-5	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		06/11/21 18:25	78-87-5	
Ethylbenzene	1310	ug/L	125	40.6	125		06/11/21 18:25	100-41-4	
n-Hexane	<183	ug/L	625	183	125		06/11/21 18:25	110-54-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		06/11/21 18:25	98-82-8	
Methylene Chloride	<39.9	ug/L	625	39.9	125		06/11/21 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<744	ug/L	3120	744	125		06/11/21 18:25	108-10-1	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		06/11/21 18:25	1634-04-4	
Naphthalene	<141	ug/L	625	141	125		06/11/21 18:25	91-20-3	
2-Propanol	<1230	ug/L	12500	1230	125		06/11/21 18:25	67-63-0	
Styrene	<44.5	ug/L	125	44.5	125		06/11/21 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		06/11/21 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		06/11/21 18:25	79-34-5	
Tetrachloroethene	<51.1	ug/L	125	51.1	125		06/11/21 18:25	127-18-4	
Toluene	5280	ug/L	125	36.0	125		06/11/21 18:25	108-88-3	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		06/11/21 18:25	120-82-1	
1,1,1-Trichloroethane	205	ug/L	125	37.8	125		06/11/21 18:25	71-55-6	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		06/11/21 18:25	79-00-5	
Trichloroethene	<40.0	ug/L	125	40.0	125		06/11/21 18:25	79-01-6	
1,2,4-Trimethylbenzene	251	ug/L	125	56.1	125		06/11/21 18:25	95-63-6	
1,3,5-Trimethylbenzene	69.7J	ug/L	125	44.7	125		06/11/21 18:25	108-67-8	
Vinyl chloride	107J	ug/L	125	21.8	125		06/11/21 18:25	75-01-4	
Xylene (Total)	5580	ug/L	375	131	125		06/11/21 18:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	70-130		125		06/11/21 18:25	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		125		06/11/21 18:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		125		06/11/21 18:25	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RW12 **Lab ID: 40228183006** Collected: 06/08/21 07:00 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<4320	ug/L	12500	4320	500		06/11/21 18:44	67-64-1	
Benzene	<148	ug/L	500	148	500		06/11/21 18:44	71-43-2	
2-Butanone (MEK)	<3260	ug/L	12500	3260	500		06/11/21 18:44	78-93-3	
Carbon tetrachloride	<185	ug/L	500	185	500		06/11/21 18:44	56-23-5	
Chlorobenzene	<428	ug/L	500	428	500		06/11/21 18:44	108-90-7	
Chloroethane	<690	ug/L	2500	690	500		06/11/21 18:44	75-00-3	
Chloroform	<591	ug/L	2500	591	500		06/11/21 18:44	67-66-3	
Chloromethane	<818	ug/L	2500	818	500		06/11/21 18:44	74-87-3	
1,2-Dichlorobenzene	<163	ug/L	500	163	500		06/11/21 18:44	95-50-1	
1,3-Dichlorobenzene	<176	ug/L	500	176	500		06/11/21 18:44	541-73-1	
1,4-Dichlorobenzene	<446	ug/L	500	446	500		06/11/21 18:44	106-46-7	
Dichlorodifluoromethane	<228	ug/L	2500	228	500		06/11/21 18:44	75-71-8	
1,1-Dichloroethane	1040	ug/L	500	148	500		06/11/21 18:44	75-34-3	
1,2-Dichloroethane	<146	ug/L	500	146	500		06/11/21 18:44	107-06-2	
1,1-Dichloroethene	<291	ug/L	500	291	500		06/11/21 18:44	75-35-4	
cis-1,2-Dichloroethene	3870	ug/L	500	236	500		06/11/21 18:44	156-59-2	
trans-1,2-Dichloroethene	<264	ug/L	500	264	500		06/11/21 18:44	156-60-5	
1,2-Dichloropropane	<224	ug/L	500	224	500		06/11/21 18:44	78-87-5	
Ethylbenzene	2520	ug/L	500	163	500		06/11/21 18:44	100-41-4	
n-Hexane	<731	ug/L	2500	731	500		06/11/21 18:44	110-54-3	
Isopropylbenzene (Cumene)	<500	ug/L	2500	500	500		06/11/21 18:44	98-82-8	
Methylene Chloride	939J	ug/L	2500	160	500		06/11/21 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<2980	ug/L	12500	2980	500		06/11/21 18:44	108-10-1	
Methyl-tert-butyl ether	<565	ug/L	2500	565	500		06/11/21 18:44	1634-04-4	
Naphthalene	<565	ug/L	2500	565	500		06/11/21 18:44	91-20-3	
2-Propanol	29500J	ug/L	50000	4930	500		06/11/21 18:44	67-63-0	
Styrene	<178	ug/L	500	178	500		06/11/21 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	<178	ug/L	500	178	500		06/11/21 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	<189	ug/L	500	189	500		06/11/21 18:44	79-34-5	
Tetrachloroethene	<204	ug/L	500	204	500		06/11/21 18:44	127-18-4	
Toluene	47100	ug/L	500	144	500		06/11/21 18:44	108-88-3	
1,2,4-Trichlorobenzene	<475	ug/L	2500	475	500		06/11/21 18:44	120-82-1	
1,1,1-Trichloroethane	1100	ug/L	500	151	500		06/11/21 18:44	71-55-6	
1,1,2-Trichloroethane	<172	ug/L	2500	172	500		06/11/21 18:44	79-00-5	
Trichloroethene	302J	ug/L	500	160	500		06/11/21 18:44	79-01-6	
1,2,4-Trimethylbenzene	<224	ug/L	500	224	500		06/11/21 18:44	95-63-6	
1,3,5-Trimethylbenzene	<179	ug/L	500	179	500		06/11/21 18:44	108-67-8	
Vinyl chloride	246J	ug/L	500	87.2	500		06/11/21 18:44	75-01-4	
Xylene (Total)	10400	ug/L	1500	524	500		06/11/21 18:44	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%	70-130		500		06/11/21 18:44	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		500		06/11/21 18:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		500		06/11/21 18:44	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: RW13 **Lab ID: 40228183007** Collected: 06/08/21 06:55 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	7780	ug/L	1250	432	50		06/15/21 23:53	67-64-1	
Benzene	<14.8	ug/L	50.0	14.8	50		06/15/21 23:53	71-43-2	
2-Butanone (MEK)	1950	ug/L	1250	326	50		06/15/21 23:53	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		06/15/21 23:53	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		06/15/21 23:53	108-90-7	
Chloroethane	229J	ug/L	250	69.0	50		06/15/21 23:53	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		06/15/21 23:53	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		06/15/21 23:53	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		06/15/21 23:53	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		06/15/21 23:53	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		06/15/21 23:53	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		06/15/21 23:53	75-71-8	
1,1-Dichloroethane	<14.8	ug/L	50.0	14.8	50		06/15/21 23:53	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		06/15/21 23:53	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		06/15/21 23:53	75-35-4	
cis-1,2-Dichloroethene	78.1	ug/L	50.0	23.6	50		06/15/21 23:53	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		06/15/21 23:53	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		06/15/21 23:53	78-87-5	
Ethylbenzene	780	ug/L	50.0	16.3	50		06/15/21 23:53	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		06/15/21 23:53	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		06/15/21 23:53	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		06/15/21 23:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	1190J	ug/L	1250	298	50		06/15/21 23:53	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		06/15/21 23:53	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		06/15/21 23:53	91-20-3	
2-Propanol	11200	ug/L	5000	493	50		06/15/21 23:53	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		06/15/21 23:53	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		06/15/21 23:53	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		06/15/21 23:53	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		06/15/21 23:53	127-18-4	
Toluene	12600	ug/L	50.0	14.4	50		06/15/21 23:53	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		06/15/21 23:53	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		06/15/21 23:53	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		06/15/21 23:53	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		06/15/21 23:53	79-01-6	
1,2,4-Trimethylbenzene	56.3	ug/L	50.0	22.4	50		06/15/21 23:53	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		06/15/21 23:53	108-67-8	
Vinyl chloride	30.2J	ug/L	50.0	8.7	50		06/15/21 23:53	75-01-4	
Xylene (Total)	2980	ug/L	150	52.4	50		06/15/21 23:53	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		50		06/15/21 23:53	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		50		06/15/21 23:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		50		06/15/21 23:53	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC
Pace Project No.: 40228183

Sample: TRIP BLANK **Lab ID: 40228183008** Collected: 06/08/21 00:00 Received: 06/09/21 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		06/11/21 14:40	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		06/11/21 14:40	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		06/11/21 14:40	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/11/21 14:40	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/11/21 14:40	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/11/21 14:40	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/11/21 14:40	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/11/21 14:40	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/11/21 14:40	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/11/21 14:40	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/11/21 14:40	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/11/21 14:40	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/11/21 14:40	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/11/21 14:40	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/11/21 14:40	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/11/21 14:40	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/11/21 14:40	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/11/21 14:40	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/11/21 14:40	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		06/11/21 14:40	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/11/21 14:40	98-82-8	
Methylene Chloride	0.82J	ug/L	5.0	0.32	1		06/11/21 14:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		06/11/21 14:40	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/11/21 14:40	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/11/21 14:40	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		06/11/21 14:40	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		06/11/21 14:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/11/21 14:40	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/11/21 14:40	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/11/21 14:40	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/11/21 14:40	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/11/21 14:40	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/11/21 14:40	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/11/21 14:40	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/11/21 14:40	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/11/21 14:40	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/11/21 14:40	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/11/21 14:40	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/11/21 14:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		06/11/21 14:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/11/21 14:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/11/21 14:40	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

QC Batch: 387585	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40228183001

METHOD BLANK: 2235664 Matrix: Water
Associated Lab Samples: 40228183001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	06/11/21 14:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	06/11/21 14:28	
Acetone	ug/L	<8.6	25.0	06/11/21 14:28	
Chloromethane	ug/L	<1.6	5.0	06/11/21 14:28	
Methylene Chloride	ug/L	<0.32	5.0	06/11/21 14:28	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	06/11/21 14:28	
4-Bromofluorobenzene (S)	%	98	70-130	06/11/21 14:28	
Toluene-d8 (S)	%	99	70-130	06/11/21 14:28	

LABORATORY CONTROL SAMPLE: 2235665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	52.6	105	27-148	
Methylene Chloride	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2237119 2237120

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40228121003 Result	Spike Conc.	Spike Conc.	MS Result						
Chloromethane	ug/L	<1.6	50	50	74.4	71.8	149	144	17-149	3	20
Methylene Chloride	ug/L	<0.32	50	50	50.2	50.0	100	100	70-130	0	20
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						107	103	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

QC Batch: 387670 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40228183002, 40228183003, 40228183004, 40228183005, 40228183006, 40228183008

METHOD BLANK: 2236540 Matrix: Water
Associated Lab Samples: 40228183002, 40228183003, 40228183004, 40228183005, 40228183006, 40228183008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/11/21 10:55	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/11/21 10:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/11/21 10:55	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/11/21 10:55	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/11/21 10:55	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/11/21 10:55	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/11/21 10:55	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/11/21 10:55	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/11/21 10:55	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/11/21 10:55	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/11/21 10:55	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/11/21 10:55	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/11/21 10:55	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/11/21 10:55	
2-Butanone (MEK)	ug/L	<6.5	25.0	06/11/21 10:55	
2-Propanol	ug/L	<9.9	100	06/11/21 10:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	06/11/21 10:55	
Acetone	ug/L	<8.6	25.0	06/11/21 10:55	
Benzene	ug/L	<0.30	1.0	06/11/21 10:55	
Carbon tetrachloride	ug/L	<0.37	1.0	06/11/21 10:55	
Chlorobenzene	ug/L	<0.86	1.0	06/11/21 10:55	
Chloroethane	ug/L	<1.4	5.0	06/11/21 10:55	
Chloroform	ug/L	<1.2	5.0	06/11/21 10:55	
Chloromethane	ug/L	<1.6	5.0	06/11/21 10:55	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/11/21 10:55	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/11/21 10:55	
Ethylbenzene	ug/L	<0.33	1.0	06/11/21 10:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/11/21 10:55	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/11/21 10:55	
Methylene Chloride	ug/L	<0.32	5.0	06/11/21 10:55	
n-Hexane	ug/L	<1.5	5.0	06/11/21 10:55	
Naphthalene	ug/L	<1.1	5.0	06/11/21 10:55	
Styrene	ug/L	<0.36	1.0	06/11/21 10:55	
Tetrachloroethane	ug/L	<0.41	1.0	06/11/21 10:55	
Toluene	ug/L	<0.29	1.0	06/11/21 10:55	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/11/21 10:55	
Trichloroethene	ug/L	<0.32	1.0	06/11/21 10:55	
Vinyl chloride	ug/L	<0.17	1.0	06/11/21 10:55	
Xylene (Total)	ug/L	<1.0	3.0	06/11/21 10:55	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	06/11/21 10:55	

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

METHOD BLANK: 2236540 Matrix: Water
Associated Lab Samples: 40228183002, 40228183003, 40228183004, 40228183005, 40228183006, 40228183008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	101	70-130	06/11/21 10:55	
Toluene-d8 (S)	%	98	70-130	06/11/21 10:55	

LABORATORY CONTROL SAMPLE: 2236541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.7	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	66-130	
1,1,2-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1-Dichloroethane	ug/L	50	50.6	101	68-132	
1,1-Dichloroethene	ug/L	50	50.8	102	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	49.4	99	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	78-125	
1,3-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.4	103	70-130	
Benzene	ug/L	50	51.2	102	70-132	
Carbon tetrachloride	ug/L	50	58.5	117	70-130	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	48.7	97	73-137	
Chloroform	ug/L	50	53.7	107	80-122	
Chloromethane	ug/L	50	43.3	87	27-148	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	70-130	
Dichlorodifluoromethane	ug/L	50	62.6	125	22-151	
Ethylbenzene	ug/L	50	54.2	108	80-123	
Isopropylbenzene (Cumene)	ug/L	50	56.9	114	70-130	
Methyl-tert-butyl ether	ug/L	50	46.1	92	66-130	
Methylene Chloride	ug/L	50	48.4	97	70-130	
Styrene	ug/L	50	56.5	113	70-130	
Tetrachloroethene	ug/L	50	53.9	108	70-130	
Toluene	ug/L	50	52.6	105	80-121	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	70-130	
Trichloroethene	ug/L	50	52.7	105	70-130	
Vinyl chloride	ug/L	50	49.3	99	63-142	
Xylene (Total)	ug/L	150	163	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

QC Batch: 387915 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40228183007

METHOD BLANK: 2237926 Matrix: Water
Associated Lab Samples: 40228183007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/15/21 17:01	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/15/21 17:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/15/21 17:01	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/15/21 17:01	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/15/21 17:01	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/15/21 17:01	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/15/21 17:01	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/15/21 17:01	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/15/21 17:01	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/15/21 17:01	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/15/21 17:01	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/15/21 17:01	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/15/21 17:01	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/15/21 17:01	
2-Butanone (MEK)	ug/L	<6.5	25.0	06/15/21 17:01	
2-Propanol	ug/L	<9.9	100	06/15/21 17:01	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	06/15/21 17:01	
Acetone	ug/L	<8.6	25.0	06/15/21 17:01	
Benzene	ug/L	<0.30	1.0	06/15/21 17:01	
Carbon tetrachloride	ug/L	<0.37	1.0	06/15/21 17:01	
Chlorobenzene	ug/L	<0.86	1.0	06/15/21 17:01	
Chloroethane	ug/L	<1.4	5.0	06/15/21 17:01	
Chloroform	ug/L	<1.2	5.0	06/15/21 17:01	
Chloromethane	ug/L	<1.6	5.0	06/15/21 17:01	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/15/21 17:01	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/15/21 17:01	
Ethylbenzene	ug/L	<0.33	1.0	06/15/21 17:01	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/15/21 17:01	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/15/21 17:01	
Methylene Chloride	ug/L	<0.32	5.0	06/15/21 17:01	
n-Hexane	ug/L	<1.5	5.0	06/15/21 17:01	
Naphthalene	ug/L	<1.1	5.0	06/15/21 17:01	
Styrene	ug/L	<0.36	1.0	06/15/21 17:01	
Tetrachloroethane	ug/L	<0.41	1.0	06/15/21 17:01	
Toluene	ug/L	<0.29	1.0	06/15/21 17:01	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/15/21 17:01	
Trichloroethene	ug/L	<0.32	1.0	06/15/21 17:01	
Vinyl chloride	ug/L	<0.17	1.0	06/15/21 17:01	
Xylene (Total)	ug/L	<1.0	3.0	06/15/21 17:01	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	06/15/21 17:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

METHOD BLANK: 2237926 Matrix: Water
Associated Lab Samples: 40228183007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	100	70-130	06/15/21 17:01	
Toluene-d8 (S)	%	99	70-130	06/15/21 17:01	

LABORATORY CONTROL SAMPLE: 2237927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	66-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	57.4	115	68-132	
1,1-Dichloroethene	ug/L	50	52.8	106	85-126	
1,2,4-Trichlorobenzene	ug/L	50	38.8	78	70-130	
1,2-Dichlorobenzene	ug/L	50	45.2	90	70-130	
1,2-Dichloroethane	ug/L	50	48.1	96	70-130	
1,2-Dichloropropane	ug/L	50	56.9	114	78-125	
1,3-Dichlorobenzene	ug/L	50	45.7	91	70-130	
1,4-Dichlorobenzene	ug/L	50	44.9	90	70-130	
Benzene	ug/L	50	52.3	105	70-132	
Carbon tetrachloride	ug/L	50	49.8	100	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	55.8	112	73-137	
Chloroform	ug/L	50	52.3	105	80-122	
Chloromethane	ug/L	50	66.4	133	27-148	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
Dichlorodifluoromethane	ug/L	50	49.8	100	22-151	
Ethylbenzene	ug/L	50	49.8	100	80-123	
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	66-130	
Methylene Chloride	ug/L	50	48.8	98	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	47.0	94	70-130	
Toluene	ug/L	50	50.0	100	80-121	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Vinyl chloride	ug/L	50	64.2	128	63-142	
Xylene (Total)	ug/L	150	145	96	70-130	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC
Pace Project No.: 40228183

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2238206		2238207		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40228315001 Result	MS Spike Conc.	MSD Spike Conc.									
1,1,1-Trichloroethane	ug/L	<0.30	50	50	47.3	48.0	95	96	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	54.2	55.0	108	110	66-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	53.1	53.1	106	106	70-130	0	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	57.0	56.4	114	113	68-132	1	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	50.0	49.4	100	99	76-132	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.4	44.1	85	88	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.9	49.2	96	98	70-130	3	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	49.3	48.4	99	97	70-130	2	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	55.3	55.4	111	111	77-125	0	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	46.4	47.7	93	95	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	47.0	48.1	94	96	70-130	2	20		
Benzene	ug/L	<0.30	50	50	51.4	51.8	103	104	70-132	1	20		
Carbon tetrachloride	ug/L	<0.37	50	50	47.9	49.1	96	98	70-132	3	20		
Chlorobenzene	ug/L	<0.86	50	50	49.8	49.8	100	100	70-130	0	20		
Chloroethane	ug/L	<1.4	50	50	53.8	54.7	108	109	70-137	1	20		
Chloroform	ug/L	<1.2	50	50	50.0	51.7	100	103	80-122	3	20		
Chloromethane	ug/L	<1.6	50	50	60.2	61.6	120	123	17-149	2	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.4	48.5	97	97	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	41.2	41.6	82	83	22-158	1	20		
Ethylbenzene	ug/L	<0.33	50	50	50.2	50.7	100	101	80-123	1	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.3	52.3	101	105	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.1	56.2	90	112	66-130	22	20	R1	
Methylene Chloride	ug/L	<0.32	50	50	48.6	48.9	97	98	70-130	1	20		
Styrene	ug/L	<0.36	50	50	51.5	51.7	103	103	70-130	0	20		
Tetrachloroethene	ug/L	<0.41	50	50	47.7	48.6	95	97	70-130	2	20		
Toluene	ug/L	<0.29	50	50	49.4	50.4	99	101	80-121	2	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	48.4	57.7	97	115	70-134	18	20		
Trichloroethene	ug/L	<0.32	50	50	48.9	49.0	98	98	70-130	0	20		
Vinyl chloride	ug/L	<0.17	50	50	61.5	62.1	123	124	61-143	1	20		
Xylene (Total)	ug/L	<1.0	150	150	144	146	96	98	70-130	1	20		
1,2-Dichlorobenzene-d4 (S)	%						99	98	70-130				
4-Bromofluorobenzene (S)	%						105	106	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: VOC
Pace Project No.: 40228183

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VOC
Pace Project No.: 40228183

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40228183001	RESERVOIR	EPA 8260	387585		
40228183002	PRODUCTION	EPA 8260	387670		
40228183003	RW6	EPA 8260	387670		
40228183004	RW10	EPA 8260	387670		
40228183005	RW11	EPA 8260	387670		
40228183006	RW12	EPA 8260	387670		
40228183007	RW13	EPA 8260	387915		
40228183008	TRIP BLANK	EPA 8260	387670		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: WR Environmental

Project # 46228183

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

Initial when completed: [Signature] 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
001																3																2.5 / 5 / 10
002																3																2.5 / 5 / 10
003																3																2.5 / 5 / 10
004																3																2.5 / 5 / 10
005																3																2.5 / 5 / 10
006																3																2.5 / 5 / 10
007																3																2.5 / 5 / 10
008																3																2.5 / 5 / 10
009																3																2.5 / 5 / 10
010																3																2.5 / 5 / 10
011																3																2.5 / 5 / 10
012																3																2.5 / 5 / 10
013																3																2.5 / 5 / 10
014																3																2.5 / 5 / 10
015																3																2.5 / 5 / 10
016																3																2.5 / 5 / 10
017																3																2.5 / 5 / 10
018																3																2.5 / 5 / 10
019																3																2.5 / 5 / 10
020																3																2.5 / 5 / 10

[Signature] 6/19/21

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
--	---	--	--

 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#: 40228183

 Client Name: WRP environmental

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

 Tracking #: SP 003359 03 110021 416784

 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 - 9 Type of Ice: Wet Blue Dry (None) Samples on ice, cooling process has begun

 Cooler Temperature Uncorr: 9 /Corr: 10 ①

 Temp Blank Present: yes no

 Biological Tissue is Frozen: yes no

Person examining contents:

 Date: 6/19/21 Initials: K8

 Labeled By Initials: FEL

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg #, proj name + #</u> <u>K8 6/19/21</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
- Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
- Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
- Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>expired april 2021 per bottle</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>K8 6/19/21</u>
Pace Trip Blank Lot # (if purchased): <u>127826-30YR</u>		

Client Notification/ Resolution:

 If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

① OK to process per Dan K8 6/19/21

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

July 23, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: VOC TESTING
Pace Project No.: 40229864

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VOC TESTING

Pace Project No.: 40229864

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

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SAMPLE SUMMARY

Project: VOC TESTING

Pace Project No.: 40229864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40229864001	RESERVOIR	Water	07/13/21 06:50	07/14/21 09:25
40229864002	PRODUCTION	Water	07/13/21 06:30	07/14/21 09:25
40229864003	RW6	Water	07/13/21 07:00	07/14/21 09:25
40229864004	RW10	Water	07/13/21 06:40	07/14/21 09:25
40229864005	RW11	Water	07/13/21 06:45	07/14/21 09:25
40229864006	RW12	Water	07/13/21 06:35	07/14/21 09:25
40229864007	RW13	Water	07/13/21 06:55	07/14/21 09:25

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SAMPLE ANALYTE COUNT

Project: VOC TESTING
Pace Project No.: 40229864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40229864001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40229864002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40229864003	RW6	EPA 8260	LAP	42	PASI-G
40229864004	RW10	EPA 8260	LAP	42	PASI-G
40229864005	RW11	EPA 8260	LAP	42	PASI-G
40229864006	RW12	EPA 8260	LAP	42	PASI-G
40229864007	RW13	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40229864

Sample: RESERVOIR **Lab ID: 40229864001** Collected: 07/13/21 06:50 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		07/15/21 11:44	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		07/15/21 11:44	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/15/21 11:44	74-87-3	
Methylene Chloride	2.1J	ug/L	5.0	0.32	1		07/15/21 11:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		07/15/21 11:44	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		07/15/21 11:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		07/15/21 11:44	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		07/15/21 11:44	2037-26-5	

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40229864

Sample: PRODUCTION **Lab ID: 40229864002** Collected: 07/13/21 06:30 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		07/23/21 11:06	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		07/23/21 11:06	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		07/23/21 11:06	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/23/21 11:06	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/23/21 11:06	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/23/21 11:06	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/23/21 11:06	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/23/21 11:06	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/23/21 11:06	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/23/21 11:06	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/23/21 11:06	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/23/21 11:06	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/23/21 11:06	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/23/21 11:06	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/23/21 11:06	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/23/21 11:06	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/23/21 11:06	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/23/21 11:06	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/23/21 11:06	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		07/23/21 11:06	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		07/23/21 11:06	98-82-8	
Methylene Chloride	1.4J	ug/L	5.0	0.32	1		07/23/21 11:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		07/23/21 11:06	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/23/21 11:06	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/23/21 11:06	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		07/23/21 11:06	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		07/23/21 11:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		07/23/21 11:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		07/23/21 11:06	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/23/21 11:06	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		07/23/21 11:06	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		07/23/21 11:06	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/23/21 11:06	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/23/21 11:06	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/23/21 11:06	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/23/21 11:06	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/23/21 11:06	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/23/21 11:06	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		07/23/21 11:06	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		07/23/21 11:06	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		07/23/21 11:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		07/23/21 11:06	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40229864

Sample: RW6 **Lab ID: 40229864003** Collected: 07/13/21 07:00 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	1060J	ug/L	1250	432	50		07/23/21 09:14	67-64-1	
Benzene	31.2J	ug/L	50.0	14.8	50		07/23/21 09:14	71-43-2	
2-Butanone (MEK)	384J	ug/L	1250	326	50		07/23/21 09:14	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		07/23/21 09:14	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		07/23/21 09:14	108-90-7	
Chloroethane	134J	ug/L	250	69.0	50		07/23/21 09:14	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		07/23/21 09:14	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		07/23/21 09:14	74-87-3	
1,2-Dichlorobenzene	17.0J	ug/L	50.0	16.3	50		07/23/21 09:14	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		07/23/21 09:14	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		07/23/21 09:14	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		07/23/21 09:14	75-71-8	
1,1-Dichloroethane	19.7J	ug/L	50.0	14.8	50		07/23/21 09:14	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		07/23/21 09:14	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		07/23/21 09:14	75-35-4	
cis-1,2-Dichloroethene	<23.6	ug/L	50.0	23.6	50		07/23/21 09:14	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		07/23/21 09:14	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		07/23/21 09:14	78-87-5	
Ethylbenzene	385	ug/L	50.0	16.3	50		07/23/21 09:14	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		07/23/21 09:14	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		07/23/21 09:14	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		07/23/21 09:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	534J	ug/L	1250	298	50		07/23/21 09:14	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		07/23/21 09:14	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		07/23/21 09:14	91-20-3	
2-Propanol	2480J	ug/L	5000	493	50		07/23/21 09:14	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		07/23/21 09:14	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		07/23/21 09:14	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		07/23/21 09:14	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		07/23/21 09:14	127-18-4	
Toluene	10400	ug/L	50.0	14.4	50		07/23/21 09:14	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		07/23/21 09:14	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		07/23/21 09:14	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		07/23/21 09:14	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		07/23/21 09:14	79-01-6	
1,2,4-Trimethylbenzene	28.6J	ug/L	50.0	22.4	50		07/23/21 09:14	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		07/23/21 09:14	108-67-8	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		07/23/21 09:14	75-01-4	
Xylene (Total)	2500	ug/L	150	52.4	50		07/23/21 09:14	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		50		07/23/21 09:14	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		50		07/23/21 09:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		50		07/23/21 09:14	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40229864

Sample: RW10 **Lab ID: 40229864004** Collected: 07/13/21 06:40 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	11000	ug/L	2500	864	100		07/23/21 09:33	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		07/23/21 09:33	71-43-2	
2-Butanone (MEK)	30300	ug/L	2500	652	100		07/23/21 09:33	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		07/23/21 09:33	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		07/23/21 09:33	108-90-7	
Chloroethane	<138	ug/L	500	138	100		07/23/21 09:33	75-00-3	
Chloroform	<118	ug/L	500	118	100		07/23/21 09:33	67-66-3	
Chloromethane	<164	ug/L	500	164	100		07/23/21 09:33	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		07/23/21 09:33	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		07/23/21 09:33	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		07/23/21 09:33	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		07/23/21 09:33	75-71-8	
1,1-Dichloroethane	30.7J	ug/L	100	29.6	100		07/23/21 09:33	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		07/23/21 09:33	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		07/23/21 09:33	75-35-4	
cis-1,2-Dichloroethene	288	ug/L	100	47.2	100		07/23/21 09:33	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		07/23/21 09:33	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		07/23/21 09:33	78-87-5	
Ethylbenzene	1170	ug/L	100	32.5	100		07/23/21 09:33	100-41-4	
n-Hexane	<146	ug/L	500	146	100		07/23/21 09:33	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		07/23/21 09:33	98-82-8	
Methylene Chloride	142J	ug/L	500	31.9	100		07/23/21 09:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<595	ug/L	2500	595	100		07/23/21 09:33	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		07/23/21 09:33	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		07/23/21 09:33	91-20-3	
2-Propanol	8220J	ug/L	10000	985	100		07/23/21 09:33	67-63-0	
Styrene	79.6J	ug/L	100	35.6	100		07/23/21 09:33	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		07/23/21 09:33	630-20-6	
1,1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		07/23/21 09:33	79-34-5	
Tetrachloroethene	61.1J	ug/L	100	40.9	100		07/23/21 09:33	127-18-4	
Toluene	14200	ug/L	100	28.8	100		07/23/21 09:33	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		07/23/21 09:33	120-82-1	
1,1,1-Trichloroethane	692	ug/L	100	30.3	100		07/23/21 09:33	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		07/23/21 09:33	79-00-5	
Trichloroethene	638	ug/L	100	32.0	100		07/23/21 09:33	79-01-6	
1,2,4-Trimethylbenzene	94.8J	ug/L	100	44.9	100		07/23/21 09:33	95-63-6	
1,3,5-Trimethylbenzene	36.0J	ug/L	100	35.7	100		07/23/21 09:33	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		07/23/21 09:33	75-01-4	
Xylene (Total)	5130	ug/L	300	105	100		07/23/21 09:33	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		100		07/23/21 09:33	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		100		07/23/21 09:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		100		07/23/21 09:33	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40229864

Sample: RW11 **Lab ID: 40229864005** Collected: 07/13/21 06:45 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<346	ug/L	1000	346	40		07/23/21 09:51	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		07/23/21 09:51	71-43-2	
2-Butanone (MEK)	<261	ug/L	1000	261	40		07/23/21 09:51	78-93-3	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		07/23/21 09:51	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		07/23/21 09:51	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		07/23/21 09:51	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		07/23/21 09:51	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		07/23/21 09:51	74-87-3	
1,2-Dichlorobenzene	<13.0	ug/L	40.0	13.0	40		07/23/21 09:51	95-50-1	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		07/23/21 09:51	541-73-1	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		07/23/21 09:51	106-46-7	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		07/23/21 09:51	75-71-8	
1,1-Dichloroethane	241	ug/L	40.0	11.8	40		07/23/21 09:51	75-34-3	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		07/23/21 09:51	107-06-2	
1,1-Dichloroethene	<23.3	ug/L	40.0	23.3	40		07/23/21 09:51	75-35-4	
cis-1,2-Dichloroethene	1250	ug/L	40.0	18.9	40		07/23/21 09:51	156-59-2	
trans-1,2-Dichloroethene	<21.1	ug/L	40.0	21.1	40		07/23/21 09:51	156-60-5	
1,2-Dichloropropane	<17.9	ug/L	40.0	17.9	40		07/23/21 09:51	78-87-5	
Ethylbenzene	1330	ug/L	40.0	13.0	40		07/23/21 09:51	100-41-4	
n-Hexane	<58.5	ug/L	200	58.5	40		07/23/21 09:51	110-54-3	
Isopropylbenzene (Cumene)	<40.0	ug/L	200	40.0	40		07/23/21 09:51	98-82-8	
Methylene Chloride	21.0J	ug/L	200	12.8	40		07/23/21 09:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		07/23/21 09:51	108-10-1	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		07/23/21 09:51	1634-04-4	
Naphthalene	<45.2	ug/L	200	45.2	40		07/23/21 09:51	91-20-3	
2-Propanol	612J	ug/L	4000	394	40		07/23/21 09:51	67-63-0	
Styrene	<14.3	ug/L	40.0	14.3	40		07/23/21 09:51	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		07/23/21 09:51	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		07/23/21 09:51	79-34-5	
Tetrachloroethene	<16.3	ug/L	40.0	16.3	40		07/23/21 09:51	127-18-4	
Toluene	5070	ug/L	40.0	11.5	40		07/23/21 09:51	108-88-3	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		07/23/21 09:51	120-82-1	
1,1,1-Trichloroethane	149	ug/L	40.0	12.1	40		07/23/21 09:51	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/L	200	13.8	40		07/23/21 09:51	79-00-5	
Trichloroethene	<12.8	ug/L	40.0	12.8	40		07/23/21 09:51	79-01-6	
1,2,4-Trimethylbenzene	277	ug/L	40.0	17.9	40		07/23/21 09:51	95-63-6	
1,3,5-Trimethylbenzene	68.4	ug/L	40.0	14.3	40		07/23/21 09:51	108-67-8	
Vinyl chloride	128	ug/L	40.0	7.0	40		07/23/21 09:51	75-01-4	
Xylene (Total)	5270	ug/L	120	41.9	40		07/23/21 09:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	70-130		40		07/23/21 09:51	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		40		07/23/21 09:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		40		07/23/21 09:51	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40229864

Sample: RW12 **Lab ID: 40229864006** Collected: 07/13/21 06:35 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	6020J	ug/L	6250	2160	250		07/23/21 10:10	67-64-1	
Benzene	74.2J	ug/L	250	73.9	250		07/23/21 10:10	71-43-2	
2-Butanone (MEK)	5370J	ug/L	6250	1630	250		07/23/21 10:10	78-93-3	
Carbon tetrachloride	<92.3	ug/L	250	92.3	250		07/23/21 10:10	56-23-5	
Chlorobenzene	<214	ug/L	250	214	250		07/23/21 10:10	108-90-7	
Chloroethane	<345	ug/L	1250	345	250		07/23/21 10:10	75-00-3	
Chloroform	<296	ug/L	1250	296	250		07/23/21 10:10	67-66-3	
Chloromethane	<409	ug/L	1250	409	250		07/23/21 10:10	74-87-3	
1,2-Dichlorobenzene	<81.5	ug/L	250	81.5	250		07/23/21 10:10	95-50-1	
1,3-Dichlorobenzene	<87.8	ug/L	250	87.8	250		07/23/21 10:10	541-73-1	
1,4-Dichlorobenzene	<223	ug/L	250	223	250		07/23/21 10:10	106-46-7	
Dichlorodifluoromethane	<114	ug/L	1250	114	250		07/23/21 10:10	75-71-8	
1,1-Dichloroethane	657	ug/L	250	73.9	250		07/23/21 10:10	75-34-3	
1,2-Dichloroethane	<72.9	ug/L	250	72.9	250		07/23/21 10:10	107-06-2	
1,1-Dichloroethene	<146	ug/L	250	146	250		07/23/21 10:10	75-35-4	
cis-1,2-Dichloroethene	3410	ug/L	250	118	250		07/23/21 10:10	156-59-2	
trans-1,2-Dichloroethene	<132	ug/L	250	132	250		07/23/21 10:10	156-60-5	
1,2-Dichloropropane	<112	ug/L	250	112	250		07/23/21 10:10	78-87-5	
Ethylbenzene	3070	ug/L	250	81.3	250		07/23/21 10:10	100-41-4	
n-Hexane	<366	ug/L	1250	366	250		07/23/21 10:10	110-54-3	
Isopropylbenzene (Cumene)	<250	ug/L	1250	250	250		07/23/21 10:10	98-82-8	
Methylene Chloride	1160J	ug/L	1250	79.9	250		07/23/21 10:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	3120J	ug/L	6250	1490	250		07/23/21 10:10	108-10-1	
Methyl-tert-butyl ether	<282	ug/L	1250	282	250		07/23/21 10:10	1634-04-4	
Naphthalene	<282	ug/L	1250	282	250		07/23/21 10:10	91-20-3	
2-Propanol	32700	ug/L	25000	2460	250		07/23/21 10:10	67-63-0	
Styrene	<89.1	ug/L	250	89.1	250		07/23/21 10:10	100-42-5	
1,1,1,2-Tetrachloroethane	<88.8	ug/L	250	88.8	250		07/23/21 10:10	630-20-6	
1,1,1,2,2-Tetrachloroethane	<94.5	ug/L	250	94.5	250		07/23/21 10:10	79-34-5	
Tetrachloroethene	155J	ug/L	250	102	250		07/23/21 10:10	127-18-4	
Toluene	56300	ug/L	250	72.0	250		07/23/21 10:10	108-88-3	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		07/23/21 10:10	120-82-1	
1,1,1-Trichloroethane	2350	ug/L	250	75.6	250		07/23/21 10:10	71-55-6	
1,1,2-Trichloroethane	<86.1	ug/L	1250	86.1	250		07/23/21 10:10	79-00-5	
Trichloroethene	1250	ug/L	250	79.9	250		07/23/21 10:10	79-01-6	
1,2,4-Trimethylbenzene	161J	ug/L	250	112	250		07/23/21 10:10	95-63-6	
1,3,5-Trimethylbenzene	<89.3	ug/L	250	89.3	250		07/23/21 10:10	108-67-8	
Vinyl chloride	295	ug/L	250	43.6	250		07/23/21 10:10	75-01-4	
Xylene (Total)	11100	ug/L	750	262	250		07/23/21 10:10	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		250		07/23/21 10:10	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		250		07/23/21 10:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		250		07/23/21 10:10	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40229864

Sample: RW13 **Lab ID: 40229864007** Collected: 07/13/21 06:55 Received: 07/14/21 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	1440	ug/L	1250	432	50		07/23/21 10:29	67-64-1	
Benzene	15.3J	ug/L	50.0	14.8	50		07/23/21 10:29	71-43-2	
2-Butanone (MEK)	763J	ug/L	1250	326	50		07/23/21 10:29	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		07/23/21 10:29	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		07/23/21 10:29	108-90-7	
Chloroethane	87.7J	ug/L	250	69.0	50		07/23/21 10:29	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		07/23/21 10:29	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		07/23/21 10:29	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		07/23/21 10:29	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		07/23/21 10:29	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		07/23/21 10:29	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		07/23/21 10:29	75-71-8	
1,1-Dichloroethane	50.1	ug/L	50.0	14.8	50		07/23/21 10:29	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		07/23/21 10:29	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		07/23/21 10:29	75-35-4	
cis-1,2-Dichloroethene	77.4	ug/L	50.0	23.6	50		07/23/21 10:29	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		07/23/21 10:29	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		07/23/21 10:29	78-87-5	
Ethylbenzene	537	ug/L	50.0	16.3	50		07/23/21 10:29	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		07/23/21 10:29	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		07/23/21 10:29	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		07/23/21 10:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	488J	ug/L	1250	298	50		07/23/21 10:29	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		07/23/21 10:29	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		07/23/21 10:29	91-20-3	
2-Propanol	4500J	ug/L	5000	493	50		07/23/21 10:29	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		07/23/21 10:29	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		07/23/21 10:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		07/23/21 10:29	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		07/23/21 10:29	127-18-4	
Toluene	7940	ug/L	50.0	14.4	50		07/23/21 10:29	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		07/23/21 10:29	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		07/23/21 10:29	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		07/23/21 10:29	79-00-5	
Trichloroethene	17.8J	ug/L	50.0	16.0	50		07/23/21 10:29	79-01-6	
1,2,4-Trimethylbenzene	52.4	ug/L	50.0	22.4	50		07/23/21 10:29	95-63-6	
1,3,5-Trimethylbenzene	20.5J	ug/L	50.0	17.9	50		07/23/21 10:29	108-67-8	
Vinyl chloride	25.4J	ug/L	50.0	8.7	50		07/23/21 10:29	75-01-4	
Xylene (Total)	2120	ug/L	150	52.4	50		07/23/21 10:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		50		07/23/21 10:29	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		50		07/23/21 10:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		50		07/23/21 10:29	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40229864

QC Batch: 390427	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40229864001

METHOD BLANK: 2251495 Matrix: Water
Associated Lab Samples: 40229864001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	07/15/21 08:19	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	07/15/21 08:19	
Acetone	ug/L	<8.6	25.0	07/15/21 08:19	
Chloromethane	ug/L	<1.6	5.0	07/15/21 08:19	
Methylene Chloride	ug/L	<0.32	5.0	07/15/21 08:19	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	07/15/21 08:19	
4-Bromofluorobenzene (S)	%	109	70-130	07/15/21 08:19	
Toluene-d8 (S)	%	103	70-130	07/15/21 08:19	

LABORATORY CONTROL SAMPLE: 2251496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	45.8	92	27-148	
Methylene Chloride	ug/L	50	53.1	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2252053 2252054

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40229788001 Result	Spike Conc.	Spike Conc.	MS Result						
Chloromethane	ug/L	<1.6	50	50	46.1	45.7	92	91	17-149	1	20
Methylene Chloride	ug/L	<0.32	50	50	51.8	52.2	104	104	70-130	1	20
1,2-Dichlorobenzene-d4 (S)	%						103	103	70-130		
4-Bromofluorobenzene (S)	%						108	109	70-130		
Toluene-d8 (S)	%						103	104	70-130		

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40229864

QC Batch: 390687 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40229864002, 40229864003, 40229864004, 40229864005, 40229864006, 40229864007

METHOD BLANK: 2253285 Matrix: Water
Associated Lab Samples: 40229864002, 40229864003, 40229864004, 40229864005, 40229864006, 40229864007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	07/23/21 07:52	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	07/23/21 07:52	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	07/23/21 07:52	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	07/23/21 07:52	
1,1-Dichloroethane	ug/L	<0.30	1.0	07/23/21 07:52	
1,1-Dichloroethene	ug/L	<0.58	1.0	07/23/21 07:52	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/23/21 07:52	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/23/21 07:52	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	07/23/21 07:52	
1,2-Dichloroethane	ug/L	<0.29	1.0	07/23/21 07:52	
1,2-Dichloropropane	ug/L	<0.45	1.0	07/23/21 07:52	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/23/21 07:52	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	07/23/21 07:52	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	07/23/21 07:52	
2-Butanone (MEK)	ug/L	<6.5	25.0	07/23/21 07:52	
2-Propanol	ug/L	<9.9	100	07/23/21 07:52	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	07/23/21 07:52	
Acetone	ug/L	<8.6	25.0	07/23/21 07:52	
Benzene	ug/L	<0.30	1.0	07/23/21 07:52	
Carbon tetrachloride	ug/L	<0.37	1.0	07/23/21 07:52	
Chlorobenzene	ug/L	<0.86	1.0	07/23/21 07:52	
Chloroethane	ug/L	<1.4	5.0	07/23/21 07:52	
Chloroform	ug/L	<1.2	5.0	07/23/21 07:52	
Chloromethane	ug/L	<1.6	5.0	07/23/21 07:52	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/23/21 07:52	
Dichlorodifluoromethane	ug/L	<0.46	5.0	07/23/21 07:52	
Ethylbenzene	ug/L	<0.33	1.0	07/23/21 07:52	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	07/23/21 07:52	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/23/21 07:52	
Methylene Chloride	ug/L	<0.32	5.0	07/23/21 07:52	
n-Hexane	ug/L	<1.5	5.0	07/23/21 07:52	
Naphthalene	ug/L	<1.1	5.0	07/23/21 07:52	
Styrene	ug/L	<0.36	1.0	07/23/21 07:52	
Tetrachloroethane	ug/L	<0.41	1.0	07/23/21 07:52	
Toluene	ug/L	<0.29	1.0	07/23/21 07:52	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/23/21 07:52	
Trichloroethene	ug/L	<0.32	1.0	07/23/21 07:52	
Vinyl chloride	ug/L	<0.17	1.0	07/23/21 07:52	
Xylene (Total)	ug/L	<1.0	3.0	07/23/21 07:52	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	07/23/21 07:52	

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QUALITY CONTROL DATA

Project: VOC TESTING

Pace Project No.: 40229864

METHOD BLANK: 2253285

Matrix: Water

Associated Lab Samples: 40229864002, 40229864003, 40229864004, 40229864005, 40229864006, 40229864007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	112	70-130	07/23/21 07:52	
Toluene-d8 (S)	%	101	70-130	07/23/21 07:52	

LABORATORY CONTROL SAMPLE: 2253286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.2	112	66-130	
1,1,2-Trichloroethane	ug/L	50	52.1	104	70-130	
1,1-Dichloroethane	ug/L	50	54.0	108	68-132	
1,1-Dichloroethene	ug/L	50	46.0	92	85-126	
1,2,4-Trichlorobenzene	ug/L	50	46.7	93	70-130	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane	ug/L	50	47.7	95	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	78-125	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,4-Dichlorobenzene	ug/L	50	51.6	103	70-130	
Benzene	ug/L	50	53.8	108	70-132	
Carbon tetrachloride	ug/L	50	56.6	113	70-130	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	43.3	87	73-137	
Chloroform	ug/L	50	52.6	105	80-122	
Chloromethane	ug/L	50	47.4	95	27-148	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
Dichlorodifluoromethane	ug/L	50	57.5	115	22-151	
Ethylbenzene	ug/L	50	54.2	108	80-123	
Isopropylbenzene (Cumene)	ug/L	50	55.4	111	70-130	
Methyl-tert-butyl ether	ug/L	50	44.9	90	66-130	
Methylene Chloride	ug/L	50	51.7	103	70-130	
Styrene	ug/L	50	51.3	103	70-130	
Tetrachloroethane	ug/L	50	55.7	111	70-130	
Toluene	ug/L	50	53.5	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	70-130	
Trichloroethene	ug/L	50	54.7	109	70-130	
Vinyl chloride	ug/L	50	50.7	101	63-142	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALIFIERS

Project: VOC TESTING

Pace Project No.: 40229864

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.

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TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VOC TESTING

Pace Project No.: 40229864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40229864001	RESERVOIR	EPA 8260	390427		
40229864002	PRODUCTION	EPA 8260	390687		
40229864003	RW6	EPA 8260	390687		
40229864004	RW10	EPA 8260	390687		
40229864005	RW11	EPA 8260	390687		
40229864006	RW12	EPA 8260	390687		
40229864007	RW13	EPA 8260	390687		

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Sample Preservation Receipt Form

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

Client Name: WRR Env. Serv.

Project # 40229864

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic					Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	AG1U	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																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			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	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 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 #: _____

Client Name: WRR Env. Serv.

WO# : 40229864

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



Tracking #: 003359 03 19421 40204

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 - 102 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5 / Corr: 3

Person examining contents:	
Date: <u>7/14/21</u>	Initials: <u>EL</u>
Labeled By Initials: <u>JB</u>	

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Print# + Name, Pg# 71421 EL</u>
Chain of Custody Relinquished: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
Trip Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

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

August 10, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: VOC TESTING
Pace Project No.: 40231062

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VOC TESTING

Pace Project No.: 40231062

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

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SAMPLE SUMMARY

Project: VOC TESTING

Pace Project No.: 40231062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40231062001	RESERVOIR	Water	08/03/21 06:40	08/04/21 09:15
40231062002	PRODUCTION	Water	08/03/21 06:30	08/04/21 09:15
40231062003	RW6	Water	08/03/21 06:45	08/04/21 09:15
40231062004	RW11	Water	08/03/21 06:35	08/04/21 09:15
40231062005	RW13	Water	08/03/21 06:50	08/04/21 09:15
40231062006	TRIP BLANK	Water	08/03/21 00:00	08/04/21 09:15

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SAMPLE ANALYTE COUNT

Project: VOC TESTING

Pace Project No.: 40231062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40231062001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40231062002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40231062003	RW6	EPA 8260	LAP	42	PASI-G
40231062004	RW11	EPA 8260	LAP	42	PASI-G
40231062005	RW13	EPA 8260	LAP	42	PASI-G
40231062006	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40231062

Sample: RESERVOIR **Lab ID: 40231062001** Collected: 08/03/21 06:40 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		08/09/21 12:35	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		08/09/21 12:35	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		08/09/21 12:35	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		08/09/21 12:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		08/09/21 12:35	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		08/09/21 12:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		08/09/21 12:35	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		08/09/21 12:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40231062

Sample: PRODUCTION **Lab ID: 40231062002** Collected: 08/03/21 06:30 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		08/05/21 14:32	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		08/05/21 14:32	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		08/05/21 14:32	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		08/05/21 14:32	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		08/05/21 14:32	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		08/05/21 14:32	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		08/05/21 14:32	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		08/05/21 14:32	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		08/05/21 14:32	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		08/05/21 14:32	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		08/05/21 14:32	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		08/05/21 14:32	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		08/05/21 14:32	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		08/05/21 14:32	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		08/05/21 14:32	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/05/21 14:32	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/05/21 14:32	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		08/05/21 14:32	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		08/05/21 14:32	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/05/21 14:32	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		08/05/21 14:32	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		08/05/21 14:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		08/05/21 14:32	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		08/05/21 14:32	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/05/21 14:32	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		08/05/21 14:32	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		08/05/21 14:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		08/05/21 14:32	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		08/05/21 14:32	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/05/21 14:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/05/21 14:32	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/05/21 14:32	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		08/05/21 14:32	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		08/05/21 14:32	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/05/21 14:32	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		08/05/21 14:32	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		08/05/21 14:32	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/05/21 14:32	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		08/05/21 14:32	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		08/05/21 14:32	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		08/05/21 14:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		08/05/21 14:32	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40231062

Sample: RW6 **Lab ID: 40231062003** Collected: 08/03/21 06:45 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	1750J	ug/L	2500	864	100		08/05/21 18:08	67-64-1	
Benzene	32.2J	ug/L	100	29.5	100		08/05/21 18:08	71-43-2	
2-Butanone (MEK)	<652	ug/L	2500	652	100		08/05/21 18:08	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		08/05/21 18:08	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		08/05/21 18:08	108-90-7	
Chloroethane	212J	ug/L	500	138	100		08/05/21 18:08	75-00-3	
Chloroform	<118	ug/L	500	118	100		08/05/21 18:08	67-66-3	
Chloromethane	<164	ug/L	500	164	100		08/05/21 18:08	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		08/05/21 18:08	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		08/05/21 18:08	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		08/05/21 18:08	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		08/05/21 18:08	75-71-8	
1,1-Dichloroethane	30.1J	ug/L	100	29.6	100		08/05/21 18:08	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		08/05/21 18:08	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		08/05/21 18:08	75-35-4	
cis-1,2-Dichloroethene	<47.2	ug/L	100	47.2	100		08/05/21 18:08	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		08/05/21 18:08	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		08/05/21 18:08	78-87-5	
Ethylbenzene	395	ug/L	100	32.5	100		08/05/21 18:08	100-41-4	
n-Hexane	<146	ug/L	500	146	100		08/05/21 18:08	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		08/05/21 18:08	98-82-8	
Methylene Chloride	<31.9	ug/L	500	31.9	100		08/05/21 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	902J	ug/L	2500	595	100		08/05/21 18:08	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		08/05/21 18:08	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		08/05/21 18:08	91-20-3	
2-Propanol	4760J	ug/L	10000	985	100		08/05/21 18:08	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		08/05/21 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		08/05/21 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		08/05/21 18:08	79-34-5	
Tetrachloroethene	<40.9	ug/L	100	40.9	100		08/05/21 18:08	127-18-4	
Toluene	10500	ug/L	100	28.8	100		08/05/21 18:08	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		08/05/21 18:08	120-82-1	
1,1,1-Trichloroethane	<30.3	ug/L	100	30.3	100		08/05/21 18:08	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		08/05/21 18:08	79-00-5	
Trichloroethene	<32.0	ug/L	100	32.0	100		08/05/21 18:08	79-01-6	
1,2,4-Trimethylbenzene	<44.9	ug/L	100	44.9	100		08/05/21 18:08	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		08/05/21 18:08	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		08/05/21 18:08	75-01-4	
Xylene (Total)	2640	ug/L	300	105	100		08/05/21 18:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	70-130		100		08/05/21 18:08	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		100		08/05/21 18:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		100		08/05/21 18:08	2199-69-1	

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ANALYTICAL RESULTS

Project: VOC TESTING
Pace Project No.: 40231062

Sample: RW11 **Lab ID: 40231062004** Collected: 08/03/21 06:35 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<346	ug/L	1000	346	40		08/05/21 18:28	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		08/05/21 18:28	71-43-2	
2-Butanone (MEK)	<261	ug/L	1000	261	40		08/05/21 18:28	78-93-3	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		08/05/21 18:28	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		08/05/21 18:28	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		08/05/21 18:28	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		08/05/21 18:28	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		08/05/21 18:28	74-87-3	
1,2-Dichlorobenzene	17.9J	ug/L	40.0	13.0	40		08/05/21 18:28	95-50-1	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		08/05/21 18:28	541-73-1	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		08/05/21 18:28	106-46-7	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		08/05/21 18:28	75-71-8	
1,1-Dichloroethane	433	ug/L	40.0	11.8	40		08/05/21 18:28	75-34-3	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		08/05/21 18:28	107-06-2	
1,1-Dichloroethene	<23.3	ug/L	40.0	23.3	40		08/05/21 18:28	75-35-4	
cis-1,2-Dichloroethene	1760	ug/L	40.0	18.9	40		08/05/21 18:28	156-59-2	
trans-1,2-Dichloroethene	<21.1	ug/L	40.0	21.1	40		08/05/21 18:28	156-60-5	
1,2-Dichloropropane	<17.9	ug/L	40.0	17.9	40		08/05/21 18:28	78-87-5	
Ethylbenzene	2070	ug/L	40.0	13.0	40		08/05/21 18:28	100-41-4	
n-Hexane	<58.5	ug/L	200	58.5	40		08/05/21 18:28	110-54-3	
Isopropylbenzene (Cumene)	51.5J	ug/L	200	40.0	40		08/05/21 18:28	98-82-8	
Methylene Chloride	<12.8	ug/L	200	12.8	40		08/05/21 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		08/05/21 18:28	108-10-1	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		08/05/21 18:28	1634-04-4	
Naphthalene	<45.2	ug/L	200	45.2	40		08/05/21 18:28	91-20-3	
2-Propanol	576J	ug/L	4000	394	40		08/05/21 18:28	67-63-0	
Styrene	<14.3	ug/L	40.0	14.3	40		08/05/21 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		08/05/21 18:28	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		08/05/21 18:28	79-34-5	
Tetrachloroethene	19.7J	ug/L	40.0	16.3	40		08/05/21 18:28	127-18-4	
Toluene	7790	ug/L	40.0	11.5	40		08/05/21 18:28	108-88-3	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		08/05/21 18:28	120-82-1	
1,1,1-Trichloroethane	213	ug/L	40.0	12.1	40		08/05/21 18:28	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/L	200	13.8	40		08/05/21 18:28	79-00-5	
Trichloroethene	23.3J	ug/L	40.0	12.8	40		08/05/21 18:28	79-01-6	
1,2,4-Trimethylbenzene	401	ug/L	40.0	17.9	40		08/05/21 18:28	95-63-6	
1,3,5-Trimethylbenzene	90.4	ug/L	40.0	14.3	40		08/05/21 18:28	108-67-8	
Vinyl chloride	271	ug/L	40.0	7.0	40		08/05/21 18:28	75-01-4	
Xylene (Total)	8750	ug/L	120	41.9	40		08/05/21 18:28	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		40		08/05/21 18:28	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		40		08/05/21 18:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		40		08/05/21 18:28	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40231062

Sample: RW13 **Lab ID: 40231062005** Collected: 08/03/21 06:50 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2040	ug/L	1250	432	50		08/05/21 18:48	67-64-1	
Benzene	<14.8	ug/L	50.0	14.8	50		08/05/21 18:48	71-43-2	
2-Butanone (MEK)	683J	ug/L	1250	326	50		08/05/21 18:48	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		08/05/21 18:48	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		08/05/21 18:48	108-90-7	
Chloroethane	113J	ug/L	250	69.0	50		08/05/21 18:48	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		08/05/21 18:48	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		08/05/21 18:48	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		08/05/21 18:48	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		08/05/21 18:48	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		08/05/21 18:48	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		08/05/21 18:48	75-71-8	
1,1-Dichloroethane	<14.8	ug/L	50.0	14.8	50		08/05/21 18:48	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		08/05/21 18:48	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		08/05/21 18:48	75-35-4	
cis-1,2-Dichloroethene	68.9	ug/L	50.0	23.6	50		08/05/21 18:48	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		08/05/21 18:48	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		08/05/21 18:48	78-87-5	
Ethylbenzene	491	ug/L	50.0	16.3	50		08/05/21 18:48	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		08/05/21 18:48	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		08/05/21 18:48	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		08/05/21 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	727J	ug/L	1250	298	50		08/05/21 18:48	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		08/05/21 18:48	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		08/05/21 18:48	91-20-3	
2-Propanol	4140J	ug/L	5000	493	50		08/05/21 18:48	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		08/05/21 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		08/05/21 18:48	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		08/05/21 18:48	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		08/05/21 18:48	127-18-4	
Toluene	8820	ug/L	50.0	14.4	50		08/05/21 18:48	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		08/05/21 18:48	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		08/05/21 18:48	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		08/05/21 18:48	79-00-5	
Trichloroethene	23.9J	ug/L	50.0	16.0	50		08/05/21 18:48	79-01-6	
1,2,4-Trimethylbenzene	51.8	ug/L	50.0	22.4	50		08/05/21 18:48	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		08/05/21 18:48	108-67-8	
Vinyl chloride	26.6J	ug/L	50.0	8.7	50		08/05/21 18:48	75-01-4	
Xylene (Total)	2310	ug/L	150	52.4	50		08/05/21 18:48	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		50		08/05/21 18:48	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		50		08/05/21 18:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		50		08/05/21 18:48	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VOC TESTING

Pace Project No.: 40231062

Sample: TRIP BLANK **Lab ID: 40231062006** Collected: 08/03/21 00:00 Received: 08/04/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		08/05/21 13:13	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		08/05/21 13:13	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		08/05/21 13:13	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		08/05/21 13:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		08/05/21 13:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		08/05/21 13:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		08/05/21 13:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		08/05/21 13:13	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		08/05/21 13:13	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		08/05/21 13:13	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		08/05/21 13:13	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		08/05/21 13:13	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		08/05/21 13:13	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		08/05/21 13:13	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		08/05/21 13:13	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/05/21 13:13	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/05/21 13:13	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		08/05/21 13:13	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		08/05/21 13:13	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/05/21 13:13	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		08/05/21 13:13	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		08/05/21 13:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		08/05/21 13:13	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		08/05/21 13:13	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/05/21 13:13	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		08/05/21 13:13	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		08/05/21 13:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		08/05/21 13:13	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		08/05/21 13:13	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/05/21 13:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/05/21 13:13	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/05/21 13:13	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		08/05/21 13:13	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		08/05/21 13:13	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/05/21 13:13	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		08/05/21 13:13	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		08/05/21 13:13	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/05/21 13:13	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		08/05/21 13:13	1330-20-7	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		08/05/21 13:13	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		08/05/21 13:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		08/05/21 13:13	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC TESTING

Pace Project No.: 40231062

QC Batch: 392419

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40231062001

METHOD BLANK: 2263920

Matrix: Water

Associated Lab Samples: 40231062001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	08/09/21 07:59	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	08/09/21 07:59	
Acetone	ug/L	<8.6	25.0	08/09/21 07:59	
Chloromethane	ug/L	<1.6	5.0	08/09/21 07:59	
Methylene Chloride	ug/L	<0.32	5.0	08/09/21 07:59	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	08/09/21 07:59	
4-Bromofluorobenzene (S)	%	114	70-130	08/09/21 07:59	
Toluene-d8 (S)	%	104	70-130	08/09/21 07:59	

LABORATORY CONTROL SAMPLE: 2263921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	31.3	63	27-148	
Methylene Chloride	ug/L	50	50.7	101	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40231062

QC Batch: 392217 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40231062002, 40231062003, 40231062004, 40231062005, 40231062006

METHOD BLANK: 2262607 Matrix: Water
Associated Lab Samples: 40231062002, 40231062003, 40231062004, 40231062005, 40231062006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	08/05/21 11:55	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	08/05/21 11:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	08/05/21 11:55	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	08/05/21 11:55	
1,1-Dichloroethane	ug/L	<0.30	1.0	08/05/21 11:55	
1,1-Dichloroethene	ug/L	<0.58	1.0	08/05/21 11:55	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/05/21 11:55	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	08/05/21 11:55	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	08/05/21 11:55	
1,2-Dichloroethane	ug/L	<0.29	1.0	08/05/21 11:55	
1,2-Dichloropropane	ug/L	<0.45	1.0	08/05/21 11:55	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	08/05/21 11:55	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	08/05/21 11:55	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	08/05/21 11:55	
2-Butanone (MEK)	ug/L	<6.5	25.0	08/05/21 11:55	
2-Propanol	ug/L	<9.9	100	08/05/21 11:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	08/05/21 11:55	
Acetone	ug/L	<8.6	25.0	08/05/21 11:55	
Benzene	ug/L	<0.30	1.0	08/05/21 11:55	
Carbon tetrachloride	ug/L	<0.37	1.0	08/05/21 11:55	
Chlorobenzene	ug/L	<0.86	1.0	08/05/21 11:55	
Chloroethane	ug/L	<1.4	5.0	08/05/21 11:55	
Chloroform	ug/L	<1.2	5.0	08/05/21 11:55	
Chloromethane	ug/L	<1.6	5.0	08/05/21 11:55	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/05/21 11:55	
Dichlorodifluoromethane	ug/L	<0.46	5.0	08/05/21 11:55	
Ethylbenzene	ug/L	<0.33	1.0	08/05/21 11:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	08/05/21 11:55	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	08/05/21 11:55	
Methylene Chloride	ug/L	<0.32	5.0	08/05/21 11:55	
n-Hexane	ug/L	<1.5	5.0	08/05/21 11:55	
Naphthalene	ug/L	<1.1	5.0	08/05/21 11:55	
Styrene	ug/L	<0.36	1.0	08/05/21 11:55	
Tetrachloroethane	ug/L	<0.41	1.0	08/05/21 11:55	
Toluene	ug/L	<0.29	1.0	08/05/21 11:55	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/05/21 11:55	
Trichloroethene	ug/L	<0.32	1.0	08/05/21 11:55	
Vinyl chloride	ug/L	<0.17	1.0	08/05/21 11:55	
Xylene (Total)	ug/L	<1.0	3.0	08/05/21 11:55	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	08/05/21 11:55	

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QUALITY CONTROL DATA

Project: VOC TESTING
Pace Project No.: 40231062

METHOD BLANK: 2262607 Matrix: Water
Associated Lab Samples: 40231062002, 40231062003, 40231062004, 40231062005, 40231062006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	109	70-130	08/05/21 11:55	
Toluene-d8 (S)	%	104	70-130	08/05/21 11:55	

LABORATORY CONTROL SAMPLE: 2262608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.6	111	66-130	
1,1,2-Trichloroethane	ug/L	50	52.1	104	70-130	
1,1-Dichloroethane	ug/L	50	61.3	123	68-132	
1,1-Dichloroethene	ug/L	50	54.5	109	85-126	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	58.9	118	70-130	
1,2-Dichloropropane	ug/L	50	57.2	114	78-125	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	55.3	111	70-132	
Carbon tetrachloride	ug/L	50	47.8	96	70-130	
Chlorobenzene	ug/L	50	53.7	107	70-130	
Chloroethane	ug/L	50	53.4	107	73-137	
Chloroform	ug/L	50	52.5	105	80-122	
Chloromethane	ug/L	50	48.6	97	27-148	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
Dichlorodifluoromethane	ug/L	50	35.1	70	22-151	
Ethylbenzene	ug/L	50	57.0	114	80-123	
Isopropylbenzene (Cumene)	ug/L	50	57.5	115	70-130	
Methyl-tert-butyl ether	ug/L	50	53.1	106	66-130	
Methylene Chloride	ug/L	50	53.8	108	70-130	
Styrene	ug/L	50	58.1	116	70-130	
Tetrachloroethene	ug/L	50	47.2	94	70-130	
Toluene	ug/L	50	54.1	108	80-121	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
Trichloroethene	ug/L	50	54.2	108	70-130	
Vinyl chloride	ug/L	50	58.5	117	63-142	
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VOC TESTING

Pace Project No.: 40231062

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2262609		2262610		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40230877002 Result	MS Spike Conc.	MSD Spike Conc.									
1,1,1-Trichloroethane	ug/L	<1.0	50	50	50.2	53.0	100	106	70-130	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	56.1	59.8	112	120	66-130	6	20		
1,1,2-Trichloroethane	ug/L	<5.0	50	50	52.9	53.5	106	107	70-130	1	20		
1,1-Dichloroethane	ug/L	<1.0	50	50	59.7	61.8	119	124	68-132	3	20		
1,1-Dichloroethene	ug/L	<1.0	50	50	52.8	54.8	106	110	76-132	4	20		
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	51.3	52.0	103	104	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	49.7	52.0	99	104	70-130	4	20		
1,2-Dichloroethane	ug/L	<1.0	50	50	57.9	61.7	116	123	70-130	6	20		
1,2-Dichloropropane	ug/L	<1.0	50	50	58.1	58.3	116	117	77-125	0	20		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	51.0	52.7	102	105	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<1.0	50	50	51.0	51.7	102	103	70-130	1	20		
Benzene	ug/L	<1.0	50	50	53.6	56.5	107	113	70-132	5	20		
Carbon tetrachloride	ug/L	<1.0	50	50	46.6	50.1	93	100	70-132	7	20		
Chlorobenzene	ug/L	<1.0	50	50	54.1	55.9	108	112	70-130	3	20		
Chloroethane	ug/L	<5.0	50	50	53.3	56.2	107	112	70-137	5	20		
Chloroform	ug/L	<5.0	50	50	52.0	53.8	104	108	80-122	3	20		
Chloromethane	ug/L	<5.0	50	50	48.5	50.3	97	101	17-149	4	20		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	50.6	51.6	101	103	70-130	2	20		
Dichlorodifluoromethane	ug/L	<5.0	50	50	32.2	34.4	64	69	22-158	7	20		
Ethylbenzene	ug/L	<1.0	50	50	55.7	58.9	111	118	80-123	6	20		
Isopropylbenzene (Cumene)	ug/L	<5.0	50	50	57.1	60.1	114	120	70-130	5	20		
Methyl-tert-butyl ether	ug/L	<5.0	50	50	51.8	55.6	104	111	66-130	7	20		
Methylene Chloride	ug/L	<5.0	50	50	54.0	57.9	108	116	70-130	7	20		
Styrene	ug/L	<1.0	50	50	56.5	58.8	113	118	70-130	4	20		
Tetrachloroethene	ug/L	<1.0	50	50	48.0	48.8	96	98	70-130	2	20		
Toluene	ug/L	<1.0	50	50	54.0	57.1	108	114	80-121	6	20		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	51.8	53.9	104	108	70-134	4	20		
Trichloroethene	ug/L	<1.0	50	50	51.3	55.8	103	112	70-130	8	20		
Vinyl chloride	ug/L	<1.0	50	50	57.8	60.5	116	121	61-143	5	20		
Xylene (Total)	ug/L	<3.0	150	150	164	169	109	113	70-130	3	20		
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130				
4-Bromofluorobenzene (S)	%						112	112	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: VOC TESTING

Pace Project No.: 40231062

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VOC TESTING

Pace Project No.: 40231062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40231062001	RESERVOIR	EPA 8260	392419		
40231062002	PRODUCTION	EPA 8260	392217		
40231062003	RW6	EPA 8260	392217		
40231062004	RW11	EPA 8260	392217		
40231062005	RW13	EPA 8260	392217		
40231062006	TRIP BLANK	EPA 8260	392217		

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(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436

40231062



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

Y/N	Pick Letter	Analyses Requested
N	B	8260 short
N	B	8260 Full

REGULATORY PROGRAM:
 FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Company Name: WRR Environmental Services
 Branch/Location: 5200 Ryder Rd
 Project Contact: Eric Gunderson
 Phone: 715-834-9624
 Project Number:
 Project Name:
 Project State: WI
 X Sampled By (Print): Jeremy Ottum
 X Sampled By (Sign): [Signature]
 PO #:
 Regulatory Program:

Quote #:
 Mail To Contact: Eric Gunderson
 Mail To Company: WRR Environmental Services
 Mail To Address: 5200 Ryder Rd
East Claire, WI 54701
 Invoice To Contact: Heather Kenally
 Invoice To Company: WRR
 Invoice To Address: same as above
 Invoice To Phone: 715-834-9624
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

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			Y/N	Pick Letter	Analyses Requested
		DATE	TIME	MATRIX			
001	Reservoir	8-3-21	6:40	WL	X		
002	Production	8-3-21	6:30	WL		X	
003	RWG	8-3-21	6:45	WL		X	
004	RW11	8-3-21	6:35	WL		X	
005	RW13	8-3-21	6:50	WL		X	
006	Trip Blank ①						

① In shipment Lab added to Cox 8/4/21

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <u>[Signature]</u> Date/Time: <u>8-3-21 7:00 AM</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40231062</u> Receipt Temp = <u>3</u> °C Sample Receipt pH <u>OK / Adjusted</u> Cooler Custody Seal Present <u>Not Present</u> Intact / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: <u>[Signature]</u> Date/Time: <u>8/4/21 0915</u>	Received By: <u>Susan Kully</u> Date/Time: <u>8/4/21 0915</u>	
Email #1: <u>gundoreg@wrr.com</u>	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Email #2: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Telephone: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

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

Sample Preservation Receipt Form

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

Client Name: WRR

Project # 40231062

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																																				2.5 / 5 / 10
002																																				2.5 / 5 / 10
003																																				2.5 / 5 / 10
004																																				2.5 / 5 / 10
005																																				2.5 / 5 / 10
006																																				2.5 / 5 / 10
007																																				2.5 / 5 / 10
008																																				2.5 / 5 / 10
009																																				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	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



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)

Client Name: WRR ENV Project #: _____

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

Tracking #: SP003359 03 2162109034

WO#: **40231062**

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 - 105 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 3.5 / Corr: 3

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

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

Person examining contents:
Date: 8/4/21 / Initials: SKW
Labeled By Initials: AW

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+CC</u>	<u>8/4/21 SKW</u>
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Proj # + Name, Pg #</u>	<u>8/4/21 SKW</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>In shipment Lab added to COC.</u>	<u>8/4/21 SKW</u>
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>467</u>		

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

September 20, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: RESERVOIR 8260
Pace Project No.: 40233293

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RESERVOIR 8260

Pace Project No.: 40233293

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

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SAMPLE SUMMARY

Project: RESERVOIR 8260

Pace Project No.: 40233293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40233293001	RESERVOIR	Water	09/14/21 06:50	09/15/21 09:15
40233293002	PRODUCTION	Water	09/14/21 06:30	09/15/21 09:15
40233293003	RW6	Water	09/14/21 06:55	09/15/21 09:15
40233293004	RW11	Water	09/14/21 06:45	09/15/21 09:15
40233293005	RW12	Water	09/14/21 06:40	09/15/21 09:15
40233293006	RW13	Water	09/14/21 07:00	09/15/21 09:15
40233293007	RW10	Water	09/14/21 06:35	09/15/21 09:15
40233293008	TRIP BLANK	Water	09/14/21 00:00	09/15/21 09:15

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SAMPLE ANALYTE COUNT

Project: RESERVOIR 8260

Pace Project No.: 40233293

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40233293001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40233293002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40233293003	RW6	EPA 8260	LAP	42	PASI-G
40233293004	RW11	EPA 8260	LAP	42	PASI-G
40233293005	RW12	EPA 8260	LAP	42	PASI-G
40233293006	RW13	EPA 8260	LAP	42	PASI-G
40233293007	RW10	EPA 8260	LAP	42	PASI-G
40233293008	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RESERVOIR **Lab ID: 40233293001** Collected: 09/14/21 06:50 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		09/16/21 17:04	67-64-1	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		09/16/21 17:04	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/16/21 17:04	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/16/21 17:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		09/16/21 17:04	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/16/21 17:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		09/16/21 17:04	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		09/16/21 17:04	2037-26-5	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: **PRODUCTION** Lab ID: **40233293002** Collected: 09/14/21 06:30 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Acetone	<8.6	ug/L	25.0	8.6	1		09/17/21 22:20	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		09/17/21 22:20	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		09/17/21 22:20	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/17/21 22:20	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/17/21 22:20	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/17/21 22:20	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/17/21 22:20	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/17/21 22:20	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/17/21 22:20	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/17/21 22:20	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/17/21 22:20	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/17/21 22:20	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/17/21 22:20	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/17/21 22:20	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/17/21 22:20	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/17/21 22:20	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/17/21 22:20	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/17/21 22:20	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/17/21 22:20	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		09/17/21 22:20	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/17/21 22:20	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/17/21 22:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		09/17/21 22:20	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/17/21 22:20	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/17/21 22:20	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		09/17/21 22:20	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		09/17/21 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/17/21 22:20	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/17/21 22:20	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/17/21 22:20	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/17/21 22:20	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/17/21 22:20	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/17/21 22:20	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/17/21 22:20	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/17/21 22:20	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/17/21 22:20	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/17/21 22:20	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/17/21 22:20	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/17/21 22:20	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		09/17/21 22:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		09/17/21 22:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		09/17/21 22:20	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RW6 **Lab ID: 40233293003** Collected: 09/14/21 06:55 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	3710	ug/L	2500	864	100		09/17/21 22:39	67-64-1	
Benzene	33.9J	ug/L	100	29.5	100		09/17/21 22:39	71-43-2	
2-Butanone (MEK)	<652	ug/L	2500	652	100		09/17/21 22:39	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		09/17/21 22:39	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		09/17/21 22:39	108-90-7	
Chloroethane	209J	ug/L	500	138	100		09/17/21 22:39	75-00-3	
Chloroform	<118	ug/L	500	118	100		09/17/21 22:39	67-66-3	
Chloromethane	<164	ug/L	500	164	100		09/17/21 22:39	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		09/17/21 22:39	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		09/17/21 22:39	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		09/17/21 22:39	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		09/17/21 22:39	75-71-8	
1,1-Dichloroethane	<29.6	ug/L	100	29.6	100		09/17/21 22:39	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		09/17/21 22:39	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		09/17/21 22:39	75-35-4	
cis-1,2-Dichloroethene	<47.2	ug/L	100	47.2	100		09/17/21 22:39	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		09/17/21 22:39	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		09/17/21 22:39	78-87-5	
Ethylbenzene	480	ug/L	100	32.5	100		09/17/21 22:39	100-41-4	
n-Hexane	<146	ug/L	500	146	100		09/17/21 22:39	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		09/17/21 22:39	98-82-8	
Methylene Chloride	<31.9	ug/L	500	31.9	100		09/17/21 22:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	649J	ug/L	2500	595	100		09/17/21 22:39	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		09/17/21 22:39	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		09/17/21 22:39	91-20-3	
2-Propanol	5680J	ug/L	10000	985	100		09/17/21 22:39	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		09/17/21 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		09/17/21 22:39	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		09/17/21 22:39	79-34-5	
Tetrachloroethene	<40.9	ug/L	100	40.9	100		09/17/21 22:39	127-18-4	
Toluene	12600	ug/L	100	28.8	100		09/17/21 22:39	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		09/17/21 22:39	120-82-1	
1,1,1-Trichloroethane	<30.3	ug/L	100	30.3	100		09/17/21 22:39	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		09/17/21 22:39	79-00-5	
Trichloroethene	<32.0	ug/L	100	32.0	100		09/17/21 22:39	79-01-6	
1,2,4-Trimethylbenzene	<44.9	ug/L	100	44.9	100		09/17/21 22:39	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		09/17/21 22:39	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		09/17/21 22:39	75-01-4	
Xylene (Total)	3010	ug/L	300	105	100		09/17/21 22:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		100		09/17/21 22:39	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		100		09/17/21 22:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		100		09/17/21 22:39	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RW11 **Lab ID: 40233293004** Collected: 09/14/21 06:45 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<346	ug/L	1000	346	40		09/17/21 22:59	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		09/17/21 22:59	71-43-2	
2-Butanone (MEK)	<261	ug/L	1000	261	40		09/17/21 22:59	78-93-3	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		09/17/21 22:59	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		09/17/21 22:59	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		09/17/21 22:59	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		09/17/21 22:59	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		09/17/21 22:59	74-87-3	
1,2-Dichlorobenzene	16.4J	ug/L	40.0	13.0	40		09/17/21 22:59	95-50-1	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		09/17/21 22:59	541-73-1	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		09/17/21 22:59	106-46-7	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		09/17/21 22:59	75-71-8	
1,1-Dichloroethane	394	ug/L	40.0	11.8	40		09/17/21 22:59	75-34-3	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		09/17/21 22:59	107-06-2	
1,1-Dichloroethene	<23.3	ug/L	40.0	23.3	40		09/17/21 22:59	75-35-4	
cis-1,2-Dichloroethene	1940	ug/L	40.0	18.9	40		09/17/21 22:59	156-59-2	
trans-1,2-Dichloroethene	<21.1	ug/L	40.0	21.1	40		09/17/21 22:59	156-60-5	
1,2-Dichloropropane	<17.9	ug/L	40.0	17.9	40		09/17/21 22:59	78-87-5	
Ethylbenzene	1890	ug/L	40.0	13.0	40		09/17/21 22:59	100-41-4	
n-Hexane	<58.5	ug/L	200	58.5	40		09/17/21 22:59	110-54-3	
Isopropylbenzene (Cumene)	41.3J	ug/L	200	40.0	40		09/17/21 22:59	98-82-8	
Methylene Chloride	<12.8	ug/L	200	12.8	40		09/17/21 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		09/17/21 22:59	108-10-1	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		09/17/21 22:59	1634-04-4	
Naphthalene	<45.2	ug/L	200	45.2	40		09/17/21 22:59	91-20-3	
2-Propanol	<394	ug/L	4000	394	40		09/17/21 22:59	67-63-0	
Styrene	<14.3	ug/L	40.0	14.3	40		09/17/21 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		09/17/21 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		09/17/21 22:59	79-34-5	
Tetrachloroethene	<16.3	ug/L	40.0	16.3	40		09/17/21 22:59	127-18-4	
Toluene	9050	ug/L	40.0	11.5	40		09/17/21 22:59	108-88-3	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		09/17/21 22:59	120-82-1	
1,1,1-Trichloroethane	248	ug/L	40.0	12.1	40		09/17/21 22:59	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/L	200	13.8	40		09/17/21 22:59	79-00-5	
Trichloroethene	35.9J	ug/L	40.0	12.8	40		09/17/21 22:59	79-01-6	
1,2,4-Trimethylbenzene	298	ug/L	40.0	17.9	40		09/17/21 22:59	95-63-6	
1,3,5-Trimethylbenzene	74.3	ug/L	40.0	14.3	40		09/17/21 22:59	108-67-8	
Vinyl chloride	223	ug/L	40.0	7.0	40		09/17/21 22:59	75-01-4	
Xylene (Total)	7580	ug/L	120	41.9	40		09/17/21 22:59	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		40		09/17/21 22:59	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		40		09/17/21 22:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		40		09/17/21 22:59	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RW12 **Lab ID: 40233293005** Collected: 09/14/21 06:40 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	16700	ug/L	12500	4320	500		09/17/21 23:18	67-64-1	
Benzene	<148	ug/L	500	148	500		09/17/21 23:18	71-43-2	
2-Butanone (MEK)	5270J	ug/L	12500	3260	500		09/17/21 23:18	78-93-3	
Carbon tetrachloride	<185	ug/L	500	185	500		09/17/21 23:18	56-23-5	
Chlorobenzene	<428	ug/L	500	428	500		09/17/21 23:18	108-90-7	
Chloroethane	<690	ug/L	2500	690	500		09/17/21 23:18	75-00-3	
Chloroform	<591	ug/L	2500	591	500		09/17/21 23:18	67-66-3	
Chloromethane	<818	ug/L	2500	818	500		09/17/21 23:18	74-87-3	
1,2-Dichlorobenzene	<163	ug/L	500	163	500		09/17/21 23:18	95-50-1	
1,3-Dichlorobenzene	<176	ug/L	500	176	500		09/17/21 23:18	541-73-1	
1,4-Dichlorobenzene	<446	ug/L	500	446	500		09/17/21 23:18	106-46-7	
Dichlorodifluoromethane	<228	ug/L	2500	228	500		09/17/21 23:18	75-71-8	
1,1-Dichloroethane	502	ug/L	500	148	500		09/17/21 23:18	75-34-3	
1,2-Dichloroethane	<146	ug/L	500	146	500		09/17/21 23:18	107-06-2	
1,1-Dichloroethene	<291	ug/L	500	291	500		09/17/21 23:18	75-35-4	
cis-1,2-Dichloroethene	3000	ug/L	500	236	500		09/17/21 23:18	156-59-2	
trans-1,2-Dichloroethene	<264	ug/L	500	264	500		09/17/21 23:18	156-60-5	
1,2-Dichloropropane	<224	ug/L	500	224	500		09/17/21 23:18	78-87-5	
Ethylbenzene	2290	ug/L	500	163	500		09/17/21 23:18	100-41-4	
n-Hexane	<731	ug/L	2500	731	500		09/17/21 23:18	110-54-3	
Isopropylbenzene (Cumene)	<500	ug/L	2500	500	500		09/17/21 23:18	98-82-8	
Methylene Chloride	1090J	ug/L	2500	160	500		09/17/21 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	2990J	ug/L	12500	2980	500		09/17/21 23:18	108-10-1	
Methyl-tert-butyl ether	<565	ug/L	2500	565	500		09/17/21 23:18	1634-04-4	
Naphthalene	<565	ug/L	2500	565	500		09/17/21 23:18	91-20-3	
2-Propanol	39200J	ug/L	50000	4930	500		09/17/21 23:18	67-63-0	
Styrene	<178	ug/L	500	178	500		09/17/21 23:18	100-42-5	
1,1,1,2-Tetrachloroethane	<178	ug/L	500	178	500		09/17/21 23:18	630-20-6	
1,1,1,2,2-Tetrachloroethane	<189	ug/L	500	189	500		09/17/21 23:18	79-34-5	
Tetrachloroethene	<204	ug/L	500	204	500		09/17/21 23:18	127-18-4	
Toluene	45300	ug/L	500	144	500		09/17/21 23:18	108-88-3	
1,2,4-Trichlorobenzene	<475	ug/L	2500	475	500		09/17/21 23:18	120-82-1	
1,1,1-Trichloroethane	1900	ug/L	500	151	500		09/17/21 23:18	71-55-6	
1,1,2-Trichloroethane	<172	ug/L	2500	172	500		09/17/21 23:18	79-00-5	
Trichloroethene	1220	ug/L	500	160	500		09/17/21 23:18	79-01-6	
1,2,4-Trimethylbenzene	<224	ug/L	500	224	500		09/17/21 23:18	95-63-6	
1,3,5-Trimethylbenzene	<179	ug/L	500	179	500		09/17/21 23:18	108-67-8	
Vinyl chloride	306J	ug/L	500	87.2	500		09/17/21 23:18	75-01-4	
Xylene (Total)	8570	ug/L	1500	524	500		09/17/21 23:18	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		500		09/17/21 23:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		500		09/17/21 23:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		500		09/17/21 23:18	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RW13 **Lab ID: 40233293006** Collected: 09/14/21 07:00 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	3310	ug/L	1250	432	50		09/17/21 23:37	67-64-1	
Benzene	<14.8	ug/L	50.0	14.8	50		09/17/21 23:37	71-43-2	
2-Butanone (MEK)	809J	ug/L	1250	326	50		09/17/21 23:37	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		09/17/21 23:37	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		09/17/21 23:37	108-90-7	
Chloroethane	98.7J	ug/L	250	69.0	50		09/17/21 23:37	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		09/17/21 23:37	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		09/17/21 23:37	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		09/17/21 23:37	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		09/17/21 23:37	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		09/17/21 23:37	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		09/17/21 23:37	75-71-8	
1,1-Dichloroethane	51.0	ug/L	50.0	14.8	50		09/17/21 23:37	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		09/17/21 23:37	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		09/17/21 23:37	75-35-4	
cis-1,2-Dichloroethene	98.1	ug/L	50.0	23.6	50		09/17/21 23:37	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		09/17/21 23:37	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		09/17/21 23:37	78-87-5	
Ethylbenzene	512	ug/L	50.0	16.3	50		09/17/21 23:37	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		09/17/21 23:37	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		09/17/21 23:37	98-82-8	
Methylene Chloride	19.1J	ug/L	250	16.0	50		09/17/21 23:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	534J	ug/L	1250	298	50		09/17/21 23:37	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		09/17/21 23:37	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		09/17/21 23:37	91-20-3	
2-Propanol	5870	ug/L	5000	493	50		09/17/21 23:37	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		09/17/21 23:37	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		09/17/21 23:37	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		09/17/21 23:37	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		09/17/21 23:37	127-18-4	
Toluene	8860	ug/L	50.0	14.4	50		09/17/21 23:37	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		09/17/21 23:37	120-82-1	
1,1,1-Trichloroethane	20.7J	ug/L	50.0	15.1	50		09/17/21 23:37	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		09/17/21 23:37	79-00-5	
Trichloroethene	19.2J	ug/L	50.0	16.0	50		09/17/21 23:37	79-01-6	
1,2,4-Trimethylbenzene	45.2J	ug/L	50.0	22.4	50		09/17/21 23:37	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		09/17/21 23:37	108-67-8	
Vinyl chloride	24.8J	ug/L	50.0	8.7	50		09/17/21 23:37	75-01-4	
Xylene (Total)	2330	ug/L	150	52.4	50		09/17/21 23:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	70-130		50		09/17/21 23:37	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		50		09/17/21 23:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		50		09/17/21 23:37	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260

Pace Project No.: 40233293

Sample: RW10 **Lab ID: 40233293007** Collected: 09/14/21 06:35 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	40500	ug/L	2500	864	100		09/17/21 23:57	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		09/17/21 23:57	71-43-2	
2-Butanone (MEK)	53600	ug/L	2500	652	100		09/17/21 23:57	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		09/17/21 23:57	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		09/17/21 23:57	108-90-7	
Chloroethane	<138	ug/L	500	138	100		09/17/21 23:57	75-00-3	
Chloroform	<118	ug/L	500	118	100		09/17/21 23:57	67-66-3	
Chloromethane	<164	ug/L	500	164	100		09/17/21 23:57	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		09/17/21 23:57	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		09/17/21 23:57	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		09/17/21 23:57	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		09/17/21 23:57	75-71-8	
1,1-Dichloroethane	41.4J	ug/L	100	29.6	100		09/17/21 23:57	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		09/17/21 23:57	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		09/17/21 23:57	75-35-4	
cis-1,2-Dichloroethene	374	ug/L	100	47.2	100		09/17/21 23:57	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		09/17/21 23:57	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		09/17/21 23:57	78-87-5	
Ethylbenzene	1400	ug/L	100	32.5	100		09/17/21 23:57	100-41-4	
n-Hexane	<146	ug/L	500	146	100		09/17/21 23:57	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		09/17/21 23:57	98-82-8	
Methylene Chloride	138J	ug/L	500	31.9	100		09/17/21 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<595	ug/L	2500	595	100		09/17/21 23:57	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		09/17/21 23:57	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		09/17/21 23:57	91-20-3	
2-Propanol	21500	ug/L	10000	985	100		09/17/21 23:57	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		09/17/21 23:57	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		09/17/21 23:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		09/17/21 23:57	79-34-5	
Tetrachloroethene	169	ug/L	100	40.9	100		09/17/21 23:57	127-18-4	
Toluene	16800	ug/L	100	28.8	100		09/17/21 23:57	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		09/17/21 23:57	120-82-1	
1,1,1-Trichloroethane	870	ug/L	100	30.3	100		09/17/21 23:57	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		09/17/21 23:57	79-00-5	
Trichloroethene	774	ug/L	100	32.0	100		09/17/21 23:57	79-01-6	
1,2,4-Trimethylbenzene	109	ug/L	100	44.9	100		09/17/21 23:57	95-63-6	
1,3,5-Trimethylbenzene	49.5J	ug/L	100	35.7	100		09/17/21 23:57	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		09/17/21 23:57	75-01-4	
Xylene (Total)	6370	ug/L	300	105	100		09/17/21 23:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		100		09/17/21 23:57	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		100		09/17/21 23:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		100		09/17/21 23:57	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR 8260
Pace Project No.: 40233293

Sample: TRIP BLANK **Lab ID: 40233293008** Collected: 09/14/21 00:00 Received: 09/15/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		09/17/21 19:26	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		09/17/21 19:26	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		09/17/21 19:26	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/17/21 19:26	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/17/21 19:26	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/17/21 19:26	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/17/21 19:26	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/17/21 19:26	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/17/21 19:26	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/17/21 19:26	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/17/21 19:26	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/17/21 19:26	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/17/21 19:26	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/17/21 19:26	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/17/21 19:26	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/17/21 19:26	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/17/21 19:26	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/17/21 19:26	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/17/21 19:26	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		09/17/21 19:26	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/17/21 19:26	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/17/21 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		09/17/21 19:26	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/17/21 19:26	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/17/21 19:26	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		09/17/21 19:26	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		09/17/21 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/17/21 19:26	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/17/21 19:26	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/17/21 19:26	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/17/21 19:26	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/17/21 19:26	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/17/21 19:26	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/17/21 19:26	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/17/21 19:26	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/17/21 19:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/17/21 19:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/17/21 19:26	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		09/17/21 19:26	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		09/17/21 19:26	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		09/17/21 19:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		09/17/21 19:26	2199-69-1	

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QUALITY CONTROL DATA

Project: RESERVOIR 8260
Pace Project No.: 40233293

QC Batch: 395840	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40233293001

METHOD BLANK: 2283605 Matrix: Water
Associated Lab Samples: 40233293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	09/16/21 11:11	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	09/16/21 11:11	
Acetone	ug/L	<8.6	25.0	09/16/21 11:11	
Chloromethane	ug/L	<1.6	5.0	09/16/21 11:11	
Methylene Chloride	ug/L	<0.32	5.0	09/16/21 11:11	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	09/16/21 11:11	
4-Bromofluorobenzene (S)	%	98	70-130	09/16/21 11:11	
Toluene-d8 (S)	%	100	70-130	09/16/21 11:11	

LABORATORY CONTROL SAMPLE: 2283606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	51.1	102	27-148	
Methylene Chloride	ug/L	50	54.1	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2283771 2283772

Parameter	Units	40233294003		2283771		2283772		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloromethane	ug/L	<1.6	50	50	50	45.4	47.3	91	95	95	17-149	4	20	
Methylene Chloride	ug/L	<0.32	50	50	50	50.9	52.5	102	105	105	70-130	3	20	
1,2-Dichlorobenzene-d4 (S)	%							99	97	97	70-130			
4-Bromofluorobenzene (S)	%							98	97	97	70-130			
Toluene-d8 (S)	%							100	100	100	70-130			

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QUALITY CONTROL DATA

Project: RESERVOIR 8260
Pace Project No.: 40233293

METHOD BLANK: 2283972 Matrix: Water
Associated Lab Samples: 40233293002, 40233293003, 40233293004, 40233293005, 40233293006, 40233293007, 40233293008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	97	70-130	09/17/21 15:35	
Toluene-d8 (S)	%	99	70-130	09/17/21 15:35	

LABORATORY CONTROL SAMPLE: 2283973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.3	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	66-130	
1,1,2-Trichloroethane	ug/L	50	54.1	108	70-130	
1,1-Dichloroethane	ug/L	50	62.1	124	68-132	
1,1-Dichloroethene	ug/L	50	57.6	115	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	56.3	113	70-130	
1,2-Dichloropropane	ug/L	50	60.6	121	78-125	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	
Benzene	ug/L	50	58.1	116	70-132	
Carbon tetrachloride	ug/L	50	56.4	113	70-130	
Chlorobenzene	ug/L	50	54.4	109	70-130	
Chloroethane	ug/L	50	63.4	127	73-137	
Chloroform	ug/L	50	56.9	114	80-122	
Chloromethane	ug/L	50	56.3	113	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.6	111	70-130	
Dichlorodifluoromethane	ug/L	50	49.1	98	22-151	
Ethylbenzene	ug/L	50	55.0	110	80-123	
Isopropylbenzene (Cumene)	ug/L	50	57.9	116	70-130	
Methyl-tert-butyl ether	ug/L	50	48.9	98	66-130	
Methylene Chloride	ug/L	50	53.9	108	70-130	
Styrene	ug/L	50	56.3	113	70-130	
Tetrachloroethene	ug/L	50	55.4	111	70-130	
Toluene	ug/L	50	55.3	111	80-121	
trans-1,2-Dichloroethene	ug/L	50	56.9	114	70-130	
Trichloroethene	ug/L	50	58.1	116	70-130	
Vinyl chloride	ug/L	50	67.4	135	63-142	
Xylene (Total)	ug/L	150	164	109	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALIFIERS

Project: RESERVOIR 8260

Pace Project No.: 40233293

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.

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RESERVOIR 8260

Pace Project No.: 40233293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40233293001	RESERVOIR	EPA 8260	395840		
40233293002	PRODUCTION	EPA 8260	395905		
40233293003	RW6	EPA 8260	395905		
40233293004	RW11	EPA 8260	395905		
40233293005	RW12	EPA 8260	395905		
40233293006	RW13	EPA 8260	395905		
40233293007	RW10	EPA 8260	395905		
40233293008	TRIP BLANK	EPA 8260	395905		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: WRR Environmental, Project # 40233293

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC
001																3																2.5 / 5 / 10
002																3																2.5 / 5 / 10
003																3																2.5 / 5 / 10
004																3																2.5 / 5 / 10
005																3																2.5 / 5 / 10
006																3																2.5 / 5 / 10
007																3																2.5 / 5 / 10
008																2																2.5 / 5 / 10
009																																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

9/15/21
WRR

Exceptions to preservation check (VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____) Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: WRR Environmental

WO# : 40233293

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



Tracking #: 003359 03 25721 90841

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 - 103 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.6 / Corr: 2

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 9/15/21 / Initials: MP
 Labeled By Initials: UC

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg#, proj#, proj name 9/15/21 MP</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WA</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>9/15/21 MP</u>
Pace Trip Blank Lot # (if purchased): <u>467</u>		

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

November 03, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: 8260
Pace Project No.: 40235837

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 8260

Pace Project No.: 40235837

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

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SAMPLE SUMMARY

Project: 8260
Pace Project No.: 40235837

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40235837001	RESERVOIR	Water	10/26/21 07:55	10/27/21 10:15
40235837002	PRODUCTION	Water	10/26/21 06:35	10/27/21 10:15
40235837003	RW6	Water	10/26/21 07:00	10/27/21 10:15
40235837004	RW10	Water	10/26/21 06:45	10/27/21 10:15
40235837005	RW11	Water	10/26/21 06:50	10/27/21 10:15
40235837006	RW12	Water	10/26/21 06:40	10/27/21 10:15
40235837007	RW13	Water	10/26/21 07:05	10/27/21 10:15
40235837008	TRIP BLANK	Water	10/26/21 00:00	10/27/21 10:15

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SAMPLE ANALYTE COUNT

Project: 8260
Pace Project No.: 40235837

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40235837001	RESERVOIR	EPA 8260	LAP	8	PASI-G
40235837002	PRODUCTION	EPA 8260	JAV	42	PASI-G
40235837003	RW6	EPA 8260	JAV	42	PASI-G
40235837004	RW10	EPA 8260	JAV	42	PASI-G
40235837005	RW11	EPA 8260	JAV	42	PASI-G
40235837006	RW12	EPA 8260	JAV	42	PASI-G
40235837007	RW13	EPA 8260	JAV	42	PASI-G
40235837008	TRIP BLANK	EPA 8260	JAV	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RESERVOIR **Lab ID: 40235837001** Collected: 10/26/21 07:55 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	801	ug/L	25.0	8.6	1		11/01/21 12:04	67-64-1	
2-Butanone (MEK)	47.2	ug/L	25.0	6.5	1		11/01/21 12:04	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 12:04	74-87-3	
Methylene Chloride	0.67J	ug/L	5.0	0.32	1		11/01/21 12:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/01/21 12:04	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/01/21 12:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 12:04	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/01/21 12:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: PRODUCTION **Lab ID: 40235837002** Collected: 10/26/21 06:35 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		11/02/21 13:53	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 13:53	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/02/21 13:53	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 13:53	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 13:53	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 13:53	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 13:53	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 13:53	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 13:53	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 13:53	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 13:53	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 13:53	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 13:53	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 13:53	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 13:53	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 13:53	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 13:53	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 13:53	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 13:53	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		11/02/21 13:53	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 13:53	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/02/21 13:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/02/21 13:53	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 13:53	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 13:53	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		11/02/21 13:53	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 13:53	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 13:53	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 13:53	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 13:53	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 13:53	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 13:53	79-00-5	
Trichloroethene	0.40J	ug/L	1.0	0.32	1		11/02/21 13:53	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 13:53	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 13:53	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 13:53	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 13:53	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		11/02/21 13:53	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		11/02/21 13:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/02/21 13:53	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RW6 **Lab ID: 40235837003** Collected: 10/26/21 07:00 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	3510	ug/L	2500	864	100		11/02/21 19:08	67-64-1	
Benzene	38.1J	ug/L	100	29.5	100		11/02/21 19:08	71-43-2	
2-Butanone (MEK)	<652	ug/L	2500	652	100		11/02/21 19:08	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		11/02/21 19:08	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		11/02/21 19:08	108-90-7	
Chloroethane	179J	ug/L	500	138	100		11/02/21 19:08	75-00-3	
Chloroform	<118	ug/L	500	118	100		11/02/21 19:08	67-66-3	
Chloromethane	<164	ug/L	500	164	100		11/02/21 19:08	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		11/02/21 19:08	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		11/02/21 19:08	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		11/02/21 19:08	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		11/02/21 19:08	75-71-8	
1,1-Dichloroethane	<29.6	ug/L	100	29.6	100		11/02/21 19:08	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		11/02/21 19:08	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		11/02/21 19:08	75-35-4	
cis-1,2-Dichloroethene	<47.2	ug/L	100	47.2	100		11/02/21 19:08	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		11/02/21 19:08	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		11/02/21 19:08	78-87-5	
Ethylbenzene	501	ug/L	100	32.5	100		11/02/21 19:08	100-41-4	
n-Hexane	<146	ug/L	500	146	100		11/02/21 19:08	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		11/02/21 19:08	98-82-8	
Methylene Chloride	<31.9	ug/L	500	31.9	100		11/02/21 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	<595	ug/L	2500	595	100		11/02/21 19:08	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		11/02/21 19:08	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		11/02/21 19:08	91-20-3	
2-Propanol	4240J	ug/L	10000	985	100		11/02/21 19:08	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		11/02/21 19:08	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		11/02/21 19:08	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		11/02/21 19:08	79-34-5	
Tetrachloroethene	<40.9	ug/L	100	40.9	100		11/02/21 19:08	127-18-4	
Toluene	13400	ug/L	100	28.8	100		11/02/21 19:08	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/02/21 19:08	120-82-1	
1,1,1-Trichloroethane	<30.3	ug/L	100	30.3	100		11/02/21 19:08	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		11/02/21 19:08	79-00-5	
Trichloroethene	<32.0	ug/L	100	32.0	100		11/02/21 19:08	79-01-6	
1,2,4-Trimethylbenzene	<44.9	ug/L	100	44.9	100		11/02/21 19:08	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		11/02/21 19:08	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		11/02/21 19:08	75-01-4	
Xylene (Total)	3400	ug/L	300	105	100		11/02/21 19:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		100		11/02/21 19:08	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		100		11/02/21 19:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		100		11/02/21 19:08	2199-69-1	

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RW10 **Lab ID: 40235837004** Collected: 10/26/21 06:45 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	22100	ug/L	2500	864	100		11/02/21 18:49	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		11/02/21 18:49	71-43-2	
2-Butanone (MEK)	31600	ug/L	2500	652	100		11/02/21 18:49	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		11/02/21 18:49	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		11/02/21 18:49	108-90-7	
Chloroethane	<138	ug/L	500	138	100		11/02/21 18:49	75-00-3	
Chloroform	<118	ug/L	500	118	100		11/02/21 18:49	67-66-3	
Chloromethane	<164	ug/L	500	164	100		11/02/21 18:49	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		11/02/21 18:49	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		11/02/21 18:49	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		11/02/21 18:49	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		11/02/21 18:49	75-71-8	
1,1-Dichloroethane	33.4J	ug/L	100	29.6	100		11/02/21 18:49	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		11/02/21 18:49	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		11/02/21 18:49	75-35-4	
cis-1,2-Dichloroethene	392	ug/L	100	47.2	100		11/02/21 18:49	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		11/02/21 18:49	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		11/02/21 18:49	78-87-5	
Ethylbenzene	1260	ug/L	100	32.5	100		11/02/21 18:49	100-41-4	
n-Hexane	<146	ug/L	500	146	100		11/02/21 18:49	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		11/02/21 18:49	98-82-8	
Methylene Chloride	137J	ug/L	500	31.9	100		11/02/21 18:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<595	ug/L	2500	595	100		11/02/21 18:49	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		11/02/21 18:49	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		11/02/21 18:49	91-20-3	
2-Propanol	7440J	ug/L	10000	985	100		11/02/21 18:49	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		11/02/21 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		11/02/21 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		11/02/21 18:49	79-34-5	
Tetrachloroethene	125	ug/L	100	40.9	100		11/02/21 18:49	127-18-4	
Toluene	15500	ug/L	100	28.8	100		11/02/21 18:49	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/02/21 18:49	120-82-1	
1,1,1-Trichloroethane	736	ug/L	100	30.3	100		11/02/21 18:49	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		11/02/21 18:49	79-00-5	
Trichloroethene	642	ug/L	100	32.0	100		11/02/21 18:49	79-01-6	
1,2,4-Trimethylbenzene	113	ug/L	100	44.9	100		11/02/21 18:49	95-63-6	
1,3,5-Trimethylbenzene	36.6J	ug/L	100	35.7	100		11/02/21 18:49	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		11/02/21 18:49	75-01-4	
Xylene (Total)	6010	ug/L	300	105	100		11/02/21 18:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		100		11/02/21 18:49	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		100		11/02/21 18:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		100		11/02/21 18:49	2199-69-1	

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RW11 **Lab ID: 40235837005** Collected: 10/26/21 06:50 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<346	ug/L	1000	346	40		11/02/21 19:47	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		11/02/21 19:47	71-43-2	
2-Butanone (MEK)	<261	ug/L	1000	261	40		11/02/21 19:47	78-93-3	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		11/02/21 19:47	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		11/02/21 19:47	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		11/02/21 19:47	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		11/02/21 19:47	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		11/02/21 19:47	74-87-3	
1,2-Dichlorobenzene	<13.0	ug/L	40.0	13.0	40		11/02/21 19:47	95-50-1	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		11/02/21 19:47	541-73-1	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		11/02/21 19:47	106-46-7	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		11/02/21 19:47	75-71-8	
1,1-Dichloroethane	299	ug/L	40.0	11.8	40		11/02/21 19:47	75-34-3	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		11/02/21 19:47	107-06-2	
1,1-Dichloroethene	<23.3	ug/L	40.0	23.3	40		11/02/21 19:47	75-35-4	
cis-1,2-Dichloroethene	1590	ug/L	40.0	18.9	40		11/02/21 19:47	156-59-2	
trans-1,2-Dichloroethene	<21.1	ug/L	40.0	21.1	40		11/02/21 19:47	156-60-5	
1,2-Dichloropropane	<17.9	ug/L	40.0	17.9	40		11/02/21 19:47	78-87-5	
Ethylbenzene	1540	ug/L	40.0	13.0	40		11/02/21 19:47	100-41-4	
n-Hexane	<58.5	ug/L	200	58.5	40		11/02/21 19:47	110-54-3	
Isopropylbenzene (Cumene)	<40.0	ug/L	200	40.0	40		11/02/21 19:47	98-82-8	
Methylene Chloride	<12.8	ug/L	200	12.8	40		11/02/21 19:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		11/02/21 19:47	108-10-1	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		11/02/21 19:47	1634-04-4	
Naphthalene	<45.2	ug/L	200	45.2	40		11/02/21 19:47	91-20-3	
2-Propanol	<394	ug/L	4000	394	40		11/02/21 19:47	67-63-0	
Styrene	<14.3	ug/L	40.0	14.3	40		11/02/21 19:47	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		11/02/21 19:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		11/02/21 19:47	79-34-5	
Tetrachloroethene	<16.3	ug/L	40.0	16.3	40		11/02/21 19:47	127-18-4	
Toluene	6670	ug/L	40.0	11.5	40		11/02/21 19:47	108-88-3	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		11/02/21 19:47	120-82-1	
1,1,1-Trichloroethane	147	ug/L	40.0	12.1	40		11/02/21 19:47	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/L	200	13.8	40		11/02/21 19:47	79-00-5	
Trichloroethene	<12.8	ug/L	40.0	12.8	40		11/02/21 19:47	79-01-6	
1,2,4-Trimethylbenzene	252	ug/L	40.0	17.9	40		11/02/21 19:47	95-63-6	
1,3,5-Trimethylbenzene	59.6	ug/L	40.0	14.3	40		11/02/21 19:47	108-67-8	
Vinyl chloride	162	ug/L	40.0	7.0	40		11/02/21 19:47	75-01-4	
Xylene (Total)	6610	ug/L	120	41.9	40		11/02/21 19:47	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		40		11/02/21 19:47	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		40		11/02/21 19:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		40		11/02/21 19:47	2199-69-1	

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RW12 **Lab ID: 40235837006** Collected: 10/26/21 06:40 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	20300	ug/L	12500	4320	500		11/02/21 18:29	67-64-1	
Benzene	<148	ug/L	500	148	500		11/02/21 18:29	71-43-2	
2-Butanone (MEK)	9330J	ug/L	12500	3260	500		11/02/21 18:29	78-93-3	
Carbon tetrachloride	<185	ug/L	500	185	500		11/02/21 18:29	56-23-5	
Chlorobenzene	<428	ug/L	500	428	500		11/02/21 18:29	108-90-7	
Chloroethane	<690	ug/L	2500	690	500		11/02/21 18:29	75-00-3	
Chloroform	<591	ug/L	2500	591	500		11/02/21 18:29	67-66-3	
Chloromethane	<818	ug/L	2500	818	500		11/02/21 18:29	74-87-3	
1,2-Dichlorobenzene	<163	ug/L	500	163	500		11/02/21 18:29	95-50-1	
1,3-Dichlorobenzene	<176	ug/L	500	176	500		11/02/21 18:29	541-73-1	
1,4-Dichlorobenzene	<446	ug/L	500	446	500		11/02/21 18:29	106-46-7	
Dichlorodifluoromethane	<228	ug/L	2500	228	500		11/02/21 18:29	75-71-8	
1,1-Dichloroethane	702	ug/L	500	148	500		11/02/21 18:29	75-34-3	
1,2-Dichloroethane	<146	ug/L	500	146	500		11/02/21 18:29	107-06-2	
1,1-Dichloroethene	<291	ug/L	500	291	500		11/02/21 18:29	75-35-4	
cis-1,2-Dichloroethene	5150	ug/L	500	236	500		11/02/21 18:29	156-59-2	
trans-1,2-Dichloroethene	<264	ug/L	500	264	500		11/02/21 18:29	156-60-5	
1,2-Dichloropropane	<224	ug/L	500	224	500		11/02/21 18:29	78-87-5	
Ethylbenzene	4130	ug/L	500	163	500		11/02/21 18:29	100-41-4	
n-Hexane	<731	ug/L	2500	731	500		11/02/21 18:29	110-54-3	
Isopropylbenzene (Cumene)	<500	ug/L	2500	500	500		11/02/21 18:29	98-82-8	
Methylene Chloride	1480J	ug/L	2500	160	500		11/02/21 18:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	4470J	ug/L	12500	2980	500		11/02/21 18:29	108-10-1	
Methyl-tert-butyl ether	<565	ug/L	2500	565	500		11/02/21 18:29	1634-04-4	
Naphthalene	<565	ug/L	2500	565	500		11/02/21 18:29	91-20-3	
2-Propanol	62100	ug/L	50000	4930	500		11/02/21 18:29	67-63-0	
Styrene	<178	ug/L	500	178	500		11/02/21 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	<178	ug/L	500	178	500		11/02/21 18:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<189	ug/L	500	189	500		11/02/21 18:29	79-34-5	
Tetrachloroethene	<204	ug/L	500	204	500		11/02/21 18:29	127-18-4	
Toluene	77000	ug/L	500	144	500		11/02/21 18:29	108-88-3	
1,2,4-Trichlorobenzene	<475	ug/L	2500	475	500		11/02/21 18:29	120-82-1	
1,1,1-Trichloroethane	3150	ug/L	500	151	500		11/02/21 18:29	71-55-6	
1,1,2-Trichloroethane	<172	ug/L	2500	172	500		11/02/21 18:29	79-00-5	
Trichloroethene	1340	ug/L	500	160	500		11/02/21 18:29	79-01-6	
1,2,4-Trimethylbenzene	<224	ug/L	500	224	500		11/02/21 18:29	95-63-6	
1,3,5-Trimethylbenzene	<179	ug/L	500	179	500		11/02/21 18:29	108-67-8	
Vinyl chloride	348J	ug/L	500	87.2	500		11/02/21 18:29	75-01-4	
Xylene (Total)	15900	ug/L	1500	524	500		11/02/21 18:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	70-130		500		11/02/21 18:29	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		500		11/02/21 18:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		500		11/02/21 18:29	2199-69-1	

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: RW13 **Lab ID: 40235837007** Collected: 10/26/21 07:05 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	3440	ug/L	1250	432	50		11/02/21 19:27	67-64-1	
Benzene	16.7J	ug/L	50.0	14.8	50		11/02/21 19:27	71-43-2	
2-Butanone (MEK)	880J	ug/L	1250	326	50		11/02/21 19:27	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		11/02/21 19:27	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		11/02/21 19:27	108-90-7	
Chloroethane	114J	ug/L	250	69.0	50		11/02/21 19:27	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		11/02/21 19:27	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		11/02/21 19:27	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		11/02/21 19:27	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		11/02/21 19:27	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		11/02/21 19:27	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		11/02/21 19:27	75-71-8	
1,1-Dichloroethane	42.2J	ug/L	50.0	14.8	50		11/02/21 19:27	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		11/02/21 19:27	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		11/02/21 19:27	75-35-4	
cis-1,2-Dichloroethene	64.5	ug/L	50.0	23.6	50		11/02/21 19:27	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		11/02/21 19:27	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		11/02/21 19:27	78-87-5	
Ethylbenzene	830	ug/L	50.0	16.3	50		11/02/21 19:27	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		11/02/21 19:27	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		11/02/21 19:27	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		11/02/21 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	601J	ug/L	1250	298	50		11/02/21 19:27	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		11/02/21 19:27	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		11/02/21 19:27	91-20-3	
2-Propanol	5410	ug/L	5000	493	50		11/02/21 19:27	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		11/02/21 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		11/02/21 19:27	630-20-6	
1,1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		11/02/21 19:27	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		11/02/21 19:27	127-18-4	
Toluene	12200	ug/L	50.0	14.4	50		11/02/21 19:27	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		11/02/21 19:27	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		11/02/21 19:27	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		11/02/21 19:27	79-00-5	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		11/02/21 19:27	79-01-6	
1,2,4-Trimethylbenzene	51.3	ug/L	50.0	22.4	50		11/02/21 19:27	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		11/02/21 19:27	108-67-8	
Vinyl chloride	13.3J	ug/L	50.0	8.7	50		11/02/21 19:27	75-01-4	
Xylene (Total)	3130	ug/L	150	52.4	50		11/02/21 19:27	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		50		11/02/21 19:27	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		50		11/02/21 19:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		50		11/02/21 19:27	2199-69-1	

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ANALYTICAL RESULTS

Project: 8260
Pace Project No.: 40235837

Sample: TRIP BLANK **Lab ID: 40235837008** Collected: 10/26/21 00:00 Received: 10/27/21 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		11/02/21 12:17	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 12:17	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/02/21 12:17	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 12:17	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 12:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 12:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 12:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 12:17	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 12:17	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 12:17	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 12:17	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 12:17	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 12:17	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 12:17	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 12:17	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 12:17	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 12:17	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 12:17	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 12:17	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		11/02/21 12:17	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 12:17	98-82-8	
Methylene Chloride	1.8J	ug/L	5.0	0.32	1		11/02/21 12:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/02/21 12:17	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 12:17	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 12:17	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		11/02/21 12:17	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 12:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 12:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 12:17	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 12:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 12:17	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 12:17	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 12:17	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 12:17	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/02/21 12:17	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 12:17	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 12:17	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 12:17	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 12:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		11/02/21 12:17	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		11/02/21 12:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		11/02/21 12:17	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 8260
Pace Project No.: 40235837

QC Batch: 400171	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40235837001

METHOD BLANK: 2311401 Matrix: Water
Associated Lab Samples: 40235837001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	11/01/21 07:06	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	11/01/21 07:06	
Acetone	ug/L	<8.6	25.0	11/01/21 07:06	
Chloromethane	ug/L	<1.6	5.0	11/01/21 07:06	
Methylene Chloride	ug/L	<0.32	5.0	11/01/21 07:06	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	11/01/21 07:06	
4-Bromofluorobenzene (S)	%	96	70-130	11/01/21 07:06	
Toluene-d8 (S)	%	103	70-130	11/01/21 07:06	

LABORATORY CONTROL SAMPLE: 2311402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	43.3	87	27-148	
Methylene Chloride	ug/L	50	44.5	89	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2311403 2311404

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40235837001 Result	Spike Conc.	Spike Conc.	MS Result						
Chloromethane	ug/L	<1.6	50	50	38.5	38.6	77	77	17-149	0	20
Methylene Chloride	ug/L	0.67J	50	50	45.1	47.7	89	94	70-130	6	20
1,2-Dichlorobenzene-d4 (S)	%						100	97	70-130		
4-Bromofluorobenzene (S)	%						103	102	70-130		
Toluene-d8 (S)	%						104	102	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 8260
Pace Project No.: 40235837

QC Batch: 400159 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40235837002, 40235837003, 40235837004, 40235837005, 40235837006, 40235837007, 40235837008

METHOD BLANK: 2311368 Matrix: Water
Associated Lab Samples: 40235837002, 40235837003, 40235837004, 40235837005, 40235837006, 40235837007, 40235837008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	11/02/21 09:23	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/02/21 09:23	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	11/02/21 09:23	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/02/21 09:23	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/02/21 09:23	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/02/21 09:23	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/02/21 09:23	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	11/02/21 09:23	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/02/21 09:23	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/02/21 09:23	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/02/21 09:23	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	11/02/21 09:23	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/02/21 09:23	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/02/21 09:23	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/02/21 09:23	
2-Propanol	ug/L	<9.9	100	11/02/21 09:23	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	11/02/21 09:23	
Acetone	ug/L	<8.6	25.0	11/02/21 09:23	
Benzene	ug/L	<0.30	1.0	11/02/21 09:23	
Carbon tetrachloride	ug/L	<0.37	1.0	11/02/21 09:23	
Chlorobenzene	ug/L	<0.86	1.0	11/02/21 09:23	
Chloroethane	ug/L	<1.4	5.0	11/02/21 09:23	
Chloroform	ug/L	<1.2	5.0	11/02/21 09:23	
Chloromethane	ug/L	<1.6	5.0	11/02/21 09:23	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/02/21 09:23	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/02/21 09:23	
Ethylbenzene	ug/L	<0.33	1.0	11/02/21 09:23	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	11/02/21 09:23	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/02/21 09:23	
Methylene Chloride	ug/L	<0.32	5.0	11/02/21 09:23	
n-Hexane	ug/L	<1.5	5.0	11/02/21 09:23	
Naphthalene	ug/L	<1.1	5.0	11/02/21 09:23	
Styrene	ug/L	<0.36	1.0	11/02/21 09:23	
Tetrachloroethane	ug/L	<0.41	1.0	11/02/21 09:23	
Toluene	ug/L	<0.29	1.0	11/02/21 09:23	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/02/21 09:23	
Trichloroethene	ug/L	<0.32	1.0	11/02/21 09:23	
Vinyl chloride	ug/L	<0.17	1.0	11/02/21 09:23	
Xylene (Total)	ug/L	<1.0	3.0	11/02/21 09:23	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	11/02/21 09:23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 8260
Pace Project No.: 40235837

METHOD BLANK: 2311368 Matrix: Water
Associated Lab Samples: 40235837002, 40235837003, 40235837004, 40235837005, 40235837006, 40235837007, 40235837008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	87	70-130	11/02/21 09:23	
Toluene-d8 (S)	%	100	70-130	11/02/21 09:23	

LABORATORY CONTROL SAMPLE: 2311369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.6	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	66-130	
1,1,2-Trichloroethane	ug/L	50	58.7	117	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	68-132	
1,1-Dichloroethene	ug/L	50	53.9	108	85-126	
1,2,4-Trichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichlorobenzene	ug/L	50	59.0	118	70-130	
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
1,2-Dichloropropane	ug/L	50	52.5	105	78-125	
1,3-Dichlorobenzene	ug/L	50	58.0	116	70-130	
1,4-Dichlorobenzene	ug/L	50	58.5	117	70-130	
Benzene	ug/L	50	56.8	114	70-132	
Carbon tetrachloride	ug/L	50	57.9	116	70-130	
Chlorobenzene	ug/L	50	61.4	123	70-130	
Chloroethane	ug/L	50	53.9	108	73-137	
Chloroform	ug/L	50	57.7	115	80-122	
Chloromethane	ug/L	50	30.8	62	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.4	111	70-130	
Dichlorodifluoromethane	ug/L	50	25.7	51	22-151	
Ethylbenzene	ug/L	50	60.2	120	80-123	
Isopropylbenzene (Cumene)	ug/L	50	64.1	128	70-130	
Methyl-tert-butyl ether	ug/L	50	49.0	98	66-130	
Methylene Chloride	ug/L	50	54.3	109	70-130	
Styrene	ug/L	50	63.9	128	70-130	
Tetrachloroethene	ug/L	50	64.0	128	70-130	
Toluene	ug/L	50	59.6	119	80-121	
trans-1,2-Dichloroethene	ug/L	50	57.1	114	70-130	
Trichloroethene	ug/L	50	56.3	113	70-130	
Vinyl chloride	ug/L	50	43.4	87	63-142	
Xylene (Total)	ug/L	150	185	124	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 8260
Pace Project No.: 40235837

Parameter	Units	2311370		2311371		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40236032005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	<0.30	50	50	55.4	56.2	111	112	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	52.3	51.8	105	104	66-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	57.3	58.2	115	116	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	52.0	53.0	104	106	68-132	2	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	53.1	53.1	106	106	76-132	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	54.6	55.6	109	111	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	57.0	57.5	114	115	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	45.9	52.0	92	104	70-130	12	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	51.1	52.4	102	105	77-125	3	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	56.6	55.2	113	110	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	57.8	56.9	116	114	70-130	2	20	
Benzene	ug/L	<0.30	50	50	55.4	56.2	111	112	70-132	1	20	
Carbon tetrachloride	ug/L	<0.37	50	50	56.4	57.7	113	115	70-132	2	20	
Chlorobenzene	ug/L	<0.86	50	50	59.6	60.9	119	122	70-130	2	20	
Chloroethane	ug/L	<1.4	50	50	52.8	52.5	106	105	70-137	0	20	
Chloroform	ug/L	<1.2	50	50	56.1	57.4	112	115	80-122	2	20	
Chloromethane	ug/L	<1.6	50	50	30.3	30.5	61	61	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	55.1	55.2	110	110	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	24.3	24.6	49	49	22-158	1	20	
Ethylbenzene	ug/L	<0.33	50	50	58.8	60.8	118	122	80-123	3	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	64.5	65.8	127	130	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	49.5	51.2	99	102	66-130	3	20	
Methylene Chloride	ug/L	<0.32	50	50	53.8	55.0	108	110	70-130	2	20	
Styrene	ug/L	<0.36	50	50	62.0	64.6	124	129	70-130	4	20	
Tetrachloroethene	ug/L	<0.41	50	50	62.6	63.9	125	128	70-130	2	20	
Toluene	ug/L	0.38J	50	50	58.6	60.1	116	119	80-121	3	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	55.1	55.8	110	112	70-134	1	20	
Trichloroethene	ug/L	<0.32	50	50	55.3	55.0	111	110	70-130	1	20	
Vinyl chloride	ug/L	<0.17	50	50	42.2	42.4	84	85	61-143	0	20	
Xylene (Total)	ug/L	<1.0	150	150	183	187	122	125	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%						101	97	70-130			
4-Bromofluorobenzene (S)	%						90	89	70-130			
Toluene-d8 (S)	%						103	104	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 8260
Pace Project No.: 40235837

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8260
Pace Project No.: 40235837

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40235837001	RESERVOIR	EPA 8260	400171		
40235837002	PRODUCTION	EPA 8260	400159		
40235837003	RW6	EPA 8260	400159		
40235837004	RW10	EPA 8260	400159		
40235837005	RW11	EPA 8260	400159		
40235837006	RW12	EPA 8260	400159		
40235837007	RW13	EPA 8260	400159		
40235837008	TRIP BLANK	EPA 8260	400159		

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UPPER MIDWEST REGION

Page 1 of

MN: 612-607-1700 WI: 920-469-2436

40235837

Company Name: WRR Environmental Services
 Branch/Location: 5000 Ryder Rd
 Project Contact: Eric Gunderson
 Phone: 715-834-9624
 Project Number:
 Project Name:
 Project State: WI
 X Sampled By (Print): Selamy Ottum
 X Sampled By (Sign): [Signature]
 PO #:
 Regulatory Program:



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

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	8260 Short	8260 Full														
	B		X															
	B			X														
				X														
				X														
				X														
				X														
				X														

Quote #:
 Mail To Contact: Eric Gunderson
 Mail To Company: WRR Environmental Services
 Mail To Address: 5000 Ryder Rd, Eau Claire, WI 54701
 Invoice To Contact: Heather Kenecilly
 Invoice To Company: WRR
 Invoice To Address: Same as above
 Invoice To Phone: 715-834-9624
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

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		MATRIX	Y/N	Pick Letter	Analyses Requested	8260 Short	8260 Full										
		DATE	TIME																
001	Reservoir	10-26-21	7:55	LW				X											
002	Production	10-26-21	6:35	LW					X										
003	BWG	10-26-21	7:05	LW					X										
004	BW10	10-26-21	6:45	LW					X										
005	BW11	10-26-21	6:50	LW					X										
006	BW12	10-26-21	6:40	LW					X										
007	BW13	10-26-21	6:05	LW					X										
008	Trip blank																		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: X [Signature] 10/26/21 7:16 AM
 Relinquished By: [Signature] Date/Time: 10/26/21 7:16 AM
 Received By: [Signature] Date/Time: 10/15


Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: Speedee Date/Time: 10/27/21 10:15
 Received By: [Signature] Date/Time: 10/27/21

PACE Project No. 40235837
 Receipt Temp = 2.1 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Relinquished By: Date/Time: Received By: Date/Time:

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

① Trip blank received & added to COC by lab

 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 #: _____

Client Name: WRR Environmental

WO# : 40235837

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



Tracking #: 00359 03 29921 8546A

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 - 114 Type of Ice: Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2.1

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

Person examining contents:
Date: <u>10/27/21</u> /Initials: <u>MP</u>
Labeled By Initials: <u>SRK</u>

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>proj#, name, pg# 10/27/21 MP</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>008 one vial cracked upon receipt 10/27/21 SRK</u>
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>001 time "6:55 AM" 10/27/21 SRK</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Trip blank expired 10/27/21 SRK</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>60021</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Notify client not to use water soluble ink on sample labels 10/27/21 MP

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

November 12, 2021

Eric Gunderson
WRR Environmental Services
5200 Ryder Road
Eau Claire, WI 54701

RE: Project: RESERVOIR, PROD., RW
Pace Project No.: 40236364

Dear Eric Gunderson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2021. 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: Becky Anderson, WRR Environmental Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

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

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SAMPLE SUMMARY

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40236364001	RESERVOIR	Water	11/03/21 06:50	11/04/21 10:05
40236364002	PRODUCTION	Water	11/03/21 06:30	11/04/21 10:05
40236364003	RW6	Water	11/03/21 07:00	11/04/21 10:05
40236364004	RW10	Water	11/03/21 06:35	11/04/21 10:05
40236364005	RW11	Water	11/03/21 06:45	11/04/21 10:05
40236364006	RW12	Water	11/03/21 06:40	11/04/21 10:05
40236364007	RW13	Water	11/03/21 06:55	11/04/21 10:05
40236364008	TRIP BLANK	Water	11/03/21 00:00	11/04/21 10:05

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SAMPLE ANALYTE COUNT

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40236364001	RESERVOIR	EPA 8260	JAV	8	PASI-G
40236364002	PRODUCTION	EPA 8260	LAP	42	PASI-G
40236364003	RW6	EPA 8260	LAP	42	PASI-G
40236364004	RW10	EPA 8260	LAP	42	PASI-G
40236364005	RW11	EPA 8260	LAP	42	PASI-G
40236364006	RW12	EPA 8260	LAP	42	PASI-G
40236364007	RW13	EPA 8260	LAP	42	PASI-G
40236364008	TRIP BLANK	EPA 8260	LAP	42	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RESERVOIR **Lab ID: 40236364001** Collected: 11/03/21 06:50 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	865	ug/L	25.0	8.6	1		11/09/21 19:16	67-64-1	
2-Butanone (MEK)	7.8J	ug/L	25.0	6.5	1		11/09/21 19:16	78-93-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/09/21 19:16	74-87-3	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/09/21 19:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/09/21 19:16	108-10-1	
Surrogates									
4-Bromofluorobenzene (S)	112	%	70-130		1		11/09/21 19:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/09/21 19:16	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		11/09/21 19:16	2037-26-5	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: PRODUCTION **Lab ID: 40236364002** Collected: 11/03/21 06:30 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		11/10/21 13:06	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/10/21 13:06	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/10/21 13:06	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/10/21 13:06	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/10/21 13:06	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/10/21 13:06	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/10/21 13:06	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/10/21 13:06	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/10/21 13:06	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/10/21 13:06	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/10/21 13:06	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/10/21 13:06	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/10/21 13:06	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/10/21 13:06	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/10/21 13:06	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/10/21 13:06	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/10/21 13:06	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/10/21 13:06	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/10/21 13:06	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		11/10/21 13:06	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/10/21 13:06	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/10/21 13:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/10/21 13:06	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/10/21 13:06	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/10/21 13:06	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		11/10/21 13:06	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		11/10/21 13:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/10/21 13:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/10/21 13:06	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/10/21 13:06	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/10/21 13:06	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/10/21 13:06	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/10/21 13:06	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/10/21 13:06	79-00-5	
Trichloroethene	0.40J	ug/L	1.0	0.32	1		11/10/21 13:06	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/10/21 13:06	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/10/21 13:06	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/10/21 13:06	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/10/21 13:06	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		11/10/21 13:06	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		11/10/21 13:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/10/21 13:06	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RW6 **Lab ID: 40236364003** Collected: 11/03/21 07:00 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	4020	ug/L	2500	864	100		11/10/21 14:25	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		11/10/21 14:25	71-43-2	
2-Butanone (MEK)	669J	ug/L	2500	652	100		11/10/21 14:25	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		11/10/21 14:25	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		11/10/21 14:25	108-90-7	
Chloroethane	210J	ug/L	500	138	100		11/10/21 14:25	75-00-3	
Chloroform	<118	ug/L	500	118	100		11/10/21 14:25	67-66-3	
Chloromethane	<164	ug/L	500	164	100		11/10/21 14:25	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		11/10/21 14:25	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		11/10/21 14:25	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		11/10/21 14:25	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		11/10/21 14:25	75-71-8	
1,1-Dichloroethane	<29.6	ug/L	100	29.6	100		11/10/21 14:25	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		11/10/21 14:25	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		11/10/21 14:25	75-35-4	
cis-1,2-Dichloroethene	<47.2	ug/L	100	47.2	100		11/10/21 14:25	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		11/10/21 14:25	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		11/10/21 14:25	78-87-5	
Ethylbenzene	408	ug/L	100	32.5	100		11/10/21 14:25	100-41-4	
n-Hexane	<146	ug/L	500	146	100		11/10/21 14:25	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		11/10/21 14:25	98-82-8	
Methylene Chloride	<31.9	ug/L	500	31.9	100		11/10/21 14:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	781J	ug/L	2500	595	100		11/10/21 14:25	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		11/10/21 14:25	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		11/10/21 14:25	91-20-3	
2-Propanol	4870J	ug/L	10000	985	100		11/10/21 14:25	67-63-0	
Styrene	<35.6	ug/L	100	35.6	100		11/10/21 14:25	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		11/10/21 14:25	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		11/10/21 14:25	79-34-5	
Tetrachloroethene	<40.9	ug/L	100	40.9	100		11/10/21 14:25	127-18-4	
Toluene	10900	ug/L	100	28.8	100		11/10/21 14:25	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/10/21 14:25	120-82-1	
1,1,1-Trichloroethane	<30.3	ug/L	100	30.3	100		11/10/21 14:25	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		11/10/21 14:25	79-00-5	
Trichloroethene	<32.0	ug/L	100	32.0	100		11/10/21 14:25	79-01-6	
1,2,4-Trimethylbenzene	<44.9	ug/L	100	44.9	100		11/10/21 14:25	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		11/10/21 14:25	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		11/10/21 14:25	75-01-4	
Xylene (Total)	2740	ug/L	300	105	100		11/10/21 14:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		100		11/10/21 14:25	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		100		11/10/21 14:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		100		11/10/21 14:25	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RW10 **Lab ID: 40236364004** Collected: 11/03/21 06:35 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	27800	ug/L	2500	864	100		11/10/21 14:45	67-64-1	
Benzene	<29.5	ug/L	100	29.5	100		11/10/21 14:45	71-43-2	
2-Butanone (MEK)	33500	ug/L	2500	652	100		11/10/21 14:45	78-93-3	
Carbon tetrachloride	<36.9	ug/L	100	36.9	100		11/10/21 14:45	56-23-5	
Chlorobenzene	<85.5	ug/L	100	85.5	100		11/10/21 14:45	108-90-7	
Chloroethane	<138	ug/L	500	138	100		11/10/21 14:45	75-00-3	
Chloroform	<118	ug/L	500	118	100		11/10/21 14:45	67-66-3	
Chloromethane	<164	ug/L	500	164	100		11/10/21 14:45	74-87-3	
1,2-Dichlorobenzene	<32.6	ug/L	100	32.6	100		11/10/21 14:45	95-50-1	
1,3-Dichlorobenzene	<35.1	ug/L	100	35.1	100		11/10/21 14:45	541-73-1	
1,4-Dichlorobenzene	<89.2	ug/L	100	89.2	100		11/10/21 14:45	106-46-7	
Dichlorodifluoromethane	<45.5	ug/L	500	45.5	100		11/10/21 14:45	75-71-8	
1,1-Dichloroethane	33.5J	ug/L	100	29.6	100		11/10/21 14:45	75-34-3	
1,2-Dichloroethane	<29.2	ug/L	100	29.2	100		11/10/21 14:45	107-06-2	
1,1-Dichloroethene	<58.2	ug/L	100	58.2	100		11/10/21 14:45	75-35-4	
cis-1,2-Dichloroethene	275	ug/L	100	47.2	100		11/10/21 14:45	156-59-2	
trans-1,2-Dichloroethene	<52.8	ug/L	100	52.8	100		11/10/21 14:45	156-60-5	
1,2-Dichloropropane	<44.8	ug/L	100	44.8	100		11/10/21 14:45	78-87-5	
Ethylbenzene	754	ug/L	100	32.5	100		11/10/21 14:45	100-41-4	
n-Hexane	<146	ug/L	500	146	100		11/10/21 14:45	110-54-3	
Isopropylbenzene (Cumene)	<100	ug/L	500	100	100		11/10/21 14:45	98-82-8	
Methylene Chloride	103J	ug/L	500	31.9	100		11/10/21 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	<595	ug/L	2500	595	100		11/10/21 14:45	108-10-1	
Methyl-tert-butyl ether	<113	ug/L	500	113	100		11/10/21 14:45	1634-04-4	
Naphthalene	<113	ug/L	500	113	100		11/10/21 14:45	91-20-3	
2-Propanol	10800	ug/L	10000	985	100		11/10/21 14:45	67-63-0	
Styrene	58.7J	ug/L	100	35.6	100		11/10/21 14:45	100-42-5	
1,1,1,2-Tetrachloroethane	<35.5	ug/L	100	35.5	100		11/10/21 14:45	630-20-6	
1,1,2,2-Tetrachloroethane	<37.8	ug/L	100	37.8	100		11/10/21 14:45	79-34-5	
Tetrachloroethene	43.7J	ug/L	100	40.9	100		11/10/21 14:45	127-18-4	
Toluene	9850	ug/L	100	28.8	100		11/10/21 14:45	108-88-3	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/10/21 14:45	120-82-1	
1,1,1-Trichloroethane	401	ug/L	100	30.3	100		11/10/21 14:45	71-55-6	
1,1,2-Trichloroethane	<34.4	ug/L	500	34.4	100		11/10/21 14:45	79-00-5	
Trichloroethene	349	ug/L	100	32.0	100		11/10/21 14:45	79-01-6	
1,2,4-Trimethylbenzene	54.1J	ug/L	100	44.9	100		11/10/21 14:45	95-63-6	
1,3,5-Trimethylbenzene	<35.7	ug/L	100	35.7	100		11/10/21 14:45	108-67-8	
Vinyl chloride	<17.4	ug/L	100	17.4	100		11/10/21 14:45	75-01-4	
Xylene (Total)	3640	ug/L	300	105	100		11/10/21 14:45	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%	70-130		100		11/10/21 14:45	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		100		11/10/21 14:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		100		11/10/21 14:45	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RW11 **Lab ID: 40236364005** Collected: 11/03/21 06:45 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<346	ug/L	1000	346	40		11/10/21 15:24	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		11/10/21 15:24	71-43-2	
2-Butanone (MEK)	<261	ug/L	1000	261	40		11/10/21 15:24	78-93-3	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		11/10/21 15:24	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		11/10/21 15:24	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		11/10/21 15:24	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		11/10/21 15:24	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		11/10/21 15:24	74-87-3	
1,2-Dichlorobenzene	<13.0	ug/L	40.0	13.0	40		11/10/21 15:24	95-50-1	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		11/10/21 15:24	541-73-1	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		11/10/21 15:24	106-46-7	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		11/10/21 15:24	75-71-8	
1,1-Dichloroethane	300	ug/L	40.0	11.8	40		11/10/21 15:24	75-34-3	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		11/10/21 15:24	107-06-2	
1,1-Dichloroethene	<23.3	ug/L	40.0	23.3	40		11/10/21 15:24	75-35-4	
cis-1,2-Dichloroethene	1290	ug/L	40.0	18.9	40		11/10/21 15:24	156-59-2	
trans-1,2-Dichloroethene	<21.1	ug/L	40.0	21.1	40		11/10/21 15:24	156-60-5	
1,2-Dichloropropane	<17.9	ug/L	40.0	17.9	40		11/10/21 15:24	78-87-5	
Ethylbenzene	1370	ug/L	40.0	13.0	40		11/10/21 15:24	100-41-4	
n-Hexane	<58.5	ug/L	200	58.5	40		11/10/21 15:24	110-54-3	
Isopropylbenzene (Cumene)	<40.0	ug/L	200	40.0	40		11/10/21 15:24	98-82-8	
Methylene Chloride	<12.8	ug/L	200	12.8	40		11/10/21 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		11/10/21 15:24	108-10-1	
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		11/10/21 15:24	1634-04-4	
Naphthalene	<45.2	ug/L	200	45.2	40		11/10/21 15:24	91-20-3	
2-Propanol	<394	ug/L	4000	394	40		11/10/21 15:24	67-63-0	
Styrene	<14.3	ug/L	40.0	14.3	40		11/10/21 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		11/10/21 15:24	630-20-6	
1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		11/10/21 15:24	79-34-5	
Tetrachloroethene	<16.3	ug/L	40.0	16.3	40		11/10/21 15:24	127-18-4	
Toluene	5610	ug/L	40.0	11.5	40		11/10/21 15:24	108-88-3	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		11/10/21 15:24	120-82-1	
1,1,1-Trichloroethane	155	ug/L	40.0	12.1	40		11/10/21 15:24	71-55-6	
1,1,2-Trichloroethane	<13.8	ug/L	200	13.8	40		11/10/21 15:24	79-00-5	
Trichloroethene	33.8J	ug/L	40.0	12.8	40		11/10/21 15:24	79-01-6	
1,2,4-Trimethylbenzene	209	ug/L	40.0	17.9	40		11/10/21 15:24	95-63-6	
1,3,5-Trimethylbenzene	59.5	ug/L	40.0	14.3	40		11/10/21 15:24	108-67-8	
Vinyl chloride	227	ug/L	40.0	7.0	40		11/10/21 15:24	75-01-4	
Xylene (Total)	5870	ug/L	120	41.9	40		11/10/21 15:24	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	70-130		40		11/10/21 15:24	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		40		11/10/21 15:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		40		11/10/21 15:24	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RW12 **Lab ID: 40236364006** Collected: 11/03/21 06:40 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	11100J	ug/L	12500	4320	500		11/10/21 14:05	67-64-1	
Benzene	<148	ug/L	500	148	500		11/10/21 14:05	71-43-2	
2-Butanone (MEK)	4890J	ug/L	12500	3260	500		11/10/21 14:05	78-93-3	
Carbon tetrachloride	<185	ug/L	500	185	500		11/10/21 14:05	56-23-5	
Chlorobenzene	<428	ug/L	500	428	500		11/10/21 14:05	108-90-7	
Chloroethane	<690	ug/L	2500	690	500		11/10/21 14:05	75-00-3	
Chloroform	<591	ug/L	2500	591	500		11/10/21 14:05	67-66-3	
Chloromethane	<818	ug/L	2500	818	500		11/10/21 14:05	74-87-3	
1,2-Dichlorobenzene	<163	ug/L	500	163	500		11/10/21 14:05	95-50-1	
1,3-Dichlorobenzene	<176	ug/L	500	176	500		11/10/21 14:05	541-73-1	
1,4-Dichlorobenzene	<446	ug/L	500	446	500		11/10/21 14:05	106-46-7	
Dichlorodifluoromethane	<228	ug/L	2500	228	500		11/10/21 14:05	75-71-8	
1,1-Dichloroethane	697	ug/L	500	148	500		11/10/21 14:05	75-34-3	
1,2-Dichloroethane	<146	ug/L	500	146	500		11/10/21 14:05	107-06-2	
1,1-Dichloroethene	<291	ug/L	500	291	500		11/10/21 14:05	75-35-4	
cis-1,2-Dichloroethene	2850	ug/L	500	236	500		11/10/21 14:05	156-59-2	
trans-1,2-Dichloroethene	<264	ug/L	500	264	500		11/10/21 14:05	156-60-5	
1,2-Dichloropropane	<224	ug/L	500	224	500		11/10/21 14:05	78-87-5	
Ethylbenzene	2220	ug/L	500	163	500		11/10/21 14:05	100-41-4	
n-Hexane	<731	ug/L	2500	731	500		11/10/21 14:05	110-54-3	
Isopropylbenzene (Cumene)	<500	ug/L	2500	500	500		11/10/21 14:05	98-82-8	
Methylene Chloride	922J	ug/L	2500	160	500		11/10/21 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	3300J	ug/L	12500	2980	500		11/10/21 14:05	108-10-1	
Methyl-tert-butyl ether	<565	ug/L	2500	565	500		11/10/21 14:05	1634-04-4	
Naphthalene	<565	ug/L	2500	565	500		11/10/21 14:05	91-20-3	
2-Propanol	43700J	ug/L	50000	4930	500		11/10/21 14:05	67-63-0	
Styrene	<178	ug/L	500	178	500		11/10/21 14:05	100-42-5	
1,1,1,2-Tetrachloroethane	<178	ug/L	500	178	500		11/10/21 14:05	630-20-6	
1,1,2,2-Tetrachloroethane	<189	ug/L	500	189	500		11/10/21 14:05	79-34-5	
Tetrachloroethene	<204	ug/L	500	204	500		11/10/21 14:05	127-18-4	
Toluene	41800	ug/L	500	144	500		11/10/21 14:05	108-88-3	
1,2,4-Trichlorobenzene	<475	ug/L	2500	475	500		11/10/21 14:05	120-82-1	
1,1,1-Trichloroethane	1750	ug/L	500	151	500		11/10/21 14:05	71-55-6	
1,1,2-Trichloroethane	<172	ug/L	2500	172	500		11/10/21 14:05	79-00-5	
Trichloroethene	588	ug/L	500	160	500		11/10/21 14:05	79-01-6	
1,2,4-Trimethylbenzene	<224	ug/L	500	224	500		11/10/21 14:05	95-63-6	
1,3,5-Trimethylbenzene	<179	ug/L	500	179	500		11/10/21 14:05	108-67-8	
Vinyl chloride	309J	ug/L	500	87.2	500		11/10/21 14:05	75-01-4	
Xylene (Total)	8350	ug/L	1500	524	500		11/10/21 14:05	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%	70-130		500		11/10/21 14:05	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		500		11/10/21 14:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		500		11/10/21 14:05	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: RW13 **Lab ID: 40236364007** Collected: 11/03/21 06:55 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	2130	ug/L	1250	432	50		11/10/21 15:04	67-64-1	
Benzene	<14.8	ug/L	50.0	14.8	50		11/10/21 15:04	71-43-2	
2-Butanone (MEK)	471J	ug/L	1250	326	50		11/10/21 15:04	78-93-3	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		11/10/21 15:04	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		11/10/21 15:04	108-90-7	
Chloroethane	104J	ug/L	250	69.0	50		11/10/21 15:04	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		11/10/21 15:04	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		11/10/21 15:04	74-87-3	
1,2-Dichlorobenzene	<16.3	ug/L	50.0	16.3	50		11/10/21 15:04	95-50-1	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		11/10/21 15:04	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		11/10/21 15:04	106-46-7	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		11/10/21 15:04	75-71-8	
1,1-Dichloroethane	44.4J	ug/L	50.0	14.8	50		11/10/21 15:04	75-34-3	
1,2-Dichloroethane	<14.6	ug/L	50.0	14.6	50		11/10/21 15:04	107-06-2	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		11/10/21 15:04	75-35-4	
cis-1,2-Dichloroethene	58.0	ug/L	50.0	23.6	50		11/10/21 15:04	156-59-2	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		11/10/21 15:04	156-60-5	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		11/10/21 15:04	78-87-5	
Ethylbenzene	462	ug/L	50.0	16.3	50		11/10/21 15:04	100-41-4	
n-Hexane	<73.1	ug/L	250	73.1	50		11/10/21 15:04	110-54-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		11/10/21 15:04	98-82-8	
Methylene Chloride	<16.0	ug/L	250	16.0	50		11/10/21 15:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	452J	ug/L	1250	298	50		11/10/21 15:04	108-10-1	
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		11/10/21 15:04	1634-04-4	
Naphthalene	<56.5	ug/L	250	56.5	50		11/10/21 15:04	91-20-3	
2-Propanol	3060J	ug/L	5000	493	50		11/10/21 15:04	67-63-0	
Styrene	<17.8	ug/L	50.0	17.8	50		11/10/21 15:04	100-42-5	
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		11/10/21 15:04	630-20-6	
1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		11/10/21 15:04	79-34-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		11/10/21 15:04	127-18-4	
Toluene	6960	ug/L	50.0	14.4	50		11/10/21 15:04	108-88-3	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		11/10/21 15:04	120-82-1	
1,1,1-Trichloroethane	<15.1	ug/L	50.0	15.1	50		11/10/21 15:04	71-55-6	
1,1,2-Trichloroethane	<17.2	ug/L	250	17.2	50		11/10/21 15:04	79-00-5	
Trichloroethene	16.3J	ug/L	50.0	16.0	50		11/10/21 15:04	79-01-6	
1,2,4-Trimethylbenzene	27.6J	ug/L	50.0	22.4	50		11/10/21 15:04	95-63-6	
1,3,5-Trimethylbenzene	<17.9	ug/L	50.0	17.9	50		11/10/21 15:04	108-67-8	
Vinyl chloride	19.3J	ug/L	50.0	8.7	50		11/10/21 15:04	75-01-4	
Xylene (Total)	1980	ug/L	150	52.4	50		11/10/21 15:04	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%	70-130		50		11/10/21 15:04	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		50		11/10/21 15:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		50		11/10/21 15:04	2199-69-1	

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ANALYTICAL RESULTS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Sample: TRIP BLANK **Lab ID: 40236364008** Collected: 11/03/21 00:00 Received: 11/04/21 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Acetone	<8.6	ug/L	25.0	8.6	1		11/10/21 11:28	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		11/10/21 11:28	71-43-2	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		11/10/21 11:28	78-93-3	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/10/21 11:28	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/10/21 11:28	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/10/21 11:28	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/10/21 11:28	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/10/21 11:28	74-87-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/10/21 11:28	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/10/21 11:28	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/10/21 11:28	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/10/21 11:28	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/10/21 11:28	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/10/21 11:28	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/10/21 11:28	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/10/21 11:28	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/10/21 11:28	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/10/21 11:28	78-87-5	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/10/21 11:28	100-41-4	
n-Hexane	<1.5	ug/L	5.0	1.5	1		11/10/21 11:28	110-54-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/10/21 11:28	98-82-8	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/10/21 11:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		11/10/21 11:28	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/10/21 11:28	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/10/21 11:28	91-20-3	
2-Propanol	<9.9	ug/L	100	9.9	1		11/10/21 11:28	67-63-0	
Styrene	<0.36	ug/L	1.0	0.36	1		11/10/21 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/10/21 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/10/21 11:28	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/10/21 11:28	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/10/21 11:28	108-88-3	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/10/21 11:28	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/10/21 11:28	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/10/21 11:28	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/10/21 11:28	79-01-6	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/10/21 11:28	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/10/21 11:28	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/10/21 11:28	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/10/21 11:28	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		11/10/21 11:28	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		11/10/21 11:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/10/21 11:28	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RESERVOIR, PROD., RW
Pace Project No.: 40236364

QC Batch: 400862	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40236364001

METHOD BLANK: 2314808 Matrix: Water
Associated Lab Samples: 40236364001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	<6.5	25.0	11/09/21 14:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	11/09/21 14:28	
Acetone	ug/L	<8.6	25.0	11/09/21 14:28	
Chloromethane	ug/L	<1.6	5.0	11/09/21 14:28	
Methylene Chloride	ug/L	<0.32	5.0	11/09/21 14:28	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	11/09/21 14:28	
4-Bromofluorobenzene (S)	%	110	70-130	11/09/21 14:28	
Toluene-d8 (S)	%	100	70-130	11/09/21 14:28	

LABORATORY CONTROL SAMPLE: 2314809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	50	50.6	101	27-148	
Methylene Chloride	ug/L	50	51.7	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2316768 2316769

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40236104001 Result	Spike Conc.	Spike Conc.	MS Result						
Chloromethane	ug/L	<1.6	50	50	48.8	49.3	98	99	17-149	1	20
Methylene Chloride	ug/L	<0.32	50	50	52.8	53.6	106	107	70-130	1	20
1,2-Dichlorobenzene-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						103	106	70-130		
Toluene-d8 (S)	%						102	101	70-130		

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QUALITY CONTROL DATA

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

QC Batch: 400861

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Oxygenates

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40236364002, 40236364003, 40236364004, 40236364005, 40236364006, 40236364007, 40236364008

METHOD BLANK: 2314805

Matrix: Water

Associated Lab Samples: 40236364002, 40236364003, 40236364004, 40236364005, 40236364006, 40236364007, 40236364008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	11/10/21 08:51	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/10/21 08:51	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	11/10/21 08:51	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/10/21 08:51	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/10/21 08:51	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/10/21 08:51	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/10/21 08:51	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	11/10/21 08:51	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/10/21 08:51	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/10/21 08:51	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/10/21 08:51	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	11/10/21 08:51	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/10/21 08:51	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/10/21 08:51	
2-Butanone (MEK)	ug/L	<6.5	25.0	11/10/21 08:51	
2-Propanol	ug/L	<9.9	100	11/10/21 08:51	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	11/10/21 08:51	
Acetone	ug/L	<8.6	25.0	11/10/21 08:51	
Benzene	ug/L	<0.30	1.0	11/10/21 08:51	
Carbon tetrachloride	ug/L	<0.37	1.0	11/10/21 08:51	
Chlorobenzene	ug/L	<0.86	1.0	11/10/21 08:51	
Chloroethane	ug/L	<1.4	5.0	11/10/21 08:51	
Chloroform	ug/L	<1.2	5.0	11/10/21 08:51	
Chloromethane	ug/L	<1.6	5.0	11/10/21 08:51	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/10/21 08:51	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/10/21 08:51	
Ethylbenzene	ug/L	<0.33	1.0	11/10/21 08:51	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	11/10/21 08:51	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/10/21 08:51	
Methylene Chloride	ug/L	<0.32	5.0	11/10/21 08:51	
n-Hexane	ug/L	<1.5	5.0	11/10/21 08:51	
Naphthalene	ug/L	<1.1	5.0	11/10/21 08:51	
Styrene	ug/L	<0.36	1.0	11/10/21 08:51	
Tetrachloroethane	ug/L	<0.41	1.0	11/10/21 08:51	
Toluene	ug/L	<0.29	1.0	11/10/21 08:51	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/10/21 08:51	
Trichloroethene	ug/L	<0.32	1.0	11/10/21 08:51	
Vinyl chloride	ug/L	<0.17	1.0	11/10/21 08:51	
Xylene (Total)	ug/L	<1.0	3.0	11/10/21 08:51	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	11/10/21 08:51	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

METHOD BLANK: 2314805

Matrix: Water

Associated Lab Samples: 40236364002, 40236364003, 40236364004, 40236364005, 40236364006, 40236364007, 40236364008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	105	70-130	11/10/21 08:51	
Toluene-d8 (S)	%	93	70-130	11/10/21 08:51	

LABORATORY CONTROL SAMPLE: 2314806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.7	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	42.1	84	66-130	
1,1,2-Trichloroethane	ug/L	50	43.6	87	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	68-132	
1,1-Dichloroethene	ug/L	50	46.8	94	85-126	
1,2,4-Trichlorobenzene	ug/L	50	40.5	81	70-130	
1,2-Dichlorobenzene	ug/L	50	43.8	88	70-130	
1,2-Dichloroethane	ug/L	50	46.1	92	70-130	
1,2-Dichloropropane	ug/L	50	51.0	102	78-125	
1,3-Dichlorobenzene	ug/L	50	43.1	86	70-130	
1,4-Dichlorobenzene	ug/L	50	44.6	89	70-130	
Benzene	ug/L	50	46.5	93	70-132	
Carbon tetrachloride	ug/L	50	50.5	101	70-130	
Chlorobenzene	ug/L	50	44.9	90	70-130	
Chloroethane	ug/L	50	54.4	109	73-137	
Chloroform	ug/L	50	46.5	93	80-122	
Chloromethane	ug/L	50	51.5	103	27-148	
cis-1,2-Dichloroethene	ug/L	50	44.2	88	70-130	
Dichlorodifluoromethane	ug/L	50	30.2	60	22-151	
Ethylbenzene	ug/L	50	47.2	94	80-123	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	70-130	
Methyl-tert-butyl ether	ug/L	50	43.0	86	66-130	
Methylene Chloride	ug/L	50	46.6	93	70-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethane	ug/L	50	43.1	86	70-130	
Toluene	ug/L	50	45.6	91	80-121	
trans-1,2-Dichloroethene	ug/L	50	46.8	94	70-130	
Trichloroethene	ug/L	50	46.1	92	70-130	
Vinyl chloride	ug/L	50	50.7	101	63-142	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Parameter	Units	2317282		2317283		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40236312005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	<0.30	50	50	45.6	44.0	91	88	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	42.6	42.5	85	85	66-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	43.0	41.8	86	84	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	51.1	50.6	102	101	68-132	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	45.6	42.8	91	86	76-132	6	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	41.8	40.8	84	82	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	44.6	43.5	89	87	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	44.1	42.7	88	85	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	49.7	47.9	99	96	77-125	4	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	44.0	41.7	88	83	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	44.6	43.8	89	88	70-130	2	20	
Benzene	ug/L	<0.30	50	50	45.5	43.7	91	87	70-132	4	20	
Carbon tetrachloride	ug/L	<0.37	50	50	48.8	48.0	98	96	70-132	2	20	
Chlorobenzene	ug/L	<0.86	50	50	44.6	42.5	89	85	70-130	5	20	
Chloroethane	ug/L	<1.4	50	50	51.9	50.9	104	102	70-137	2	20	
Chloroform	ug/L	<1.2	50	50	45.5	44.3	91	89	80-122	2	20	
Chloromethane	ug/L	<1.6	50	50	46.8	45.6	94	91	17-149	3	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	43.0	41.2	86	82	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	26.6	26.1	53	52	22-158	2	20	
Ethylbenzene	ug/L	<0.33	50	50	47.1	45.2	94	90	80-123	4	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	48.8	46.8	98	94	70-130	4	20	
Methyl-tert-butyl ether	ug/L	3.0J	50	50	43.8	43.0	81	80	66-130	2	20	
Methylene Chloride	ug/L	<0.32	50	50	43.8	42.8	88	86	70-130	2	20	
Styrene	ug/L	<0.36	50	50	49.0	46.6	98	93	70-130	5	20	
Tetrachloroethene	ug/L	<0.41	50	50	42.9	40.6	86	81	70-130	5	20	
Toluene	ug/L	<0.29	50	50	45.0	43.3	90	87	80-121	4	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	46.4	44.5	93	89	70-134	4	20	
Trichloroethene	ug/L	<0.32	50	50	45.0	43.6	90	87	70-130	3	20	
Vinyl chloride	ug/L	<0.17	50	50	49.2	48.1	98	96	61-143	2	20	
Xylene (Total)	ug/L	<1.0	150	150	139	133	93	89	70-130	4	20	
1,2-Dichlorobenzene-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						107	108	70-130			
Toluene-d8 (S)	%						96	96	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RESERVOIR, PROD., RW

Pace Project No.: 40236364

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40236364001	RESERVOIR	EPA 8260	400862		
40236364002	PRODUCTION	EPA 8260	400861		
40236364003	RW6	EPA 8260	400861		
40236364004	RW10	EPA 8260	400861		
40236364005	RW11	EPA 8260	400861		
40236364006	RW12	EPA 8260	400861		
40236364007	RW13	EPA 8260	400861		
40236364008	TRIP BLANK	EPA 8260	400861		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: WRR Env

Project # 40236364

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	JG9U	JG9U	WGFU	WPFU								SP5T	ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			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

11/4/21
ALJ

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 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 #: _____

Client Name: WRR Env.

WO# : 40236364

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



Tracking #: SP 003359033082118396

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-107 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5.5 /Corr: 5.5

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

Person examining contents:	
Date: <u>1/4/21</u>	Initials: <u>ALJ</u>
Labeled By Initials: <u>SRK</u>	

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+CC 1/4/21 ALJ</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no pg#, proj. #/name 1/4/21 ALJ</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>LI</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

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

APPENDIX C

SUPPORTING DATA FOR EVALUATING SOIL VAPOR EXTRACTION SYSTEMS

APPENDIX C

SUPPORTING DATA FOR EVALUATING SOIL VAPOR EXTRACTION SYSTEMS

APPENDIX C-1

TABLES

<u>No.</u>	<u>Description</u>
C-1	Summary of VOCs Detected in Samples Collected from the Main SVE System (Feb 2015 – Nov 2021)
C-2	Estimated Air Emissions of PCE, Total HAPs, and Total VOCs from the Main SVE System
C-3	Summary of VOCs Detected in SVE-5 Exhaust Gas Samples
C-4	Estimated Air Emissions of Total HAPs and Total VOCs from SVE-5 Vent System
C-5	Summary of VOCs Detected in SVE-6 Exhaust Gas Samples
C-6	Estimated Air Emissions of Total HAPs and Total VOCs from SVE-6 Vent System

APPENDIX C-2

CHARTS

<u>No.</u>	<u>Description</u>
C-1	Total VOC Concentrations and Mass Removed by Main SVE System (July 2016– November 2021)
C-2	Total VOC Concentrations and Mass Removed by SVE-5 Vent System (August 2019 – November 2021)
C-3	Total VOC Concentrations and Mass Removed by SVE-6 Vent System (October 2020 – November 2021)

APPENDIX C-3

LABORATORY REPORTS – APRIL THROUGH NOVEMBER 2021

C1.0 SVE SYSTEM DESCRIPTIONS & OPERATIONS – APRIL THROUGH NOVEMBER 2021

There are three SVE systems removing volatile organic compounds (VOCs) from unsaturated soil at the site. The main SVE system currently includes:

- Two dual-phase extraction (DPE) wells, RW-10 and RW-11.
- Two vent wells, SVE-4 and SVE-7.
- One SVE unit consisting of a Rotron Model EN858 vacuum blower with a 7.5-hp motor and condensate knockout tank.

The main SVE unit was:

- Previously used in conjunction with three air injection (AI)/SVE systems located on site.
- Connected to RW-11 and resumed full-time operation on July 6, 2016.

The main SVE system was upgraded to include RW-10, SVE-4, and SVE-7 on September 13, 2016; October 1, 2018; and June 1, 2020, respectively.

Vent wells SVE-5 and SVE-6 are connected to their own separate vacuum blowers that began operating on August 5, 2019, and October 14, 2020, respectively.

In general, each SVE system operates seasonally during the warm weather months when the average daily ambient air temperature is above freezing. With the exceptions noted below, the three SVE systems operated continuously during this reporting period. The three systems were shut down:

- For the winter from November 9, 2020, through April 1, 2021.
- Between October 29 and November 2, 2021, because relatively cold weather was forecast over that weekend.
- From November 15, 2021, through the end of this reporting period.

During this reporting period, approximately 1,724 lbs of VOCs were removed by the three SVE systems. Through November 15, 2021, approximately 13,701 lbs of VOCs in the soil have been removed by the three SVE systems. Below is a summary of the mass of tetrachloroethylene (PCE), VOCs, and Hazardous Air Pollutants (HAPs) removed by each of the three SVE systems during this reporting period and the total cumulative mass of those compounds through November 2021.

SVE System	Mass Removed in 2021 (lbs)			Total Mass Removed through Nov 2021 (lbs)		
	PCE	HAPs	VOCs	PCE	HAPs	VOCs
Main	341	1,410	1,488	2,281	11,417	12,991
SVE-5	40.1	148	185	82.5	449	657
SVE-6	38.6	50	50.7	40.6	52.3	53
Total	420	1,608	1,724	2,404	11,918	13,701

As shown in the summary table above, PCE comprises from 13 to 78 percent of the HAPs and VOCs removed by each system. See Tables C-1, C-3, and C-5 for the specific concentration of each HAP and VOC measured in the exhaust gas samples collected from the main SVE system, SVE-5, and SVE-6, respectively.

Elevated concentrations of petroleum-related compounds (PRCs) were measured in the soil in the vicinity of Warehouse A where SVE-5 is located. Six one-inch-diameter wells, MP-2 through MP-7, were installed around the northern, western, and southern perimeter of Warehouse A to measure vacuums during the pilot test for SVE-5. Those wells are screened in the vadose zone, and their caps are removed when the SVE systems are operating to allow air to enter the subsurface, creating an aerobic environment that breaks down the PRCs in the soil and thereby reduces their concentrations in the soil gas.

Based on VOC concentrations measured in each system's exhaust gas samples, all air emissions were below the NR 406 threshold limits for all VOCs and HAPs. See Tables C-2, C-4, and C-6 for the estimated mass of PCE, HAPs, and VOCs removed by the main SVE system, SVE-5, and SVE-6, respectively, through November 15, 2021.

C2.0 TRENDS IN VOC CONCENTRATIONS AND REMOVAL RATES

Charts showing the total VOC a) concentrations measured in and b) mass removed by SVE-5, SVE-6, and the main SVE system connected to RW-10, RW-11, SVE-4, and SVE-7 are included with this report as Appendix C-2. The following sections provide a summary of the operations for each system during this reporting period and the mass of VOCs removed by each system.

C2.1 Main SVE System – RW-10, RW-11, SVE-4, & SVE-7

Through November 15, 2021, the main SVE system removed approximately 12,991 lbs of VOCs, of which 2,281 lbs (about 18 percent) were PCE. During the 7.5 months that it was operating during this reporting period, the main SVE system removed 1,488 lbs of VOCs, of which 341 lbs (24 percent) were PCE, mostly from SVE-4 and SVE-7. See Tables C-1 and C-2 for the concentrations of specific VOCs measured in the main SVE system's exhaust gas samples and the data used to estimate the mass of VOCs removed by that system, respectively. A graph showing the total VOC concentrations and mass of VOCs removed by the main SVE system since it began venting in July 2016 is shown on the chart in Appendix C-2. As shown on that graph, the rate of VOC removal increased when SVE-4 was brought online in October 2018 and again when SVE-7 was brought online in June 2020.

C2.2 SVE-5 Vent System

Through November 15, 2021, the SVE-5 vent system removed approximately 657 lbs of VOCs, of which 82.5 lbs (13 percent) were PCE. During this reporting period, SVE-5 removed 185 lbs of VOCs, of which 40.1 lbs (22 percent) were PCE. The higher percentage of PCE removed during this reporting period indicates that the PCE source within the capture zone of SVE-5 is relatively large compared to other VOCs in that area. Soil gas monitoring points MP-2 through MP-7 located around the northern, western, and southern perimeter of Warehouse A are screened in the vadose zone and allow air to enter the subsurface, creating an aerobic environment that breaks down the PRCs in the soil, which likely has led to lower overall PRC concentrations in the soil gas. See Tables C-3 and C-4 for the concentrations of specific VOCs measured in the SVE-5 exhaust gas samples and the data used to estimate the mass of VOCs removed by that system. As shown on the graph in Appendix C-2, the rate of VOC removal from SVE-5 has been relatively steady over the past year.

C2.3 SVE-6 Vent System

SVE-6 operated for one month in 2020 before being turned off for the winter. Through November 15, 2021, approximately 53 lbs of VOCs, of which 40.6 lbs (about 77 percent) were PCE, were removed by the vacuum blower connected to SVE-6. Tables C-5 and C-6 present a summary of the VOCs detected in exhaust gas samples collected from and the estimated air emissions of HAPs and VOCs removed by SVE-6, respectively.

SVE-6's estimated emission rates are relatively low compared to the other two SVE systems due to dilution air being added to control the applied vacuum, limit condensate production, and maintain some subsurface flow for VOC mass removal. As shown on the graph in Appendix C-2, the rate of VOC removal from SVE-6 was relatively steady over the past year.

C2.4 Decrease in PCE, HAP, and Total VOC Mass Removal from 2020 to 2021

Overall, the main SVE system removes the bulk of the vapor-phase PCE, HAP, and total VOC mass from unsaturated soils at the site. For example, estimates indicate that the main SVE system removed approximately 81, 88, and 86 percent of the PCE, HAP, and total VOC vapor-phase mass in 2021. Consequently, the relative performance of the main SVE system in 2021 versus 2020 over a similar run time is summarized in the table below.

Mass Removal (lb or percent)			Comments
PCE	HAPs	Total VOCs	
767	2,915	2,979	Mass removal 4/1/20 – 11/9/20
341	1,410	1,488	Mass removal 4/2/21 – 11/15/21
426	1,505	1,491	Decrease from 2020 to 2021 (lb)
56	52	50	Decrease from 2020 to 2021 (%)

The 50 to 56 percent decrease in mass removal indicates that the main SVE system is making progress in decreasing the mass of residual PCE, HAPs, and total VOCs in source area soils. The charts for all three SVE systems document similar mass removal trends.

APPENDIX C-1

TABLES

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	Sample Type, Well(s) Sampled, Date, and Concentration (µg/m ³)					
			Pilot Test Samples ⁽³⁾		SVE Exhaust Gas Samples			
			RW-10	RW-11	RW-11	RW-10 & RW-11		
			2/10/15	2/10/15	8/3/16	9/15/16	10/17/16	12/20/16
Acetone	67-64-1	No	<63,000	<6,000	<47,000	<130,000	110,000	12,000
Chlorobenzene	108-90-7	Both	<6,300	<600	<4,700	<13,000	<4,500	<1,100
Cyclohexane	110-82-7	No	24,000	2,100	23,000	53,000	<9,100	4,800
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<6,300	5,000	<4,700	<13,000	<4,500	<1,100
1,1-Dichloroethane	75-34-3	Both	<6,300	3,800	21,000	<13,000	<4,500	5,700
cis-1,2-Dichloroethene	156-59-2	No	28,000	40,000	120,000	120,000	18,000	17,000
Ethyl acetate	141-78-6	No	140,000	6,100	<9,300	86,000	58,000	3,200
Ethylbenzene	100-41-4	Both	15,000	2,900	14,000	140,000	43,000	9,500
n-Heptane	142-82-5	No	8,200	840	11,000	32,000	6,100	2,300
n-Hexane	110-54-3	Both	<6,300	<600	6,600	<13,000	<4,500	<1,100
Methyl ethyl ketone (2-Butanone)	78-93-3	No	66,000	<6,000	<47,000	<130,000	250,000	14,000
Methylene chloride	75-09-2	Both	13,000	<600	<4,700	55,000	5,000	1,300
n-Nonane	111-84-2	No	<6,300	<600	<4,700	<13,000	<4,500	1,800
n-Octane	111-65-9	No	<6,300	<600	8,500	19,000	5,200	2,600
Tetrachloroethene (PCE)	127-18-4	Both	16,000	2,600	15,000	71,000	24,000	13,000
Tetrahydrofuran	109-99-9	No	<6,300	3,100	<4,700	<13,000	8,400	<1,100
Toluene	108-88-3	Both	910,000	120,000	550,000	2,500,000	860,000	140,000
1,1,1-Trichloroethane	71-55-6	Federal	42,000	13,000	170,000	110,000	32,000	33,000
Trichloroethene	79-01-6	Both	18,000	3,000	32,000	160,000	36,000	14,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	20,000	51,000	240,000	59,000	14,000	40,000
Vinyl chloride	75-01-4	Both	<6,300	9,900	9,600	<13,000	<4,500	<1,100
m&p-Xylene	179601-23-1	Both	46,000	9,100	66,000	510,000	160,000	68,000
o-Xylene	95-47-6	Both	6,300	1,400	19,000	90,000	31,000	19,000
Total HAPs (= sum of detected HAPs)			1,066,300	165,700	903,200	3,636,000	1,191,000	303,500
Total VOCs (= sum of detected VOCs)			1,352,500	273,840	1,305,700	4,005,000	1,660,700	401,200

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10 & RW-11 ⁽⁴⁾					
			3/13/17	5/16/17	6/30/17	11/15/17	2/19/18	6/5/18
Acetone	67-64-1	No	52,000	36,000	36,000	6,300	12,000	15,000
Chlorobenzene	108-90-7	Both	3,700	4,400	4,000	2,100	340	2,000
Cyclohexane	110-82-7	No	<3,700	<2,900	<3,200	<1,200	<560	<1,600
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<1,900	<1,500	<1,600	<580	<280	<730
1,1-Dichloroethane	75-34-3	Both	<1,900	<1,500	<1,600	630	<280	890
cis-1,2-Dichloroethene	156-59-2	No	9,600	7,100	7,700	4,800	1,400	6,100
Ethyl acetate	141-78-6	No	45,000	19,000	<3,200	<1,200	4,000	3,900
Ethylbenzene	100-41-4	Both	25,000	21,000	14,000	6,800	2,500	11,000
n-Heptane	142-82-5	No	3,100	2,800	2,300	960	560	1,400
n-Hexane	110-54-3	Both	<1,900	<1,500	<1,600	<580	<280	<750
d-Limonene	5989-27-5	No	<1,900	<1,500	5,700	<580	<280	<710
Methyl ethyl ketone (2-Butanone)	78-93-3	No	60,000	40,000	22,000	<5,800	6,700	12,000
Methylene chloride	75-09-2	Both	3,100	2,700	2,100	1,800	380	820
n-Nonane	111-84-2	No	<1,900	<1,500	<1,600	<580	<280	780
n-Octane	111-65-9	No	3,000	2,600	2,300	1,300	<280	1,500
Tetrachloroethene (PCE)	127-18-4	Both	23,000	30,000	30,000	20,000	5,500	21,000
Tetrahydrofuran	109-99-9	No	2,900	2,000	1,900	<580	540	790
Toluene	108-88-3	Both	290,000	250,000	210,000	120,000	43,000	110,000
1,1,1-Trichloroethane	71-55-6	Federal	22,000	22,000	20,000	14,000	5,600	15,000
Trichloroethene	79-01-6	Both	33,000	41,000	42,000	15,000	5,500	18,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	10,000	7,600	5,600	4,300	1,800	6,500
1,2,4-Trimethylbenzene	95-63-6	No	<1,900	<1,500	<1,600	<580	<280	750
Vinyl chloride	75-01-4	Both	<1,900	<1,500	<1,600	<580	<280	<730
m&p-Xylene	179601-23-1	Both	89,000	73,000	51,000	35,000	9,300	44,000
o-Xylene	95-47-6	Both	26,000	25,000	19,000	14,000	2,900	19,000
Total HAPs (= sum of detected HAPs)			514,800	469,100	392,100	229,330	75,020	241,710
Total VOCs (= sum of detected VOCs)			700,400	586,200	475,600	246,990	102,020	290,430

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, & SVE-4					
			RW-10 & RW-11 09/06/18	10/02/18	10/03/18	10/04/18	10/12/18	10/24/18
Acetone	67-64-1	No	<13,000	<160,000	<97,000	<130,000	<50,000	<38,000
Chlorobenzene	108-90-7	Both	2,000	<16,000	<9,500	<12,000	<4,900	<3,700
Cyclohexane	110-82-7	No	2,800	<30,000	<18,000	<23,000	<9,300	<7,100
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<1,200	<15,000	<9,400	<12,000	<4,800	<3,700
1,1-Dichloroethane	75-34-3	Both	4,100	<15,000	<9,400	<12,000	<4,800	<3,800
1,1-Dichloroethene	75-35-4	Both	<1,300	22,000	12,000	<13,000	6,500	<3,800
cis-1,2-Dichloroethene	156-59-2	No	17,000	94,000	49,000	51,000	38,000	17,000
Ethyl acetate	141-78-6	No	<2,600	<33,000	<20,000	<26,000	<10,000	<7,800
Ethylbenzene	100-41-4	Both	10,000	<15,000	<9,400	<12,000	<4,800	<3,700
n-Heptane	142-82-5	No	2,700	<16,000	<9,700	<13,000	<5,000	<3,800
n-Hexane	110-54-3	Both	<1,300	<16,000	<9,700	<13,000	<5,000	<3,800
d-Limonene	5989-27-5	No	<1,200	<15,000	<9,200	<12,000	<4,700	<3,600
Methyl ethyl ketone (2-Butanone)	78-93-3	No	13,000	<30,000	<18,000	<23,000	<9,300	<7,100
Methylene chloride	75-09-2	Both	<1,300	<16,000	10,000	14,000	13,000	5,700
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	2,700	<16,000	<9,500	<12,000	<4,900	<3,700
n-Nonane	111-84-2	No	2,600	<16,000	<9,700	<13,000	<5,000	<3,800
n-Octane	111-65-9	No	3,700	<16,000	<9,700	<13,000	<5,000	<3,800
Tetrachloroethene	127-18-4	Both	40,000	3,200,000	1,700,000	1,800,000	1,200,000	590,000
Tetrahydrofuran	109-99-9	No	<1,300	<16,000	<9,500	<12,000	<4,900	<3,700
Toluene	108-88-3	Both	170,000	99,000	55,000	67,000	64,000	29,000
1,1,1-Trichloroethane	71-55-6	Federal	33,000	1,100,000	620,000	630,000	380,000	160,000
1,1,2-Trichloroethane	79-00-5	Both	<1,300	<16,000	<9,700	<13,000	12,000	5,200
Trichloroethene	79-01-6	Both	28,000	1,600,000	850,000	940,000	630,000	250,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	19,000	33,000	21,000	22,000	14,000	6,600
1,2,4-Trimethylbenzene	95-63-6	No	<1,300	<16,000	<9,500	<12,000	<4,900	<3,700
Vinyl chloride	75-01-4	Both	1,600	<16,000	<9,500	<12,000	<4,900	<3,900
m&p-Xylene	179601-23-1	Both	85,000	46,000	24,000	29,000	30,000	14,000
o-Xylene	95-47-6	Both	36,000	19,000	10,000	<12,000	15,000	6,600
Total HAPs (= sum of detected HAPs)			412,400	6,086,000	3,281,000	3,480,000	2,350,500	1,060,500
Total VOCs (= sum of detected VOCs)			473,200	6,213,000	3,351,000	3,553,000	2,402,500	1,084,100

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, & SVE-4 ⁽⁵⁾					
			10/31/18	3/27/19	4/4/19	5/7/19	6/11/19	7/1/19
Acetone	67-64-1	No	<40,000	<710	<2,500	<14,000	<16,000	<15,000
Chlorobenzene	108-90-7	Both	<3,900	730	3,100	<1,400	<1,600	<1,500
Cyclohexane	110-82-7	No	<7,400	200	780	6,800	<3,000	<2,800
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<3,800	<68	<240	<1,400	<1,500	<1,500
1,1-Dichloroethane	75-34-3	Both	<4,000	83	2,100	1,700	2,000	3,000
1,1-Dichloroethene	75-35-4	Both	<4,000	<71	3,500	3,700	3,000	4,000
cis-1,2-Dichloroethene	156-59-2	No	21,000	560	21,000	14,000	15,000	20,000
1,2-Dichloropropane	78-87-5	Both	<4,000	<71	520	<1,400	<1,600	<1,500
Ethyl acetate	141-78-6	No	<8,100	1,900	<500	<2,900	<3,300	<3,100
Ethylbenzene	100-41-4	Both	<3,800	660	3,600	<1,400	<1,500	<1,500
n-Heptane	142-82-5	No	<4,000	270	700	3,300	<1,600	<1,500
n-Hexane	110-54-3	Both	<4,000	<71	<250	5,900	<1,600	<1,500
d-Limonene	5989-27-5	No	<3,800	<67	<230	<1,400	<1,500	<1,400
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<7,400	<130	560	<2,700	<3,000	<2,800
Methyl tert butyl ether	1634-04-4	Both	<4,000	<71	<250	<1,400	<1,600	13,000
Methylene chloride	75-09-2	Both	7,000	1,600	160,000	43,000	12,000	6,000
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<3,900	<69	<240	<1,400	<1,600	<1,500
n-Nonane	111-84-2	No	<4,000	<71	370	<1,400	<1,600	<1,500
n-Octane	111-65-9	No	<4,000	120	600	<1,400	<1,600	<1,500
Tetrachloroethene (PCE)	127-18-4	Both	730,000	3,000	270,000	280,000	370,000	340,000
Tetrahydrofuran (THF)	109-99-9	No	<3,900	<69	<240	<1,400	<1,600	<1,500
Toluene	108-88-3	Both	40,000	9,700	38,000	13,000	8,600	13,000
1,1,1-Trichloroethane	71-55-6	Federal	210,000	2,100	140,000	160,000	180,000	250,000
1,1,2-Trichloroethane	79-00-5	Both	6,700	<71	5,200	4,000	4,900	4,700
Trichloroethene (TCE)	79-01-6	Both	330,000	2,000	200,000	220,000	250,000	270,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	8,200	590	9,100	6,700	6,800	10,000
1,2,4-Trimethylbenzene	95-63-6	No	<3,900	<69	<240	<1,400	<1,600	<1,500
Vinyl chloride	75-01-4	Both	<3,900	<69	<240	<1,400	<1,600	<1,500
m&p-Xylene	179601-23-1	Both	19,000	3,800	20,000	3,800	3,600	5,600
o-Xylene	95-47-6	Both	8,600	1,000	12,000	4,400	6,000	6,600
Total HAPs (= sum of detected HAPs)			1,351,300	24,673	858,020	739,500	840,100	915,900
Total VOCs (= sum of detected VOCs)			1,380,500	28,313	891,130	770,300	861,900	945,900

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, & SVE-4					
			8/15/19	9/30/19	10/17/19	11/4/19	12/30/19	1/7/20
Acetone	67-64-1	No	<20,000	<15,000	<7,200	<5,800	<9,700	<7,100
Chlorobenzene	108-90-7	Both	<2,000	<1,500	1,000	1,200	2,100	1,800
Cyclohexane	110-82-7	No	<3,700	<2,800	<1,500	<1,200	<2,000	<1,500
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<1,900	<1,500	<720	<580	<970	<710
1,1-Dichloroethane	75-34-3	Both	2,600	1,600	1,400	940	1,900	1,500
1,1-Dichloroethene	75-35-4	Both	2,900	<1,500	880	810	2,200	2,000
cis-1,2-Dichloroethene	156-59-2	No	16,000	10,000	7,800	5,100	11,000	9,000
trans-1,2-Dichloroethene	156-60-5	No	<2,000	<1,500	<730	2,500	2,100	1,500
1,2-Dichloropropane	78-87-5	Both	<2,000	<1,500	<730	<590	<990	<720
Ethyl acetate	141-78-6	No	<4,100	<3,100	<1,500	2,900	150,000	410,000
Ethylbenzene	100-41-4	Both	<1,900	<1,500	<730	<590	<990	<720
n-Heptane	142-82-5	No	<2,000	<1,500	<730	<590	<990	<720
n-Hexane	110-54-3	Both	<2,000	<1,500	<730	<590	<990	<720
d-Limonene	5989-27-5	No	<1,900	<1,400	<730	<590	<990	<720
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<3,700	<2,800	<1,500	<1,200	<2,000	<1,500
Methyl tert butyl ether	1634-04-4	Both	2,700	<1,500	<730	<590	<990	<720
Methylene chloride	75-09-2	Both	2,700	<1,500	6,800	94,000	160,000	90,000
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<2,000	<1,500	<720	<580	<970	<710
n-Nonane	111-84-2	No	<2,000	<1,500	<730	<590	<990	<720
n-Octane	111-65-9	No	<2,000	<1,500	<730	<590	<990	<720
Tetrachloroethene (PCE)	127-18-4	Both	380,000	220,000	130,000	110,000	120,000	110,000
Tetrahydrofuran (THF)	109-99-9	No	<2,000	<1,500	<740	<600	<1,000	<740
Toluene	108-88-3	Both	15,000	8,100	5,100	3,600	5,600	6,200
1,1,1-Trichloroethane	71-55-6	Federal	190,000	120,000	84,000	48,000	84,000	74,000
1,1,2-Trichloroethane	79-00-5	Both	4,600	2,400	1,900	1,200	1,300	1,100
Trichloroethene (TCE)	79-01-6	Both	240,000	150,000	110,000	91,000	110,000	110,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	7,900	5,100	4,300	2,500	6,700	6,000
1,2,4-Trimethylbenzene	95-63-6	No	<2,000	<1,500	<730	<590	<990	<720
Vinyl chloride	75-01-4	Both	<2,000	<1,500	<730	<590	<990	<720
m&p-Xylene	179601-23-1	Both	9,100	5,000	3,800	1,300	2,100	1,700
o-Xylene	95-47-6	Both	9,500	4,200	4,600	2,000	3,300	3,400
Total HAPs (= sum of detected HAPs)			859,100	511,300	349,480	354,050	492,500	401,700
Total VOCs (= sum of detected VOCs)			883,000	526,400	361,580	367,050	662,300	828,200

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration ($\mu\text{g}/\text{m}^3$)					
			RW-10, RW-11, SVE-4, & SVE-7 (SVE-7 startup on 6/1/20)					
			4/22/20	5/12/20	6/1/20	6/2/20	6/3/20	6/8/20
Acetone	67-64-1	No	<8,000	<8,300	<82,000	<80,000	<110,000	<76,000
Chlorobenzene	108-90-7	Both	110,000	86,000	16,000	27,000	16,000	25,000
Cyclohexane	110-82-7	No	6,200	<1,700	<17,000	<17,000	<23,000	<16,000
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<800	<830	<8,200	<8,000	<11,000	<7,600
1,1-Dichloroethane	75-34-3	Both	930	870	11,000	13,000	14,000	13,000
1,1-Dichloroethene	75-35-4	Both	910	850	15,000	18,000	18,000	13,000
cis-1,2-Dichloroethene	156-59-2	No	4,500	4,400	14,000	18,000	17,000	13,000
trans-1,2-Dichloroethene	156-60-5	No	2,100	1,300	<8,400	<8,100	<11,000	<7,700
1,2-Dichloropropane	78-87-5	Both	<820	<840	<8,400	<8,100	<11,000	<7,700
Ethanol	64-17-5	No	10,000	<8,100	<81,000	<78,000	<110,000	<74,000
Ethyl acetate	141-78-6	No	<1,700	<1,700	<17,000	<17,000	<23,000	<16,000
Ethylbenzene	100-41-4	Both	<820	<840	<8,400	<8,100	<11,000	<7,700
n-Heptane	142-82-5	No	820	<840	<8,400	<8,100	<11,000	<7,700
n-Hexane	110-54-3	Both	2,600	<840	<8,400	<8,100	<11,000	<7,700
d-Limonene	5989-27-5	No	<820	<840	<8,400	<8,100	<11,000	<7,700
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<1,700	<1,700	<17,000	<17,000	<23,000	<16,000
Methyl tert butyl ether	1634-04-4	Both	<820	<840	<8,400	<8,100	<11,000	<7,700
Methylene chloride	75-09-2	Both	130,000	52,000	28,000	29,000	26,000	15,000
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<800	<830	<8,200	<8,000	<11,000	<7,600
n-Nonane	111-84-2	No	<820	<840	<8,400	<8,100	<11,000	<7,700
n-Octane	111-65-9	No	<820	<840	<8,400	<8,100	<11,000	<7,700
Propene	115-07-1	No	1,000	<830	<8,200	<8,000	<11,000	<7,600
Tetrachloroethene (PCE)	127-18-4	Both	79,000	110,000	400,000	560,000	500,000	610,000
Tetrahydrofuran (THF)	109-99-9	No	<830	<860	<8,500	<8,300	<11,000	<7,900
Toluene	108-88-3	Both	2,200	1,400	<8,400	<8,100	<11,000	<7,700
1,1,1-Trichloroethane	71-55-6	Federal	54,000	58,000	1,600,000	2,200,000	2,000,000	1,100,000
1,1,2-Trichloroethane	79-00-5	Both	<820	1,100	<8,400	<8,100	<11,000	<7,700
Trichloroethene (TCE)	79-01-6	Both	83,000	95,000	860,000	1,100,000	1,100,000	980,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	3,200	3,100	37,000	41,000	42,000	32,000
1,2,4-Trimethylbenzene	95-63-6	No	<820	<840	<8,400	<8,100	<11,000	<7,700
Vinyl chloride	75-01-4	Both	<820	<840	<8,400	<8,100	<11,000	<7,700
m&p-Xylene	179601-23-1	Both	<1,700	<1,700	<17,000	<17,000	<23,000	<16,000
o-Xylene	95-47-6	Both	<820	<840	<8,400	<8,100	<11,000	<7,700
Total HAPs (= sum of detected HAPs)			462,640	405,220	2,930,000	3,947,000	3,674,000	2,756,000
Total VOCs (= sum of detected VOCs)			490,460	414,020	2,981,000	4,006,000	3,733,000	2,801,000

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, SVE-4, & SVE-7 ⁽⁶⁾					
			6/15/20	6/22/20	7/13/20	8/19/20	9/15/20	10/21/20
Acetone	67-64-1	No	<75,000	<77,000	<13,000	<26,000	<5,200	<39,000
Chlorobenzene	108-90-7	Both	21,000	17,000	15,000	<2,600	<520	<3,900
Cyclohexane	110-82-7	No	<16,000	<16,000	<2,600	<5,400	2,000	<7,600
1,2-Dichlorobenzene	95-50-1	State	<7,600	<7,800	<1,300	<2,600	570	<4,000
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<7,500	<7,700	<1,300	<2,600	<520	<3,900
1,1-Dichloroethane	75-34-3	Both	9,900	11,000	11,000	6,800	6,700	5,800
1,1-Dichloroethene	75-35-4	Both	9,200	9,700	6,800	5,800	5,100	<3,900
cis-1,2-Dichloroethene	156-59-2	No	9,300	13,000	16,000	14,000	17,000	12,000
trans-1,2-Dichloroethene	156-60-5	No	<7,600	<7,800	<1,300	<2,600	<530	<4,000
1,2-Dichloropropane	78-87-5	Both	<7,600	<7,800	2,500	<2,600	1,400	<3,900
Ethanol	64-17-5	No	<73,000	<75,000	<12,000	<25,000	<5,300	<40,000
Ethyl acetate	141-78-6	No	<16,000	<16,000	<2,600	<5,400	<1,000	<7,600
Ethylbenzene	100-41-4	Both	<7,600	<7,800	<1,300	<2,600	860	<3,900
n-Heptane	142-82-5	No	<7,600	<7,800	<1,300	<2,600	1,100	<3,900
n-Hexane	110-54-3	Both	<7,600	<7,800	<1,300	<2,600	650	<3,900
d-Limonene	5989-27-5	No	<7,600	<7,800	<1,300	<2,600	<520	<3,900
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<16,000	<16,000	<2,600	<5,400	<1,000	<7,600
Methyl tert butyl ether	1634-04-4	Both	<7,600	<7,800	<1,300	<2,600	<520	<3,900
Methylene chloride	75-09-2	Both	9,300	9,700	6,700	4,100	3,800	<3,900
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<7,500	<7,700	<1,300	<2,600	<1,000	<7,600
n-Nonane	111-84-2	No	<7,600	<7,800	<1,300	<2,600	1,000	<4,000
n-Octane	111-65-9	No	<7,600	<7,800	<1,300	<2,600	1,200	<3,900
Propene	115-07-1	No	<7,500	<7,700	<1,300	<2,600	<520	<3,900
Tetrachloroethene (PCE)	127-18-4	Both	480,000	610,000	460,000	500,000	530,000	420,000
Tetrahydrofuran (THF)	109-99-9	No	<7,800	<8,000	<1,300	<2,700	<1,000	<7,600
Toluene	108-88-3	Both	<7,600	<7,800	4,900	7,800	22,000	13,000
1,1,1-Trichloroethane	71-55-6	Federal	1,200,000	1,300,000	780,000	610,000	440,000	460,000
1,1,2-Trichloroethane	79-00-5	Both	<7,600	<7,800	4,100	3,000	2,800	<3,900
Trichloroethene (TCE)	79-01-6	Both	750,000	900,000	660,000	480,000	390,000	470,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	23,000	26,000	18,000	17,000	17,000	16,000
1,2,4-Trimethylbenzene	95-63-6	No	<7,600	<7,800	<1,300	<2,600	<520	<3,900
Vinyl chloride	75-01-4	Both	<7,600	<7,800	<1,300	<2,600	1,100	<4,000
m&p-Xylene	179601-23-1	Both	<16,000	<16,000	<2,600	<5,400	11,000	<7,600
o-Xylene	95-47-6	Both	<7,600	<7,800	4,500	5,600	9,600	7,400
Total HAPs (= sum of detected HAPs)			2,479,400	2,857,400	1,955,500	1,623,100	1,425,580	1,376,200
Total VOCs (= sum of detected VOCs)			2,511,700	2,896,400	1,989,500	1,654,100	1,464,880	1,404,200

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, SVE-4, & SVE-7 ⁽⁷⁾					
			11/9/20	4/9/21	5/28/21	6/29/21	7/29/21	8/27/21
Acetone	67-64-1	No	<28,000	<7,200	<14,000	<11,000	<8,100	<5,300
Chlorobenzene	108-90-7	Both	<2,800	4,400	<1,400	<1,100	<810	4,900
Cyclohexane	110-82-7	No	<5,500	5,100	2,900	3,900	<1,700	<1,100
1,2-Dichlorobenzene	95-50-1	State	<2,900	<730	<1,500	<1,100	<820	<540
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<2,800	<720	<1,400	<1,100	<820	<540
1,1-Dichloroethane	75-34-3	Both	5,800	7,700	4,300	4,200	4,500	2,000
1,1-Dichloroethene	75-35-4	Both	3,400	5,800	2,500	1,400	1,900	1,800
cis-1,2-Dichloroethene	156-59-2	No	10,000	28,000	15,000	16,000	17,000	12,000
trans-1,2-Dichloroethene	156-60-5	No	<2,900	<730	<1,500	<1,100	<820	<540
1,2-Dichloropropane	78-87-5	Both	<2,800	950	<1,400	<1,100	<780	<510
Ethanol	64-17-5	No	<29,000	<7,300	<15,000	<11,000	<7,800	<5,100
Ethyl acetate	141-78-6	No	<5,500	<1,400	<2,700	<2,100	<3,300	<2,200
Ethylbenzene	100-41-4	Both	5,200	3,500	5,200	9,800	11,000	8,500
n-Heptane	142-82-5	No	<2,800	2,600	1,800	2,400	3,000	1,500
n-Hexane	110-54-3	Both	<2,800	1,500	<1,400	<1,100	<820	<540
d-Limonene	5989-27-5	No	12,000	<720	<1,400	<1,100	<780	<510
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<5,500	<1,400	<2,700	<2,100	<1,600	<1,000
Methyl tert butyl ether	1634-04-4	Both	<2,800	<720	<1,400	<1,100	<820	<540
Methylene chloride	75-09-2	Both	4,200	9,000	21,000	3,300	2,000	2,200
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<5,500	<1,400	<2,700	<2,100	<1,700	<1,100
n-Nonane	111-84-2	No	<2,900	1,100	<1,500	1,600	1,600	780
n-Octane	111-65-9	No	<2,800	2,300	2,100	3,000	2,900	1,600
alpha-Pinene	80-56-8	No	21,000	<730	<1,500	<1,100	<840	<550
Propene	115-07-1	No	3,700	<720	<1,400	<1,100	<810	<530
Tetrachloroethene (PCE)	127-18-4	Both	390,000	200,000	260,000	140,000	160,000	130,000
Tetrahydrofuran (THF)	109-99-9	No	<5,500	<1,400	<2,700	<2,100	<1,600	<1,000
Toluene	108-88-3	Both	12,000	82,000	120,000	150,000	170,000	110,000
1,1,1-Trichloroethane	71-55-6	Federal	490,000	410,000	230,000	140,000	150,000	99,000
1,1,2-Trichloroethane	79-00-5	Both	<2,800	1,400	<1,400	<1,100	<810	790
Trichloroethene (TCE)	79-01-6	Both	450,000	320,000	240,000	130,000	130,000	100,000
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	12,000	30,000	17,000	15,000	14,000	6,300
1,2,4-Trimethylbenzene	95-63-6	No	<2,800	<720	<1,400	<1,100	890	<530
Vinyl chloride	75-01-4	Both	<2,900	2,400	<1,500	<1,100	<810	<530
m&p-Xylene	179601-23-1	Both	10,000	24,000	29,000	50,000	58,000	38,000
o-Xylene	95-47-6	Both	10,000	9,500	9,900	17,000	20,000	11,000
Total HAPs (= sum of detected HAPs)			1,380,600	1,082,150	921,900	645,700	707,400	508,190
Total VOCs (= sum of detected VOCs)			1,439,300	1,151,250	960,700	687,600	746,790	530,370

TABLE C-1

SUMMARY OF VOCs DETECTED IN SAMPLES COLLECTED FROM THE MAIN SVE SYSTEM (FEB 2015 - NOV 2021)

Detected Compounds ⁽¹⁾	CAS #	Federal/ State HAP ⁽²⁾	SVE Exhaust Gas Sample Wells, Date, and Concentration (µg/m ³)					
			RW-10, RW-11, SVE-4, & SVE-7					
			9/30/21	10/29/21	11/15/21			
Acetone	67-64-1	No	<8,200	<7,900	<5,700			
Chlorobenzene	108-90-7	Both	<820	<790	1,300			
Cyclohexane	110-82-7	No	<1,700	<1,700	<1,200			
1,2-Dichlorobenzene	95-50-1	State	<830	<800	<580			
Dichlorodifluoromethane (CFC 12)	75-71-8	No	<830	<800	<580			
1,1-Dichloroethane	75-34-3	Both	2,700	2,000	2,200			
1,1-Dichloroethene	75-35-4	Both	1,800	1,500	1,500			
cis-1,2-Dichloroethene	156-59-2	No	16,000	12,000	10,000			
trans-1,2-Dichloroethene	156-60-5	No	<830	<800	<580			
1,2-Dichloropropane	78-87-5	Both	<790	<760	<540			
Ethanol	64-17-5	No	<7,900	<7,600	<5,400			
Ethyl acetate	141-78-6	No	<3,300	<3,200	<2,300			
Ethylbenzene	100-41-4	Both	5,900	2,600	1,800			
n-Heptane	142-82-5	No	1,100	<800	<580			
n-Hexane	110-54-3	Both	<830	<800	<580			
d-Limonene	5989-27-5	No	<790	<760	<540			
Methyl ethyl ketone (2-Butanone)	78-93-3	No	<1,600	<1,500	<1,100			
Methyl tert butyl ether	1634-04-4	Both	<830	<800	<580			
Methylene chloride	75-09-2	Both	1,800	1,200	1,000			
4-Methyl-2-pentanone (MIBK)	108-10-1	Both	<1,700	<1,700	<1,200			
n-Nonane	111-84-2	No	880	<790	<570			
n-Octane	111-65-9	No	1,500	<800	740			
alpha-Pinene	80-56-8	No	<850	<820	<590			
2-Propanol (Isopropyl alcohol)	67-63-0	No	5,800	<1,500	<1,100			
Propene	115-07-1	No	1,900	<790	<570			
Tetrachloroethene (PCE)	127-18-4	Both	140,000	130,000	89,000			
Tetrahydrofuran (THF)	109-99-9	No	<1,600	<1,500	<1,100			
Toluene	108-88-3	Both	84,000	39,000	28,000			
1,1,1-Trichloroethane	71-55-6	Federal	110,000	96,000	76,000			
1,1,2-Trichloroethane	79-00-5	Both	890	<790	<570			
Trichloroethene (TCE)	79-01-6	Both	120,000	100,000	75,000			
Trichlorotrifluoroethane (CFC 113)	76-13-1	No	9,600	8,100	8,900			
1,2,4-Trimethylbenzene	95-63-6	No	<820	<790	<570			
Vinyl chloride	75-01-4	Both	<820	<790	<570			
m&p-Xylene	179601-23-1	Both	36,000	18,000	13,000			
o-Xylene	95-47-6	Both	11,000	6,500	4,300			
Total HAPs (= sum of detected HAPs)			514,090	396,800	293,100			
Total VOCs (= sum of detected VOCs)			550,870	416,900	312,740			

NOTES:

Concentrations are in micrograms per cubic meter (µg/m³).

February 2015 samples were collected at the end of the pilot test on RW-10 and after the pilot test had been completed on RW-11.

FOOTNOTES:

- (1) Samples analyzed for VOCs using EPA Method TO-15. Only VOCs detected in one or more samples are listed in this table.
- (2) HAP listing = "Both" if VOC is on USEPA's Initial List of Hazardous Air Pollutants with Modifications webpage and in NR 445.07 Table A, WAC. HAP listing = "Federal" or "State" if compound is either on the USEPA list or in Table A only, respectively.
- (3) The 2/10/15 results = soil gas data since each sample was collected from a specific well instead of the SVE vacuum blower exhaust gas.
- (4) The 2/19/18 exhaust gas sample was collected when there was an opening in piping to RW-11 (due to a missing valve) that introduced fresh air, diluted the sample, and lowered VOC concentrations. The opening in the piping to RW-11 was plugged on 2/20/18.
- (5) The 3/27/19 exhaust gas sample was collected when there was a system leak in the piping manifold to RW-11 that introduced fresh air, diluted the sample, and lowered VOC concentrations. The system leak was repaired after the sample was collected on 3/27/19.
- (6) The 9/15/20 exhaust gas samples was received on 10/28/20 and analyzed on 11/5/20, past its 30-day holding time.
- (7) The 7/29/21 exhaust gas samples was received on 9/21/21 and analyzed on 9/24/21, past its 30-day holding time.

WRR ENVIRONMENTAL SERVICES, INC.
EAU CLAIRE, WISCONSIN

TABLE C-2

ESTIMATED AIR EMISSIONS OF PCE, TOTAL HAPs, AND TOTAL VOCs FROM THE MAIN SVE SYSTEM

Date and Time	Elapsed Time (hr)	Run Time ⁽¹⁾ (hr)	Meter Reading (hr)	Vacuum (inch wc)		Temp (°F)	Run Time (%)	Dual-Phase/Vent Well(s)				Flow Rate		Tetrachloroethene (PCE)				Total HAPs			Total VOCs				FN
				Blower Inlet	System Manifold			Online				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (lb/yr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)	
								RW-10	RW-11	SVE-4	SVE-7														
7/6/16 15:00		0		50		220			x			240	14,400	15,000	0.0135	na	0.0	882,200	0.79	0	1,305,700	1.17	na	0	(2)
7/22/16 12:45		382		50		220	100		x			240	14,400	15,000	0.0135	na	5.1	882,200	0.79	303	1,305,700	1.17	na	448	(2)
8/3/16 8:20	0.0	382	0.0	50		220			x			240	14,400	15,000	0.0135	na	5.1	882,200	0.79	303	1,305,700	1.17	na	448	
9/13/16 9:00	984.7	1,366.4	552.3	78	90	220	100	x	x			162	9,696	71,000	0.0430	na	18.4	3,636,000	2.2	1,083	4,005,000	2.4	na	1,603	(3)
9/15/16 9:45	48.8	1,415.2		78	96	230	100	x	x			162	9,696	71,000	0.0430	na	20.5	3,636,000	2.2	1,190	4,005,000	2.4	na	1,721	
10/17/16 13:00	771.2	2,186.4	1,322.5	96	96	246	100	x	x			111	6,672	24,000	0.0100	na	40.9	1,191,000	0.50	2,230	1,660,700	0.69	na	2,922	
12/20/16 12:30	1,534.5	3,723.6	2,859.7	90	90	266	100	x	x			128	7,680	13,000	0.0062	na	53.4	297,800	0.14	2,721	401,200	0.19	na	3,602	(4)
3/13/17 14:00	1,992.5	5,698.6	4,834.7	100	98	252	99	x	x			100	6,000	23,000	0.0086	na	68.1	514,800	0.19	3,052	700,400	0.26	na	4,050	
5/16/17 10:35	1,532.6	7,246.4	6,382.5	100	98	268	101	x	x			100	6,000	30,000	0.0112	na	83.4	464,700	0.17	3,336	586,200	0.22	na	4,423	
6/30/17 8:15	1,077.7	8,318.2	7,454.3	98	98	258	99	x	x			106	6,336	30,000	0.0119	na	95.8	388,100	0.15	3,511	475,600	0.19	na	4,642	
11/15/17 9:15	3,313.0	11,613.3	10,749.4	80	100	260	99	x	x			156	9,360	20,000	0.0117	88.0	135	229,330	0.13	3,985	246,990	0.14	0.98	5,189	
2/5/18 9:00	1,967.8	13,581.1	12,717.2	80	60	190	100	x	x			156	9,360	5,500	0.0032	95.9	157.6	75,020	0.044	4,248	102,020	0.060	0.81	5,473	(5)
2/19/18 9:00	336.0	13,915.1	13,051.2	80	60	190	99	x	x			156	9,360	5,500	0.0032	94.5	158.6	75,020	0.044	4,263	102,020	0.060	0.78	5,493	(6)
2/20/18 9:00	24.0	13,939.1	13,075.2	100	100	270	100	x	x			100	6,000	21,000	0.0079	94.4	158.7	241,710	0.090	4,264	290,430	0.11	0.78	5,494	(7)
6/5/18 14:20	2,525.3	16,464.8	15,600.9	100	100	270	100	x	x			100	6,000	21,000	0.0079	89.6	179	241,710	0.090	4,493	290,430	0.11	0.62	5,769	
9/6/18 15:36	2,233.3	18,583.2	17,719.3	100	100	268	95	x	x			100	6,000	40,000	0.0150	87.8	203	412,400	0.15	4,752	473,200	0.18	0.58	6,072	
10/1/18 9:20	593.7	19,177.0	18,313.1	95	95	240	100	x	x	x		114	6,840	3,200,000	1.3658	89.7	212	6,086,000	2.6	4,844	6,213,000	2.7	0.58	6,177	(8)
10/2/18 9:00	23.7	19,200.7	18,336.8	94	94	240	100	x	x	x		117	7,008	3,200,000	1.3994	122	244	6,086,000	2.7	4,906	6,213,000	2.7	0.61	6,240	
10/3/18 12:50	27.8	19,228.5	18,364.6	94	94	250	100	x	x	x		117	7,008	1,700,000	0.7434	152	274	3,281,000	1.43	4,963	3,351,000	1.47	0.64	6,299	
10/4/18 8:15	19.4	19,247.9	18,384.0	96	96	235	100	x	x	x		111	6,672	1,800,000	0.7494	166	289	3,480,000	1.45	4,991	3,553,000	1.48	0.65	6,327	(9)
10/12/18 8:15	192.0	19,439.9	18,576.0	96	96	233	100	x	x	x		111	6,672	1,200,000	0.4996	284	409	2,350,500	0.98	5,224	2,402,500	1.00	0.76	6,565	
10/15/18 16:30	80.3	19,520.2	18,656.3	100	100	268	100	x	x			100	6,000	40,000	0.0150	323	449	412,400	0.15	5,302	473,200	0.18	0.79	6,645	(10)
10/18/18 8:50	64.3	19,584.5	18,720.6	96	96	233	100	x	x	x		111	6,672	1,200,000	0.4996	323	450	2,350,500	0.98	5,312	2,402,500	1.00	0.79	6,657	(11)
10/24/18 14:15	149.4	19,733.9	18,870.0	98	90	244	100	x	x	x		106	6,336	590,000	0.2333	376	504	1,060,500	0.42	5,417	1,084,100	0.43	0.83	6,764	
10/31/18 13:15	167.0	19,900.9	19,037.0	98	90	252	100	x	x	x		106	6,336	730,000	0.2886	418	548	1,351,300	0.53	5,496	1,380,500	0.55	0.86	6,845	
11/1/18 13:55	24.7	19,925.4	19,061.5	98	90	252	99	x	x	x		106	6,336	730,000	0.2886	424	555	1,351,300	0.53	5,510	1,380,500	0.55	0.86	6,858	(12)
3/19/19 13:00	na	19,925.4	19,061.5	34	34	160	0.0	x		x		285	17,088	3,000	0.0032	391	555	24,673	0.026	5,510	28,313	0.030	0.65	6,858	(13)
3/27/19 6:20	185.3	20,104.7	19,240.8	34	34	160	97	x		x		285	17,088	3,000	0.0032	390	556	24,673	0.026	5,514	28,313	0.030	0.64	6,864	(14)
4/4/19 6:50	192.5	20,297.2	19,433.3	98	98	238	100	x	x	x		106	6,336	270,000	0.1067	409	576	857,500	0.339	5,580	891,130	0.352	0.66	6,932	
5/7/19 7:15	792.4	21,089.7	20,225.8	100	100	260	100	x	x	x		100	6,000	280,000	0.1048	487	660	739,500	0.277	5,824	770,300	0.288	0.75	7,185	
6/11/19 6:50	839.6	21,929.1	21,065.2	98	98	252	100	x	x	x		106	6,336	370,000	0.1463	585	765	840,100	0.332	6,079	861,900	0.341	0.83	7,450	
7/1/19 12:50	486.0	22,410.3	21,546.4	98	98	272	99	x	x	x		106	6,336	340,000	0.1344	648	833	915,900	0.362	6,246	945,900	0.374	0.88	7,621	
8/15/19 14:40	1,081.8	23,483.9	22,620.0	99	99	278	99	x	x	x		103	6,168	380,000	0.1463	787	984	859,100	0.331	6,618	883,000	0.340	1.00	8,005	
9/30/19 6:30	1,095.8	24,603.6	23,739.7	100	100	260	102	x	x	x		100	6,000	220,000	0.0824	900	1,112	511,300	0.191	6,910	526,400	0.197	1.07	8,305	(15)
10/17/19 15:30	417.0	24,996.6	24,132.7	100	100	276	94	x	x	x		100	6,000	130,000	0.0487	688	1,137	349,480	0.131	6,974	361,580	0.135	0.86	8,371	
11/4/19 7:50	424.3	25,422.0	24,558.1	100	100	260	100	x	x	x		100	6,000	110,000	0.0412	601	1,156	354,050	0.133	7,030	367,050	0.137	0.79	8,429	(16)
12/23/19 14:10	na	25,422.2	24,558.3	100	100	nm	0.0	x	x	x		100	6,000	120,000	0.0449	601	1,156	492,500	0.184	7,030	662,300	0.248	0.79	8,429	(16)

TABLE C-2

ESTIMATED AIR EMISSIONS OF PCE, TOTAL HAPs, AND TOTAL VOCs FROM THE MAIN SVE SYSTEM

Date and Time	Elapsed Time (hr)	Run Time ⁽¹⁾ (hr)	Meter Reading (hr)	Vacuum (inch wc)		Temp (°F)	Run Time (%)	Dual-Phase/Vent Well(s)				Flow Rate		Tetrachloroethene (PCE)				Total HAPs			Total VOCs				FN										
				Blower Inlet	System Manifold			Online				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (lb/yr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)											
								RW-10	RW-11	SVE-4	SVE-7																								
12/30/19 12:30	166.3	25,588.5	24,724.6	100	100	266	100	x	x	x		100	6,000	120,000	0.0449	609	1,164	492,500	0.184	7,060	662,300	0.248	0.81	8,470											
1/7/20 14:10	193.7	25,782.1	24,918.2	100	100	266	100	x	x	x		100	6,000	110,000	0.0412	617	1,172	401,700	0.150	7,093	828,200	0.310	0.83	8,524	(17)										
4/1/20 6:05	na	25,782.1	24,918.2	99	99	260	0.0	x	x	x		103	6,168	79,000	0.0304	604	1,172	462,640	0.178	7,093	490,460	0.189	0.81	8,524	(17)										
4/22/20 9:15	507.2	26,288.9	25,425.0	99	99	260	100	x	x	x		103	6,168	79,000	0.0304	566	1,188	462,640	0.178	7,183	490,460	0.189	0.77	8,620	(18)										
5/12/20 13:40	484.4	26,773.4	25,909.5	100	99	255	100	x	x	x		100	6,000	110,000	0.0412	529	1,205	405,220	0.152	7,263	414,020	0.155	0.74	8,703											
6/1/20 9:30	475.8	27,249.3	26,385.4	100	nm	260	100	x	x	x	x	100	6,000	400,000	0.1498	489.0	1,225	2,930,000	1.097	7,335	2,981,000	1.116	0.701	8,777	(19)										
6/1/20 18:15	8.7	27,258.0	26,394.1	98	nm	268	99	x	x	x	x	106	6,336	400,000	0.1581	489.3	1,226	2,930,000	1.158	7,345	2,981,000	1.179	0.704	8,787											
6/2/20 16:30	22.3	27,280.1	26,416.2	94	nm	266	99	x	x	x	x	117	7,008	560,000	0.2449	491	1,230	3,947,000	1.726	7,377	4,006,000	1.752	0.72	8,819											
6/3/20 18:00	25.5	27,305.9	26,442.0	94	nm	266	101	x	x	x	x	117	7,008	500,000	0.2186	494	1,236	3,674,000	1.607	7,420	3,733,000	1.632	0.73	8,863											
6/8/20 14:25	116.4	27,422.1	26,558.2	94	nm	272	100	x	x	x	x	117	7,008	610,000	0.2668	507	1,265	2,756,000	1.205	7,583	2,801,000	1.225	0.80	9,029											
6/15/20 15:40	169.3	27,591.0	26,727.1	100	nm	262	100	x	x	x	x	100	6,000	480,000	0.1797	522	1,302	2,479,400	0.928	7,763	2,511,700	0.940	0.86	9,211											
6/22/20 13:15	165.6	27,756.4	26,892.5	98	nm	262	100	x	x	x	x	106	6,336	610,000	0.2412	534	1,337	2,857,400	1.130	7,934	2,896,400	1.145	0.92	9,384											
7/13/20 8:15	499.0	28,255.2	27,391.3	98	nm	256	100	x	x	x	x	106	6,336	460,000	0.1819	570	1,443	1,955,500	0.773	8,408	1,989,500	0.787	1.07	9,866											
8/19/20 6:00	885.8	28,904.7	28,040.8	98	nm	260	73	x	x	x	x	106	6,336	500,000	0.1977	572	1,566	1,623,100	0.642	8,868	1,654,100	0.654	1.15	10,334	(20)										
9/15/20 11:00	653.0	29,541.3	28,677.4	98	nm	262	97	x	x	x	x	106	6,336	530,000	0.2095	625	1,695	1,425,580	0.564	9,251	1,464,880	0.579	1.26	10,726											
10/21/20 15:40	868.7	30,410.0	29,546.1	96	nm	246	100	x	x	x	x	111	6,672	420,000	0.1749	721	1,862	1,376,200	0.573	9,745	1,404,200	0.585	1.42	11,232											
11/9/20 11:20	451.7	30,862.6	29,998.7	95	nm	250	100	x	x	x	x	114	6,840	390,000	0.1665	783	1,940	1,380,600	0.589	10,008	1,439,300	0.614	1.54	11,503	(21)										
4/2/21 10:10	451.7	30,862.6	29,998.7	100	nm	250	0	x	x	x	x	100	6,000	200,000	0.0749	767	1,940	1,082,150	0.405	10,008	1,151,250	0.431	1.49	11,503	(22)										
4/9/21 15:30	173.3	31,036.0	30,172.1	96	nm	240	100	x	x	x	x	111	6,672	200,000	0.0833	775	1,953	1,082,150	0.451	10,082	1,151,250	0.479	1.51	11,582											
5/28/21 13:10	1,173.7	32,209.5	31,345.6	100	nm	245	100	x	x	x	x	100	6,000	260,000	0.0973	839	2,059	921,900	0.345	10,549	960,700	0.360	1.66	12,074											
6/29/21 17:00	771.8	32,980.4	32,116.5	100	nm	270	100	x	x	x	x	100	6,000	140,000	0.0524	744	2,117	645,700	0.242	10,775	687,600	0.257	1.38	12,312											
7/29/21 12:00	715.0	33,682.4	32,818.5	100	nm	268	98	x	x	x	x	100	6,000	160,000	0.0599	660	2,157	707,400	0.265	10,953	746,790	0.280	1.21	12,500											
8/27/21 14:20	698.3	34,364.7	33,500.8	100	nm	265	98	x	x	x	x	100	6,000	130,000	0.0487	588	2,194	508,190	0.190	11,108	530,370	0.199	1.10	12,664											
9/30/21 12:55	814.6	35,151.0	34,287.1	100	nm	273	97	x	x	x	x	100	6,000	140,000	0.0524	468	2,233	514,090	0.192	11,259	550,870	0.206	0.94	12,823											
10/29/21 12:38	695.7	35,846.6	34,982.7	100	nm	244	100	x	x	x	x	100	6,000	130,000	0.0487	374	2,268	396,800	0.149	11,377	416,900	0.156	0.80	12,949	(23)										
11/2/21 11:40	95.0	35,846.6	34,982.7	100	nm	nm	0	x	x	x	x	100	6,000	130,000	0.0487	357	2,268	396,800	0.149	11,377	416,900	0.156	0.77	12,949	(23)										
11/15/21 10:05	310.4	36,156.9	35,293.0	100	nm	240	100	x	x	x	x	100	6,000	89,000	0.0333	341	2,281	293,100	0.110	11,417	312,740	0.117	0.74	12,991	(24)										
NR445.07 Table A thresholds for PCE (stack height from 25 to <40 feet) and NR406 emission limit for total VOCs															35.4	1,237 lb/yr																			

ESTIMATED AIR EMISSIONS OF PCE, TOTAL HAPs, AND TOTAL VOCs FROM THE MAIN SVE SYSTEM

NOTES:

Run Time (hr) = Run time of the SVE vacuum blower (Rotron Model EN858 with 7.5-hp motor).

Meter Reading (hr) = Run time clock on blower (installed 8/3/16). Red text = value based on elapsed time because the meter reading was not recorded and it was assumed that blower ran continuously.

Flow Rate = Volumetric flow rate (range of 6,000-17,088 ft³/hr, as a function of vacuum, based on the blower performance curve).

Conc. = Measured concentration (for detected compounds). Red text = assumed concentration per footnote.

Rate = Emission rates (lb/hr) calculated by multiplying the flow rate, in ft³/hr, by the measured concentration, in µg/m³, by 6.24E-11 to convert from µg/m³ to lb/ft³.

Cumulative emissions routinely calculated by multiplying the average emission rate during a period by the difference in run times or meter readings at the beginning and end of that period and adding the cumulative mass from the previous period.

Cumulative emissions in red text are non-routine periods/events and not averaged (e.g., 8/3/16 rates applied for the 8/3/16-9/13/16 period because RW-10 was brought online on 9/13/16, etc.).

FN = Footnote (see below).

na = Not applicable.

nm = Not measured.

TTM = Trailing twelve-month emission estimate = Cumulative mass on date shown (-) Cumulative mass 12 months before in either pounds or tons per year (i.e., in either lb/yr or ton/yr).

FOOTNOTES:

- (1) Full-time operation of the system began on 7/6/16. Run time is routinely calculated based on meter readings. If they are not applicable, then run time = Elapsed Time from previous sampling period (+) prior Run Time total, as noted.
- (2) System temporarily shutdown from 7/22/16 to 8/3/16. No SVE exhaust gas sample collected on 7/6/16 or 7/22/16; PCE/total HAP/total VOC data shown are based on measured concentrations in 8/3/16 sample.
- (3) No SVE exhaust gas sample collected; PCE/total HAP/total VOC data shown are based on measured concentrations in 9/15/16 sample.
- (4) Run Time (%) and Cumulative mass estimates based on Meter Readings (hr) column instead of Run Time (hr) column starting on 12/20/16.
- (5) Valve on header at RW-11 removed on 2/5/18, allowing atmospheric air to dilute SVE exhaust gas. PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 2/19/18 sample and 2/19/18 vacuum and temp readings.
- (6) Relatively low manifold vacuum and temp due to leak at RW-11 (see Footnote #5). SVE exhaust gas sample collected on 2/19/18 diluted by atmospheric air.
- (7) Missing value on header at RW-11 replaced, plugging leak. PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 6/5/18 sample and 6/5/18 vacuum and temp readings.
- (8) No SVE exhaust gas sample collected; PCE/total HAP/total VOC data shown are based on measured concentrations in 10/2/18 sample.
- (9) Meter reading emailed to GF was changed from 18,348.0 to 18,384.0 hr (WRR field staff originally had transposed the 4 and 8).
- (10) Gate valve to SVE-4 closed. PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 9/6/18 sample and 9/6/18 vacuum and temp readings. Meter reading based on elapsed time.
- (11) Gate valve to SVE-4 re-opened. PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 10/12/18 sample and 10/12/18 vacuum and temp readings.
- (12) System shutdown due to PCE TTM deviation pending receipt of 10/24/18 & 10/31/18 lab data. PCE, total HAP, and total VOC data, etc. shown are based on measured concentrations in 10/31/18 sample and 10/31/18 vacuum and temp readings.
- (13) System resumed operation despite system leak in piping manifold to RW-11. PCE/total HAP/total VOC data, etc. based on measured concentrations in 03/27/19 sample and 03/27/19 vacuum and temp readings. RW-11 shown as offline.
- (14) Relatively low manifold vacuum/temp due to system leak (see FN #13). Sample collected on 03/27/19 diluted by atmospheric air, leak repair complete after sample collected, and system offline for ~6 hr on March 20 or 21 for turbo stripper repair.
- (15) SVE-4, the vent well with the highest VOC concentrations, was offline from 12:53 on 8/27/19 to 12:57 on 8/29/19. However, no adjustments are included in this table, resulting in a conservative estimate for emission tracking.
- (16) System shutdown <15 min after sampling on 11/4/19; it resumed operation at 14:10 on 12/23/19. PCE/total HAP/total VOC data for 12/23/19 based on measured concentrations in 12/30/19 sample.
- (17) System shutdown; soil gas temps at wellheads at or near freezing. Operation resumed on 4/1/20; PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 4/22/20 sample and 4/22/20 vacuum and temp readings.
- (18) System leak due to cracked SVE duct in overhead chase from about 15:30 on 4/9/20 to 14:00 on 4/16/20, when repair was complete. Conservatively assumed no decrease in concentrations due to dilution by atmospheric air during period of leak.
- (19) No SVE exhaust gas sample was collected when SVE-7 was brought online at 09:30; PCE/total HAP/total VOC data shown are based on measured concentrations in 6/1/20 sample collected at 18:15.
- (20) System was temporarily shut down from 10:00 on 7/20/20 to 14:27 on 7/29/20 for overhead chase repair.
- (21) Start of planned seasonal SVE system shutdown; concentrations based on sample collected at 10:00 on 11/9/20.
- (22) System resumed seasonal operation; PCE/total HAP/total VOC data, etc. shown are based on measured concentrations in 4/9/21 sample.
- (23) System shutdown <5 min after sampling on 10/29/21; it resumed operation at 11:40 on 11/2/21. PCE/total HAP/total VOC data for 11/2/21 based on measured concentrations in 10/29/21 sample.
- (24) Start of planned seasonal SVE system shutdown.

EXAMPLE CALCULATIONS:

VOC emission rate on 8/3/16:

$$\frac{14,400 \text{ ft}^3}{\text{hr}} \times \frac{1,305,700 \text{ } \mu\text{g}}{\text{m}^3} \times 6.24\text{E-}11 \frac{\text{lb/ft}^3}{\mu\text{g/m}^3} = 1.17 \text{ lb/hr}$$

Cumulative total VOC emissions from 7/6/16 to 7/22/16:

$$\frac{(1.17+1.17) \text{ lb/hr}}{2} \times (382-0 \text{ hr}) + 0 \text{ lb} = 448 \text{ lb}$$

WRR ENVIRONMENTAL SERVICES, INC.
EAU CLAIRE, WISCONSIN

TABLE C-3

SUMMARY OF VOCs DETECTED IN SVE-5 EXHAUST GAS SAMPLES

Sample Date	Concentration (µg/m ³) for Detected Volatile Organic Compounds (VOCs)																			
	Acetone	Benzene	Chloroethane	Chloroform	Cumene (Isopropyl benzene)	Cyclohexane	Dichlorodifluoromethane (CFC 12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	4-Ethyltoluene	n-Heptane	n-Hexane	d-Limonene	4-Methyl-2-pentanone (MIBK)	Methylene chloride
CAS #	67-64-1	71-43-2	75-00-3	67-66-3	98-82-8	110-82-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	78-87-5	100-41-4	622-96-8	142-82-5	110-54-3	5989-27-5	108-10-1	75-09-2
HAP	No	Both	Both	Both	Both	No	No	Both	Both	Both	No	No	Both	Both	No	No	Both	No	Both	Both
8/2/17	<8,500	<850	120,000	<850	2,100	2,800	1,000	170,000	<850	5,100	130,000	2,300	<850	47,000	3,200	11,000	1,700	<850	1,300	42,000
8/5/19	<7,600	<730	140,000	<760	1,600	2,500	<730	200,000	<740	9,600	220,000	3,100	1,000	28,000	1,600	8,200	1,100	<710	<740	36,000
8/6/19	<35,000	<3,400	82,000	<3,500	<3,400	<6,500	<3,400	210,000	<3,400	9,500	460,000	<3,400	<3,500	27,000	<3,400	4,000	<3,500	<3,300	<3,400	22,000
8/7/19	<30,000	<2,900	57,000	<3,000	<2,900	<5,500	<2,900	160,000	<2,900	6,700	370,000	<2,900	<3,000	16,000	<2,900	<3,000	<3,000	<2,800	<2,900	14,000
8/15/19	<30,000	<2,900	40,000	<3,000	<2,900	<5,500	<2,900	140,000	<2,900	4,400	370,000	<2,900	<3,000	12,000	<2,900	<3,000	<3,000	<2,800	<2,900	9,400
8/21/19	<8,000	<770	59,000	850	<780	<1,500	<770	140,000	1,500	5,500	380,000	3,300	1,100	9,200	<780	1,400	<800	<750	1,500	9,500
8/28/19	<31,000	<3,000	41,000	<3,100	<3,000	<5,700	<3,000	120,000	<3,000	6,400	340,000	<3,000	<3,100	4,900	<3,000	<3,100	<3,100	<2,900	<3,000	5,500
9/30/19	<6,700	<640	48,000	760	<650	<1,200	<640	81,000	690	3,200	250,000	1,700	830	<640	<650	<670	<670	<630	<650	1,500
10/17/19	<2,900	350	42,000	630	<290	770	<290	68,000	600	1,600	170,000	1,500	700	<290	<290	<290	<290	<290	<290	1,200
11/4/19	<1,400	220	35,000	530	<140	490	<140	53,000	420	4,300	130,000	1,100	580	<140	<140	<140	200	<140	<140	1,100
12/30/19	<2,800	<280	34,000	370	<290	<590	<280	46,000	380	4,800	91,000	850	420	<290	<290	<290	<290	<290	<280	2,800
1/7/20	<7,700	<770	24,000	<790	<790	<1,600	<770	35,000	<790	2,400	91,000	<790	<790	<790	<790	<790	<790	<790	<790	1,800
4/16/20	2,500	<250	36,000	370	<250	<510	<250	47,000	410	1,200	100,000	930	440	<250	<250	<250	<250	<250	<250	4,300
5/12/20	<8,000	<800	26,000	<810	<810	<1,700	<800	48,000	<810	1,500	120,000	<810	<810	<810	<810	<810	<810	<810	<800	2,800
6/1/20	<5,000	<500	32,000	640	<510	<1,000	<500	71,000	710	1,600	140,000	1,500	670	<510	<510	<510	<510	<510	<500	3,300
7/13/20	<14,000	<1,400	29,000	<1,400	<1,400	<2,900	<1,400	67,000	<1,400	1,400	140,000	<1,400	<1,400	<1,400	<1,400	<1,400	<1,400	<1,400	<1,400	<1,400
8/19/20	<7,300	<730	23,000	<740	<740	<1,500	<730	46,000	<740	1,600	120,000	980	<740	<740	<740	<740	<740	<740	<730	<730
9/15/20	<5,500	<550	18,000	<560	<550	<1,100	<550	21,000	<550	1,000	53,000	<560	<550	<550	<560	<550	<550	<550	<550	<550
10/21/20	<5,000	<500	20,000	<510	<500	<960	590	21,000	<500	700	51,000	<510	<500	<500	<510	<500	<500	<500	<960	<500
11/9/20	<3,600	<360	23,000	390	<360	<690	<360	25,000	<360	800	58,000	400	<360	620	<360	<360	<360	1,500	<690	<360
4/9/21	<7,200	<720	28,000	<730	<720	<1,400	<720	30,000	<720	980	83,000	<730	<720	<720	<730	<720	<720	<720	<720	4,800
5/28/21	<7,100	<710	10,000	<720	<710	<1,400	<710	15,000	<710	<710	45,000	<720	<710	<710	<720	<710	<710	<710	<1,400	<710
6/29/21	<10,000	<1,000	19,000	<1,000	<1,000	<1,900	<1,000	28,000	<1,000	1,300	79,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,900	<1,000
7/29/21	<5,400	<520	19,000	<560	<540	<1,100	<550	27,000	<550	1,500	67,000	<550	<520	<540	<550	<550	<550	<520	<1,100	<540

TABLE C-3

SUMMARY OF VOCs DETECTED IN SVE-5 EXHAUST GAS SAMPLES

Sample Date	Concentration ($\mu\text{g}/\text{m}^3$) for Detected Volatile Organic Compounds (VOCs)																			
	Acetone	Benzene	Chloroethane	Chloroform	Cumene (Isopropyl benzene)	Cyclohexane	Dichlorodifluoromethane (CFC 12)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	Ethylbenzene	4-Ethyltoluene	n-Heptane	n-Hexane	d-Limonene	4-Methyl-2-pentanone (MIBK)	Methylene chloride
CAS #	67-64-1	71-43-2	75-00-3	67-66-3	98-82-8	110-82-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5	78-87-5	100-41-4	622-96-8	142-82-5	110-54-3	5989-27-5	108-10-1	75-09-2
HAP	No	Both	Both	Both	Both	No	No	Both	Both	Both	No	No	Both	Both	No	No	Both	No	Both	Both
8/27/21	<8,000	<770	21,000	<830	<800	<1,700	<820	28,000	<820	1,800	54,000	<820	<770	<800	<820	<820	<820	<770	<1,700	<800
9/30/21	<4,000	<380	7,100	<410	<400	<840	<400	9,100	<400	620	16,000	<400	<380	<400	<400	<400	<400	<380	<840	<400
10/29/21	<7,600	<740	17,000	<790	<760	<1,600	<780	22,000	<780	1,200	41,000	<780	<740	<760	<780	<780	<780	<740	<1,600	<760
11/15/21	<1,400	<130	14,000	170	<140	<290	<140	13,000	<140	950	24,000	<140	190	<140	<140	<140	<140	<130	<290	<140
12/1/21	250	250	50,000	500	250	250	250	50,000	500	1,000	100,000	1,000	500	250	250	250	250	1,000	250	1,000

TABLE C-3

SUMMARY OF VOCs DETECTED IN SVE-5 EXHAUST GAS SAMPLES

Sample Date	Concentration ($\mu\text{g}/\text{m}^3$) for Detected Volatile Organic Compounds (VOCs)																Total Xylenes	Total HAPs (= sum of detected HAPs)	Total VOCs (= sum of detected VOCs)
	n-Nonane	n-Octane	alpha-Phene	Propene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorotrifluoroethane (CFC 113)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylenes	o-Xylene			
	CAS # 111-84-2	111-65-9	80-56-8	115-07-1	103-65-1	127-18-4	108-88-3	71-55-6	79-00-5	79-01-6	76-13-1	95-63-6	108-67-8	75-01-4	179601-23-1	95-47-6			
HAP	No	No	No	No	No	Both	Both	Federal	Both	Both	No	No	No	Both	Both	Both			
8/2/17	45,000	23,000	1,400	12,000	1,800	13,000	100,000	280,000	<850	2,000	940,000	5,500	3,200	220,000	120,000	47,000	167,000	1,171,200	2,353,400
8/5/19	41,000	20,000	1,100	4,400	980	7,200	51,000	400,000	<760	12,000	1,000,000	890	1,300	130,000	43,000	17,000	60,000	1,077,500	2,382,570
8/6/19	22,000	10,000	<3,400	<3,400	<3,500	15,000	78,000	540,000	<3,500	16,000	600,000	<3,400	<3,400	55,000	73,000	29,000	102,000	1,156,500	2,252,500
8/7/19	11,000	6,000	<2,900	<2,900	<3,000	15,000	52,000	410,000	<3,000	12,000	400,000	<2,900	<2,900	35,000	44,000	18,000	62,000	839,700	1,626,700
8/15/19	8,200	5,500	<2,900	<2,900	<3,000	43,000	30,000	450,000	<3,000	18,000	310,000	<2,900	<2,900	19,000	38,000	14,000	52,000	817,800	1,511,500
8/21/19	5,900	4,100	<770	980	<800	82,000	26,000	490,000	940	27,000	290,000	1,200	790	25,000	32,000	13,000	45,000	924,090	1,611,760
8/28/19	3,200	<3,100	<3,000	<3,000	<3,100	61,000	13,000	480,000	<3,100	24,000	240,000	<3,000	<3,000	17,000	14,000	7,500	21,500	794,300	1,377,500
9/30/19	<670	<670	<640	700	<670	100,000	680	440,000	760	43,000	150,000	<650	<650	7,300	<1,400	690	690	728,410	1,130,810
10/17/19	<290	<290	<290	540	<290	60,000	330	330,000	580	37,000	130,000	<290	<290	6,100	<600	<290	<890	549,090	851,900
11/4/19	<140	<140	<140	280	<140	53,000	280	240,000	470	25,000	100,000	<140	<140	4,300	<290	250	<540	418,650	650,520
12/30/19	<290	<290	<290	500	<290	37,000	<290	150,000	290	18,000	79,000	<290	<280	6,700	<590	330	<920	301,090	472,440
1/7/20	<790	<790	<790	<770	<790	35,000	<790	160,000	<790	18,000	73,000	<790	<770	5,100	<1,600	<790	<2,390	281,300	445,300
4/16/20	<250	<250	<250	430	<250	43,000	350	210,000	300	29,000	110,000	<250	<250	8,100	<510	<250	<760	380,470	594,330
5/12/20	<810	<810	<810	<800	<810	51,000	<810	270,000	<810	27,000	94,000	<810	<800	4,800	<1,700	<810	<2,510	431,100	645,100
6/1/20	<510	<510	<510	590	<510	79,000	<510	260,000	670	44,000	120,000	<510	<500	3,700	<1,000	<510	<1,510	497,290	759,380
7/13/20	<1,400	<1,400	<1,400	<1,400	<1,400	73,000	<1,400	250,000	<1,400	39,000	100,000	<1,400	<1,400	3,000	<2,900	<1,400	<4,300	462,400	702,400
8/19/20	<740	<740	<740	ND	<740	100,000	<740	220,000	<740	46,000	91,000	<740	<730	2,700	<1,500	<740	<2,240	439,300	651,280
9/15/20	<560	<550	<560	<550	<550	64,000	<550	130,000	<550	29,000	42,000	<550	<560	870	<1,100	<560	<1,660	263,870	358,870
10/21/20	<510	<500	<510	<500	<500	67,000	<500	110,000	<500	33,000	45,000	<500	<510	640	<960	<510	<1,470	252,340	348,930
11/9/20	<360	<360	2,600	440	<360	64,000	670	150,000	410	38,000	44,000	<360	<360	750	1,000	470	1,470	305,110	412,050
4/9/21	<730	<720	<730	<720	<720	54,000	<720	150,000	<720	33,000	53,000	<720	<730	5,500	<1,400	<730	<2,130	306,280	442,280
5/28/21	<720	<710	<720	<710	<710	67,000	<710	120,000	<710	32,000	27,000	<710	<720	<720	<1,400	<720	<2,120	244,000	316,000
6/29/21	<1,000	<1,000	<1,000	<1,000	<1,000	140,000	<1,000	200,000	<1,000	75,000	42,000	<1,000	<1,000	<1,000	<1,900	<1,000	<2,900	463,300	584,300
7/29/21	<540	<550	<560	<540	<550	140,000	690	210,000	590	96,000	33,000	<540	<540	<540	<1,100	<540	<1,640	494,780	594,780
8/27/21	<800	<820	<830	<800	<820	130,000	<800	190,000	<800	94,000	31,000	<800	<800	<800	<1,700	<800	<2,500	464,800	549,800
9/30/21	<400	<400	<410	<400	<400	53,000	<400	63,000	<400	34,000	11,000	<400	<400	<400	<840	<400	<1,240	166,820	193,820

TABLE C-3

SUMMARY OF VOCs DETECTED IN SVE-5 EXHAUST GAS SAMPLES

Sample Date	Concentration ($\mu\text{g}/\text{m}^3$) for Detected Volatile Organic Compounds (VOCs)																Total Xylenes	Total HAPs (= sum of detected HAPs)	Total VOCs (= sum of detected VOCs)
	n-Nonane	n-Octane	alpha-Phene	Propene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorotrifluoroethane (CFC 113)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylenes	o-Xylene			
CAS #	111-84-2	111-65-9	80-56-8	115-07-1	103-65-1	127-18-4	108-88-3	71-55-6	79-00-5	79-01-6	76-13-1	95-63-6	108-67-8	75-01-4	179601-23-1	95-47-6			
HAP	No	No	No	No	No	Both	Both	Federal	Both	Both	No	No	No	Both	Both	Both			
10/29/21	<760	<780	<790	<760	<780	92,000	<760	120,000	<760	100,000	21,000	<760	<760	<760	<1,600	<760	<2,360	352,200	414,200
11/15/21	<140	<140	<140	<140	<140	62,000	220	87,000	250	53,000	17,000	<140	<140	570	<290	<140	<430	231,350	272,350
12/1/21	250	250	250	500	250	50,000	500	100,000	500	50,000	100,000	250	250	500	250	250		306,750	512,000

NOTES:

Concentrations are in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

August 2017 sample was collected during pilot test; all other samples were collected during full-scale operation of SVE system.

FOOTNOTES:

(1) Samples analyzed for VOCs using EPA Method TO-15. Only VOCs detected in one or more samples are listed in this table.

(2) HAP listing = "Both" if VOC is on USEPA's Initial List of Hazardous Air Pollutants with Modifications webpage and in NR 445.07 Table A, WAC (Register March 2016 No. 723). HAP listing = "Federal" if VOC is on USEPA's Initial List of HAPs with Modifications webpage only.

WRR ENVIRONMENTAL SERVICES, INC.
EAU CLAIRE, WISCONSIN

TABLE C-4

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-5 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Inlet Vacuum (inch wc)	Flow Rate		Total HAPs			Total VOCs				FN	
				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)		
8/5/19 7:30		0	32	22	1,320	1,077,500	0.089	0.0	2,382,570	0.20	na	0.0	(3)	
8/5/19 16:10	8.7	8.7	32	22	1,320	1,077,500	0.089	0.77	2,382,570	0.20	na	1.70		
8/6/19 16:25	24	33	32	22	1,320	1,156,500	0.095	3.0	2,252,500	0.186	na	6.3		
8/7/19 13:10	21	54	32	22	1,320	839,700	0.069	4.7	1,626,700	0.134	na	9.6		
8/15/19 14:35	193	247	32	22	1,320	817,800	0.067	17.9	1,511,500	0.124	na	35		
8/21/19 9:00	138	386	32	22	1,320	924,090	0.076	28	1,611,760	0.133	na	52		
8/28/19 12:30	172	557	32	22	1,320	794,300	0.065	40	1,377,500	0.113	na	74		
9/1/19 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	82	
9/15/19 11:00											na	118		
9/30/19 6:35	786	1,343	32	22	1,320	728,410	0.060	89	1,130,810	0.093	na	155		
10/1/19 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	156	
10/17/19 15:30	417	1,760	32	22	1,320	549,090	0.045	111	851,900	0.070	na	189		
10/21/19 15:40											na	195		
11/1/19 0:00	HAP...	2,105									na	210		
11/4/19 7:55	424	2,184	32	22	1,320	418,650	0.034	128	650,520	0.054	na	215	(4)	
11/9/19 11:40											na	215		
12/1/19 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	215	
12/23/19 14:10	na	2,184	34	20	1,200	301,090	0.023	128	472,440	0.035	na	215	(4)	
12/30/19 12:35	166.4	2,351	33	21	1,260	301,090	0.024	132	472,440	0.037	na	221		
1/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	222	
1/7/20 14:15	193.7	2,544	34	20	1,200	281,300	0.021	136	445,300	0.033	na	228	(5)	
2/2/20 0:00												228		
3/1/20 0:00												228		
4/1/20 6:05	na	2,544	33	21	1,260	380,470	0.030	136	594,330	0.047	na	228	(6)	

TABLE C-4

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-5 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Inlet Vacuum (inch wc)	Flow Rate		Total HAPs			Total VOCs				FN	
				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)		
4/2/20 10:10													229	
4/9/20 15:30													237	
4/16/20 12:15	366.2	2,911	33	21	1,260	380,470	0.030	147	594,330	0.047	na		245	
5/1/20 0:00													262	
5/12/20 13:45	625.5	3,536	33	21	1,260	431,100	0.034	167	645,100	0.051	na		276	
5/28/20 13:10													297	
6/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	302	
6/1/20 18:20	484.6	4,021	32	22	1,320	497,290	0.041	185	759,380	0.063	na		303	
6/29/20 17:00													342	
7/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	344	
7/13/20 8:10	997.8	5,019	33	21	1,260	462,400	0.036	224	702,400	0.055	na		362	
7/29/20 12:00													382	
8/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											na	386	
8/19/20 6:30	886.3	5,905	33	21	1,260	439,300	0.035	255	651,280	0.051	na		409	
8/27/20 14:20													417	
9/1/20 0:00												0.17	421	
9/15/20 11:00	652.5	6,557	33	21	1,260	263,870	0.021	273	358,870	0.028	0.16		435	
9/30/20 12:55													445	
10/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											0.14	445	
10/21/20 15:40	868.7	7,426	33	21	1,260	252,340	0.020	291	348,930	0.027	0.132		459	
10/29/20 12:38													464	
11/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											0.128	466	
11/2/20 11:40													467	
11/9/20 11:40	452.0	7,878	34	20	1,200	305,110	0.023	301	412,050	0.031	0.129		472 (7)	
11/15/20 10:05													472	
12/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											0.129	472	
1/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking											0.125	472	

TABLE C-4

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-5 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Inlet Vacuum (inch wc)	Flow Rate		Total HAPs			Total VOCs				FN
				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)	
2/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
3/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
4/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
4/2/21 10:10		7,878	30	24	1,440	306,280	0.028	301	442,280	0.040	0.121	472	(8)
4/9/21 15:30	173	8,051	32	22	1,320	306,280	0.025	305	442,280	0.036	0.121	479	
5/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
5/28/21 13:10	1,174	9,225	33	21	1,260	244,000	0.019	331	316,000	0.025	0.109	515	
6/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
6/29/21 17:00	772	9,997	34	20	1,200	463,300	0.035	352	584,300	0.044	0.099	541	
7/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
7/29/21 12:00	715	10,712	32	22	1,320	494,780	0.041	379	594,780	0.049	0.096	574	
8/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
8/27/21 14:20	698	11,410	32	22	1,320	464,800	0.038	407	549,800	0.045	0.095	607	
9/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
9/30/21 12:55	815	12,225	33	21	1,260	166,820	0.013	428	193,820	0.015	0.094	632	
10/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
10/29/21 12:38	696	12,921	33	21	1,260	352,200	0.028	442	414,200	0.033	0.092	649	(9)
11/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
11/2/21 11:40	95	12,921	33	21	1,260	352,200	0.028	442	414,200	0.033	0.091	649	(9)
11/15/21 10:05	310	13,231	33	21	1,260	231,350	0.018	449	272,350	0.021	0.092	657	(10)
12/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												
1/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking												

TABLE C-4

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-5 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Inlet Vacuum (inch wc)	Flow Rate		Total HAPs			Total VOCs				FN
				(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)	
2/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking										0.092	657	
3/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking										0.092	657	
4/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking										0.092	657	
NR406 emission limit for total VOCs											5.7		

NOTES:

- Run Time (hr) = Run time of vacuum blower (Rotron Model EN303 with 0.5-hp motor) assuming it ran continuously, except as shown.
- Flow Rate = Volumetric flow (nominal range = 0-3,300 ft³/hr, as a function of inlet vacuum, based on performance curve).
- Conc. = Measured concentration (for detected compounds). Red text = assumed concentration per footnote(s).
- Rate = Emission rates (lb/hr) based on flow, measured concentration, and conversion factor. See Table 18 for details.
- Cumulative emissions routinely calculated by multiplying the average emission rate during a period by the difference in run times at the beginning and end of that period and adding the cumulative mass from the previous period. See Table 18 for example calculations.
- na = Not applicable.
- TTM = Trailing twelve-month emission estimate = Cumulative mass on date shown (-) Cumulative mass 12 months before in tons per year (ton/yr).

FOOTNOTES (FN):

- (1) Elapsed Time = hours between Date and Time intervals shown, and full-time operation of SVE-5 began at 07:30 on 8/5/19.
- (2) Run time = Elapsed Time from previous sampling period (+) prior Run Time total.
- (3) Concentrations based on sample collected at 16:10 on 8/5/19 (i.e., about 8.7 hr after startup of SVE-5).
- (4) System shutdown <15 min after sampling on 11/4/19; it resumed operation at 14:10 on 12/23/19. Total HAP/total VOC data for 12/23/19 based on measured concentrations in 12/30/19 sample.
- (5) Start of planned seasonal system shutdown; soil gas temps at wellheads at or near freezing.
- (6) Operation resumed; total HAP data, etc. for 4/1/20 based on measured concentrations in 4/16/20 sample & 4/16/20 vacuum readings.
- (7) Start of planned seasonal SVE system shutdown; concentrations based on sample collected at 10:05 on 11/9/20.
- (8) Seasonal operation resumed; total HAP data, etc. based on measured concentrations in 4/9/21 sample.
- (9) System shutdown <5 min after sampling on 10/29/21; it resumed operation at 11:40 on 11/2/21. Total HAP/total VOC data for 11/2/21 based on measured concentrations in 10/29/21 sample.
- (10) Start of planned seasonal SVE system shutdown; soil gas temp at wellhead at or near freezing.

WRR ENVIRONMENTAL SERVICES, INC.
EAU CLAIRE, WISCONSIN

TABLE C-5

SUMMARY OF VOCs DETECTED IN SVE-6 EXHAUST GAS SAMPLES

Sample Date	Concentration ($\mu\text{g}/\text{m}^3$) for Detected VOCs ⁽¹⁾										Total HAPs (= sum of detected HAPs)	Total VOCs (= sum of detected VOCs)
	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethanol	Methylene chloride	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	Trichloroethene (TCE)	Trichlorotrifluoroethane (CFC 113)		
CAS #	75-34-3	75-35-4	156-59-2	64-17-5	75-09-2	127-18-4	108-88-3	71-55-6	79-01-6	76-13-1		
HAP ⁽²⁾	Both	Both	No	No	Both	Both	Both	Federal	Both	No		
10/14/20	<250	<240	<240	<2,400	270	46,000	<240	2,700	7,100	<240	56,070	56,070
10/15/20	<330	<310	<310	<3,200	<310	43,000	<310	2,400	5,800	<320	51,200	51,200
10/16/20	<250	<250	<250	<2,500	<250	39,000	<250	2,200	4,800	<250	46,000	46,000
10/21/20	<260	<250	650	<2,600	<250	39,000	<250	2,300	4,100	<260	45,400	46,050
10/28/20	<110	<100	420	1,100	<100	17,000	110	1,100	2,000	<110	20,210	21,730
11/4/20	<130	<130	560	<1,300	310	22,000	<130	1,200	2,100	<130	25,610	26,170
4/9/21	<210	<200	1,000	<2,000	<200	36,000	<200	2,700	3,500	<200	42,200	43,200
5/28/21	<490	<470	690	<4,800	<470	66,000	<470	2,800	4,000	<480	72,800	73,490
6/29/21	<530	<510	890	<5,200	<510	78,000	<510	8,700	10,000	<520	96,700	97,590
7/29/21	670	460	2,300	<3,800	<400	86,000	930	15,000	17,000	690	120,060	123,050
8/27/21	<380	520	840	<3,600	<380	75,000	<380	12,000	14,000	<390	101,520	102,360
9/30/21	<410	430	770	<3,800	<400	69,000	<400	11,000	14,000	<410	94,430	95,200
10/29/21	160	320	560	<740	<76	43,000	<76	8,100	13,000	190	64,580	65,330
11/15/21	<180	220	550	<1,700	<180	31,000	<180	5,000	7,200	200	43,420	44,170
12/1/21	500	500	500	500	500	50,000	500	5,000	10,000	500	67,000	68,500

TABLE C-5

SUMMARY OF VOCs DETECTED IN SVE-6 EXHAUST GAS SAMPLES

NOTES:

Concentrations are in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

HAPs = Hazardous air pollutants.

VOCs = Volatile organic compounds.

FOOTNOTES:

(1) Samples analyzed for VOCs using EPA Method TO-15. Only VOCs detected in one or more samples on or before 10/21/20 are listed in this table. Starting on 10/28/20, only VOCs detected at or above $400 \mu\text{g}/\text{m}^3$ in one or more samples are listed.

(2) HAP listing = "Both" if VOC is on USEPA's Initial List of Hazardous Air Pollutants with Modifications webpage and in NR 445.07 Table A, WAC (Register March 2016 No. 723). HAP listing = "Federal" if VOC is on USEPA's Initial List of HAPs with Modifications webpage only.

WRR ENVIRONMENTAL SERVICES, INC.
EAU CLAIRE, WISCONSIN

TABLE C-6

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-6 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Meter Reading (hr)	Inlet Vacuum (inch Hg)	Inlet Vacuum (inch wc)	Run Time (%)	Flow Rate		Total HAPs			Total VOCs				FN
							(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)	
10/14/20 12:30		0	0.0	6.5	88		30	1,800	56,070	0.0063	0.0	56,070	0.0063	na	0.0	(3)
10/14/20 18:00	5.5	5.5	5.5	6.5	88	100	30	1,800	56,070	0.0063	0.035	56,070	0.0063	na	0.035	
10/15/20 16:10	22	27.5	27.5	6.75	92	99	30	1,800	51,200	0.0058	0.17	51,200	0.0058	na	0.17	
10/16/20 10:00	18	45.4	45.4	6.75	92	100	30	1,800	46,000	0.0052	0.26	46,000	0.0052	na	0.26	
10/21/20 15:45	126	171.1	171.1	7.0	95	100	30	1,800	45,400	0.0051	0.91	46,050	0.0052	na	0.91	
10/28/20 14:35	167	338.0	338.0	7.0	95	100	30	1,800	20,210	0.0023	1.53	21,730	0.0024	na	1.55	
10/29/20 12:25															1.61	
11/1/20 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)														1.77	
11/2/20 11:40															1.87	
11/4/20 12:35	166	504.8	504.8	7.0	95	100	30	1,800	25,610	0.0029	1.95	26,170	0.0029	na	2.00	
11/9/20 11:30	119	623.7	623.7	7.0	95	100	30	1,800	25,610	0.0029	2.30	26,170	0.0029	na	2.35	(4)
11/15/20 9:40															2.35	
4/2/21 10:10		623.7	0.0	6.5	88	0	30	1,800	42,200	0.0047	2.30	43,200	0.0049	na	2.35	(5)
4/9/21 15:25	173.3	796.9	173.2	5.5	75	100	28	1,707	42,200	0.0045	3.10	43,200	0.0046	na	3.17	
5/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
5/28/21 13:10	1,174	1,970.5	1,346.8	8.0	108	100	30	1,800	72,800	0.0082	10.53	73,490	0.0083	na	10.71	
6/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
6/29/21 17:05	772	2,742	2,118.7	8.0	108	100	30	1,800	96,700	0.0109	17.88	97,590	0.0110	na	18.13	
7/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
7/29/21 12:15	715	3,458	2,833.9	8.0	108	100	30	1,800	120,060	0.0135	26.59	123,050	0.0138	na	26.99	
8/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
8/27/21 14:00	698	4,155	3,531.7	8.0	108	100	30	1,800	101,520	0.0114	35.27	102,360	0.0115	na	35.82	
9/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
9/30/21 12:40	815	4,970	4,346.3	8.0	108	100	30	1,800	94,430	0.0106	44.23	95,200	0.0107	na	44.86	
10/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking (TTM estimates to be compiled/tracked post 10/14/21)															
10/29/21 12:25	696	5,661	5,037.0	6.0	81	99	30	1,800	64,580	0.0073	50.40	65,330	0.0073	0.025	51.09	(6)

TABLE C-6

ESTIMATED AIR EMISSIONS OF TOTAL HAPs AND TOTAL VOCs FROM SVE-6 VENT SYSTEM

Date and Time	Elapsed Time ⁽¹⁾ (hr)	Run Time ⁽²⁾ (hr)	Meter Reading (hr)	Inlet Vacuum (inch Hg)	Inlet Vacuum (inch wc)	Run Time (%)	Flow Rate		Total HAPs			Total VOCs				FN			
							(scfm)	(ft ³ /hr)	Conc. (µg/m ³)	Rate (lb/hr)	Cumulative (lb)	Conc. (µg/m ³)	Rate (lb/hr)	TTM (ton/yr)	Cumulative (lb)				
11/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	51.09			
11/2/21 11:40	95	5,661	5,037.0	6.0	81	0	30	1,800	64,580	0.0073	50.40	65,330	0.0073	0.025	51.09	(6)			
11/15/21 9:40	310	5,971	5,347.0	6.0	81	100	30	1,800	43,420	0.0049	52.28	44,170	0.0050	0.025	52.99	(7)			
12/1/21 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	52.99			
1/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	52.99			
2/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	52.99			
3/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	52.99			
4/1/22 0:00	HAP estimates at <i>Date/Time</i> shown for monthly emission tracking														0.025	52.99			
NR406 emission limit for total VOCs																	5.7		

NOTES:

Run Time=Run time of vacuum blower (Rotron Model EN606 w/3.0-hp motor). Red text=value based on Elapsed Time because meter reading not recorded (see FN #2).

Flow Rate = Volumetric flow (nominal range = 0-12,000 ft³/hr, as a function of inlet vacuum, based on performance curve).

Conc. = Measured concentration (for detected compounds). Red text = assumed concentration per footnote(s).

Rate = Emission rates (lb/hr) based on flow, measured concentration, and conversion factor. See Table 18 for details.

Cumulative emissions routinely calculated by multiplying the average emission rate during a period by the difference in run times at the beginning and end of that period and adding the cumulative mass from the previous period. See Table 18 for example calculations.

na = Not applicable.

TTM = Trailing 12-month emission estimate = Cumulative mass on date shown (-) Cumulative mass 12 months before in tons per year (ton/yr).

FOOTNOTES (FNs):

(1) Elapsed Time = operating hours between Date and Time intervals shown, and full-time operation of SVE-6 began at 12:30 on 10/14/20.

(2) Run Time = Estimate of total operating hours based on meter reading, or Elapsed Time from previous sampling period (+) prior Run Time total, if meter reading not measured.

(3) Concentrations based on sample collected at 18:00 on 10/14/20 (i.e., about 5.5 hr after startup of SVE-6).

(4) Start of planned seasonal SVE system shutdown; 11/9/20 concentrations based on 11/4/20 sample, as shown.

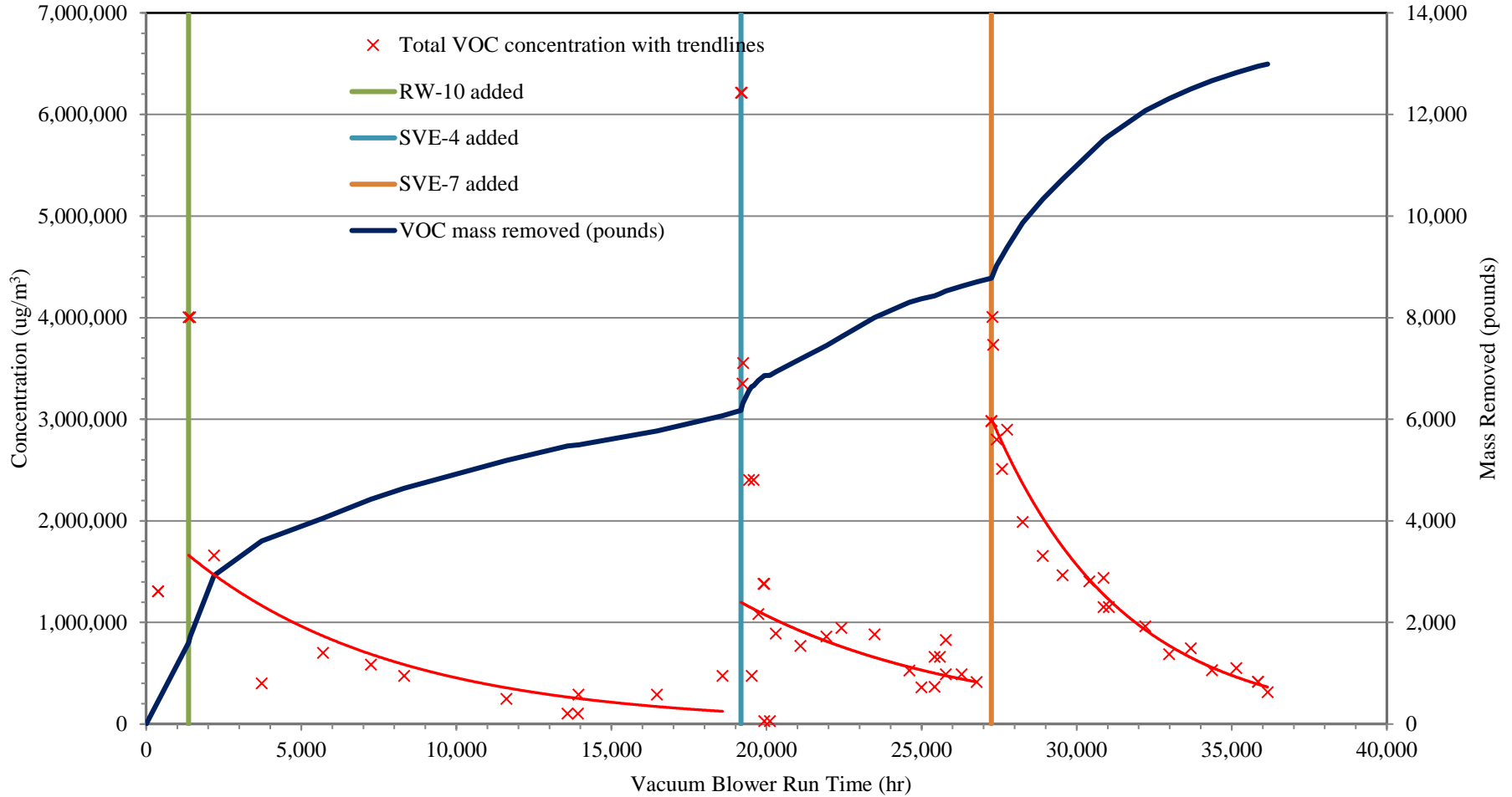
(5) System resumed seasonal operation; 4/2/21 concentrations based on 4/9/21 sample, as shown.

(6) System shutdown <5 min after sampling on 10/29/21; it resumed operation at 11:40 on 11/2/21. Total HAP/total VOC data for 11/2/21 based on measured concentrations in 10/29/21 sample.

(7) Start of planned seasonal SVE system shutdown; soil gas temp at wellhead at or near freezing.

APPENDIX C-2

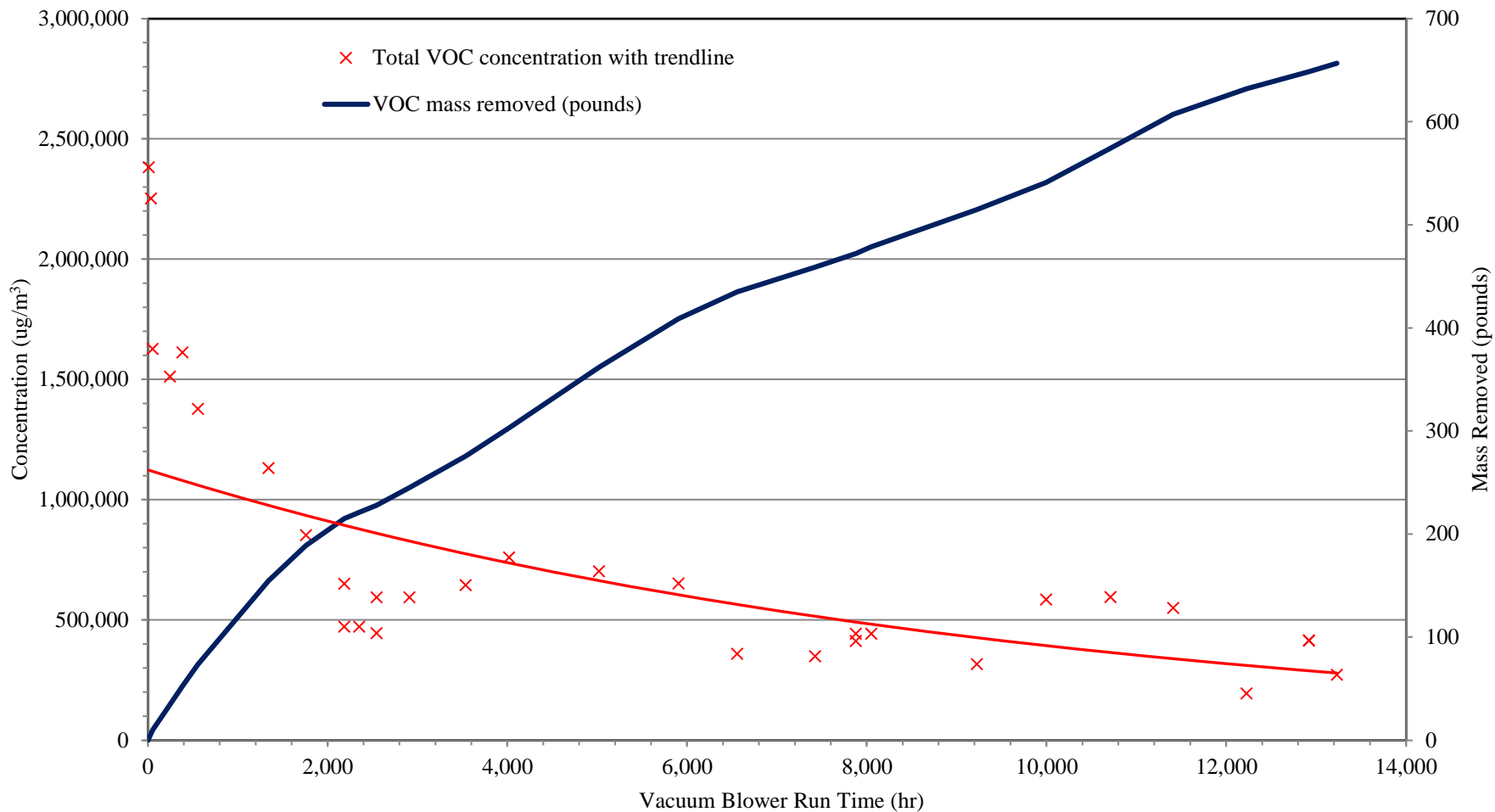
CHARTS



Note: Best-fit exponential trend lines generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
THE MAIN SVE SYSTEM (JULY 2016 - NOVEMBER 2021)**

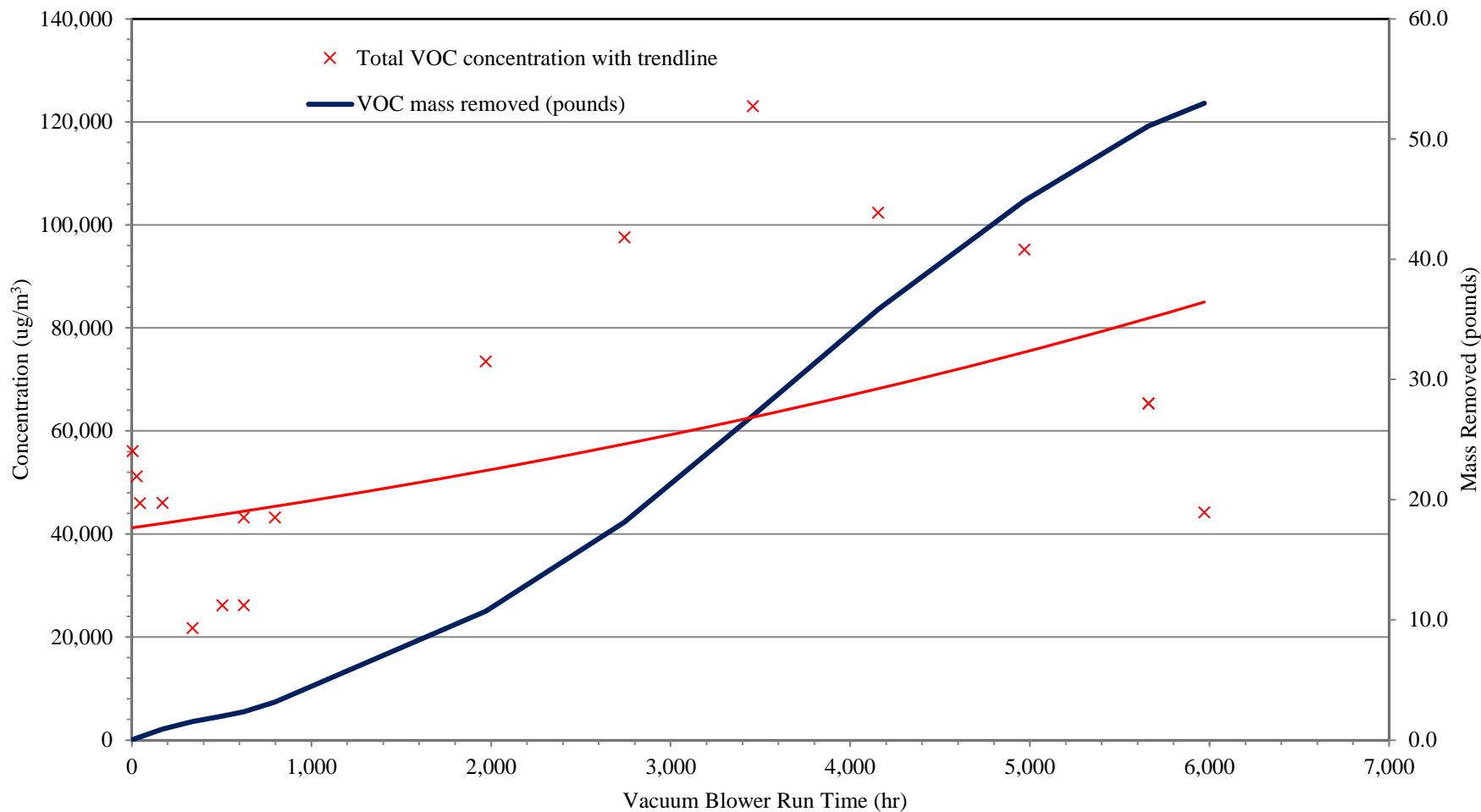
**WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN**



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
THE SVE-5 VENT SYSTEM (AUGUST 2019 - NOVEMBER 2021)**

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN



Note: Best-fit exponential trend line generated using Excel.

**TOTAL VOC CONCENTRATIONS AND MASS REMOVED BY
THE SVE-6 VENT SYSTEM (OCT 2020 - NOV 2021)**

**WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN**

APPENDIX C-3

LABORATORY REPORTS – APRIL THROUGH NOVEMBER 2021



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LABORATORY REPORT

April 30, 2021

Project #55929.005 WRR
SVE exhaust 4/9/2021
Reviewed by CCW
7/1/2021

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

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on April 20, 2021. For your reference, these analyses have been assigned our service request number P2102052.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 6:16 pm, Apr 30, 2021

Hayden Akers
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated

Service Request No: P2102052

CASE NARRATIVE

The samples were received intact under chain of custody on April 20, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated

Service Request: P2102052

Date Received: 4/20/2021

Time Received: 10:26

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
Main SVE-April	P2102052-001	Air	4/9/2021	15:30	1SS01219	0.35	6.04	X
SVE-5 April	P2102052-002	Air	4/9/2021	15:30	1SS01192	0.26	5.93	X
SVE-6 April	P2102052-003	Air	4/9/2021	15:25	1SS01187	-0.08	7.78	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: Main SVE-April

ALS Project ID: P2102052
 ALS Sample ID: P2102052-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01219

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00020 Liter(s)

Initial Pressure (psig): 0.35 Final Pressure (psig): 6.04

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	7,200	ND	3,000	
75-05-8	Acetonitrile	ND	730	ND	440	
107-02-8	Acrolein	ND	1,500	ND	660	
107-13-1	Acrylonitrile	ND	1,400	ND	640	
71-43-2	Benzene	ND	720	ND	220	
100-44-7	Benzyl Chloride	ND	1,400	ND	280	
75-27-4	Bromodichloromethane	ND	720	ND	110	
75-25-2	Bromoform	ND	730	ND	71	
74-83-9	Bromomethane	ND	720	ND	180	
106-99-0	1,3-Butadiene	ND	720	ND	320	
123-86-4	n-Butyl Acetate	ND	1,400	ND	290	
75-15-0	Carbon Disulfide	ND	1,400	ND	440	
56-23-5	Carbon Tetrachloride	ND	700	ND	110	
108-90-7	Chlorobenzene	4,400	720	970	160	
75-00-3	Chloroethane	ND	720	ND	270	
67-66-3	Chloroform	ND	730	ND	150	
74-87-3	Chloromethane	ND	720	ND	350	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	720	ND	230	
98-82-8	Cumene	ND	720	ND	150	
110-82-7	Cyclohexane	5,100	1,400	1,500	400	
124-48-1	Dibromochloromethane	ND	720	ND	84	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,400	ND	140	
106-93-4	1,2-Dibromoethane	ND	720	ND	93	
95-50-1	1,2-Dichlorobenzene	ND	730	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	730	ND	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: Main SVE-April

ALS Project ID: P2102052

ALS Sample ID: P2102052-001

Test Code: EPA TO-15

Date Collected: 4/9/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/20/21

Analyst: Simon Cao

Date Analyzed: 4/29/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

0.00020 Liter(s)

Container ID: 1SS01219

Initial Pressure (psig): 0.35 Final Pressure (psig): 6.04

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	720	ND	120	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	720	ND	150	
75-34-3	1,1-Dichloroethane	7,700	750	1,900	180	
107-06-2	1,2-Dichloroethane	ND	720	ND	180	
75-35-4	1,1-Dichloroethene	5,800	720	1,500	180	
156-59-2	cis-1,2-Dichloroethene	28,000	720	7,000	180	
156-60-5	trans-1,2-Dichloroethene	ND	730	ND	180	
78-87-5	1,2-Dichloropropane	950	720	210	160	
10061-01-5	cis-1,3-Dichloropropene	ND	730	ND	160	
10061-02-6	trans-1,3-Dichloropropene	ND	700	ND	160	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	720	ND	100	
123-91-1	1,4-Dioxane	ND	720	ND	200	
64-17-5	Ethanol	ND	7,300	ND	3,900	
141-78-6	Ethyl Acetate	ND	1,400	ND	380	
100-41-4	Ethylbenzene	3,500	720	800	170	
622-96-8	4-Ethyltoluene	ND	730	ND	150	
142-82-5	n-Heptane	2,600	720	620	180	
87-68-3	Hexachlorobutadiene	ND	720	ND	67	
110-54-3	n-Hexane	1,500	720	440	200	
591-78-6	2-Hexanone	ND	1,400	ND	340	
5989-27-5	d-Limonene	ND	720	ND	130	
78-93-3	2-Butanone (MEK)	ND	1,400	ND	470	
80-62-6	Methyl Methacrylate	ND	1,400	ND	340	
1634-04-4	Methyl tert-Butyl Ether	ND	720	ND	200	
75-09-2	Methylene Chloride	9,000	720	2,600	210	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: Main SVE-April

ALS Project ID: P2102052

ALS Sample ID: P2102052-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01219

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00020 Liter(s)

Initial Pressure (psig): 0.35 Final Pressure (psig): 6.04

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,400	ND	340	
91-20-3	Naphthalene	ND	720	ND	140	
111-84-2	n-Nonane	1,100	730	220	140	
111-65-9	n-Octane	2,300	720	490	150	
80-56-8	alpha-Pinene	ND	730	ND	130	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,400	ND	560	
115-07-1	Propene	ND	720	ND	420	
103-65-1	n-Propylbenzene	ND	720	ND	150	
100-42-5	Styrene	ND	720	ND	170	
79-34-5	1,1,2,2-Tetrachloroethane	ND	730	ND	110	
127-18-4	Tetrachloroethene	200,000	3,600	29,000	530	D
109-99-9	Tetrahydrofuran (THF)	ND	1,400	ND	470	
108-88-3	Toluene	82,000	720	22,000	190	
120-82-1	1,2,4-Trichlorobenzene	ND	1,400	ND	190	
71-55-6	1,1,1-Trichloroethane	410,000	3,600	75,000	660	D
79-00-5	1,1,2-Trichloroethane	1,400	720	260	130	
79-01-6	Trichloroethene	320,000	3,500	59,000	660	D
75-69-4	Trichlorofluoromethane (CFC 11)	ND	700	ND	130	
76-13-1	Trichlorotrifluoroethane (CFC 113)	30,000	730	4,000	95	
95-63-6	1,2,4-Trimethylbenzene	ND	720	ND	150	
108-67-8	1,3,5-Trimethylbenzene	ND	730	ND	150	
108-05-4	Vinyl Acetate	ND	7,600	ND	2,200	
75-01-4	Vinyl Chloride	2,400	730	930	290	
179601-23-1	m,p-Xylenes	24,000	1,400	5,500	320	
95-47-6	o-Xylene	9,500	730	2,200	170	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 April

ALS Project ID: P2102052
 ALS Sample ID: P2102052-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01192

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): 0.26 Final Pressure (psig): 5.93

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	7,200	ND	3,000	
75-05-8	Acetonitrile	ND	730	ND	440	
107-02-8	Acrolein	ND	1,500	ND	660	
107-13-1	Acrylonitrile	ND	1,400	ND	640	
71-43-2	Benzene	ND	720	ND	220	
100-44-7	Benzyl Chloride	ND	1,400	ND	280	
75-27-4	Bromodichloromethane	ND	720	ND	110	
75-25-2	Bromoform	ND	730	ND	71	
74-83-9	Bromomethane	ND	720	ND	180	
106-99-0	1,3-Butadiene	ND	720	ND	320	
123-86-4	n-Butyl Acetate	ND	1,400	ND	290	
75-15-0	Carbon Disulfide	ND	1,400	ND	440	
56-23-5	Carbon Tetrachloride	ND	700	ND	110	
108-90-7	Chlorobenzene	ND	720	ND	160	
75-00-3	Chloroethane	28,000	720	11,000	270	
67-66-3	Chloroform	ND	730	ND	150	
74-87-3	Chloromethane	ND	720	ND	350	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	720	ND	230	
98-82-8	Cumene	ND	720	ND	150	
110-82-7	Cyclohexane	ND	1,400	ND	400	
124-48-1	Dibromochloromethane	ND	720	ND	84	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,400	ND	140	
106-93-4	1,2-Dibromoethane	ND	720	ND	93	
95-50-1	1,2-Dichlorobenzene	ND	730	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	730	ND	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 April

ALS Project ID: P2102052
 ALS Sample ID: P2102052-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01192

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): 0.26 Final Pressure (psig): 5.93

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	720	ND	120	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	720	ND	150	
75-34-3	1,1-Dichloroethane	30,000	750	7,400	180	
107-06-2	1,2-Dichloroethane	ND	720	ND	180	
75-35-4	1,1-Dichloroethene	980	720	250	180	
156-59-2	cis-1,2-Dichloroethene	83,000	720	21,000	180	
156-60-5	trans-1,2-Dichloroethene	ND	730	ND	180	
78-87-5	1,2-Dichloropropane	ND	720	ND	160	
10061-01-5	cis-1,3-Dichloropropene	ND	730	ND	160	
10061-02-6	trans-1,3-Dichloropropene	ND	700	ND	160	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	720	ND	100	
123-91-1	1,4-Dioxane	ND	720	ND	200	
64-17-5	Ethanol	ND	7,300	ND	3,900	
141-78-6	Ethyl Acetate	ND	1,400	ND	380	
100-41-4	Ethylbenzene	ND	720	ND	170	
622-96-8	4-Ethyltoluene	ND	730	ND	150	
142-82-5	n-Heptane	ND	720	ND	180	
87-68-3	Hexachlorobutadiene	ND	720	ND	67	
110-54-3	n-Hexane	ND	720	ND	200	
591-78-6	2-Hexanone	ND	1,400	ND	340	
5989-27-5	d-Limonene	ND	720	ND	130	
78-93-3	2-Butanone (MEK)	ND	1,400	ND	470	
80-62-6	Methyl Methacrylate	ND	1,400	ND	340	
1634-04-4	Methyl tert-Butyl Ether	ND	720	ND	200	
75-09-2	Methylene Chloride	4,800	720	1,400	210	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 April

ALS Project ID: P2102052

ALS Sample ID: P2102052-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01192

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): 0.26 Final Pressure (psig): 5.93

Container Dilution Factor: 1.38

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,400	ND	340	
91-20-3	Naphthalene	ND	720	ND	140	
111-84-2	n-Nonane	ND	730	ND	140	
111-65-9	n-Octane	ND	720	ND	150	
80-56-8	alpha-Pinene	ND	730	ND	130	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,400	ND	560	
115-07-1	Propene	ND	720	ND	420	
103-65-1	n-Propylbenzene	ND	720	ND	150	
100-42-5	Styrene	ND	720	ND	170	
79-34-5	1,1,2,2-Tetrachloroethane	ND	730	ND	110	
127-18-4	Tetrachloroethene	54,000	720	7,900	110	
109-99-9	Tetrahydrofuran (THF)	ND	1,400	ND	470	
108-88-3	Toluene	ND	720	ND	190	
120-82-1	1,2,4-Trichlorobenzene	ND	1,400	ND	190	
71-55-6	1,1,1-Trichloroethane	150,000	1,400	27,000	260	D
79-00-5	1,1,2-Trichloroethane	ND	720	ND	130	
79-01-6	Trichloroethene	33,000	700	6,100	130	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	700	ND	130	
76-13-1	Trichlorotrifluoroethane (CFC 113)	53,000	730	6,900	95	
95-63-6	1,2,4-Trimethylbenzene	ND	720	ND	150	
108-67-8	1,3,5-Trimethylbenzene	ND	730	ND	150	
108-05-4	Vinyl Acetate	ND	7,600	ND	2,200	
75-01-4	Vinyl Chloride	5,500	730	2,200	290	
179601-23-1	m,p-Xylenes	ND	1,400	ND	320	
95-47-6	o-Xylene	ND	730	ND	170	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 April

ALS Project ID: P2102052
 ALS Sample ID: P2102052-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01187

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -0.08 Final Pressure (psig): 7.78

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	2,000	ND	840	
75-05-8	Acetonitrile	ND	200	ND	120	
107-02-8	Acrolein	ND	420	ND	180	
107-13-1	Acrylonitrile	ND	390	ND	180	
71-43-2	Benzene	ND	200	ND	63	
100-44-7	Benzyl Chloride	ND	400	ND	78	
75-27-4	Bromodichloromethane	ND	200	ND	30	
75-25-2	Bromoform	ND	200	ND	20	
74-83-9	Bromomethane	ND	200	ND	52	
106-99-0	1,3-Butadiene	ND	200	ND	91	
123-86-4	n-Butyl Acetate	ND	390	ND	81	
75-15-0	Carbon Disulfide	ND	390	ND	120	
56-23-5	Carbon Tetrachloride	ND	200	ND	31	
108-90-7	Chlorobenzene	ND	200	ND	43	
75-00-3	Chloroethane	ND	200	ND	76	
67-66-3	Chloroform	ND	200	ND	42	
74-87-3	Chloromethane	ND	200	ND	97	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	200	ND	64	
98-82-8	Cumene	ND	200	ND	41	
110-82-7	Cyclohexane	ND	390	ND	110	
124-48-1	Dibromochloromethane	ND	200	ND	24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	390	ND	40	
106-93-4	1,2-Dibromoethane	ND	200	ND	26	
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34	
541-73-1	1,3-Dichlorobenzene	ND	200	ND	34	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 April

ALS Project ID: P2102052
 ALS Sample ID: P2102052-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01187

Date Collected: 4/9/21
 Date Received: 4/20/21
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -0.08 Final Pressure (psig): 7.78

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	200	ND	33	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	200	ND	41	
75-34-3	1,1-Dichloroethane	ND	210	ND	51	
107-06-2	1,2-Dichloroethane	ND	200	ND	49	
75-35-4	1,1-Dichloroethene	ND	200	ND	51	
156-59-2	cis-1,2-Dichloroethene	1,000	200	260	51	
156-60-5	trans-1,2-Dichloroethene	ND	200	ND	51	
78-87-5	1,2-Dichloropropane	ND	200	ND	43	
10061-01-5	cis-1,3-Dichloropropene	ND	200	ND	45	
10061-02-6	trans-1,3-Dichloropropene	ND	200	ND	43	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	200	ND	29	
123-91-1	1,4-Dioxane	ND	200	ND	56	
64-17-5	Ethanol	ND	2,000	ND	1,100	
141-78-6	Ethyl Acetate	ND	390	ND	110	
100-41-4	Ethylbenzene	ND	200	ND	46	
622-96-8	4-Ethyltoluene	ND	200	ND	42	
142-82-5	n-Heptane	ND	200	ND	49	
87-68-3	Hexachlorobutadiene	ND	200	ND	19	
110-54-3	n-Hexane	ND	200	ND	57	
591-78-6	2-Hexanone	ND	390	ND	94	
5989-27-5	d-Limonene	ND	200	ND	36	
78-93-3	2-Butanone (MEK)	ND	390	ND	130	
80-62-6	Methyl Methacrylate	ND	390	ND	94	
1634-04-4	Methyl tert-Butyl Ether	ND	200	ND	56	
75-09-2	Methylene Chloride	ND	200	ND	58	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 April

ALS Project ID: P2102052

ALS Sample ID: P2102052-003

Test Code: EPA TO-15

Date Collected: 4/9/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 4/20/21

Analyst: Simon Cao

Date Analyzed: 4/29/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0040 Liter(s)

Test Notes:

Container ID: 1SS01187

Initial Pressure (psig): -0.08 Final Pressure (psig): 7.78

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	390	ND	94	
91-20-3	Naphthalene	ND	200	ND	38	
111-84-2	n-Nonane	ND	200	ND	39	
111-65-9	n-Octane	ND	200	ND	43	
80-56-8	alpha-Pinene	ND	200	ND	37	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	390	ND	160	
115-07-1	Propene	ND	200	ND	120	
103-65-1	n-Propylbenzene	ND	200	ND	41	
100-42-5	Styrene	ND	200	ND	47	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	ND	30	
127-18-4	Tetrachloroethene	36,000	200	5,300	30	
109-99-9	Tetrahydrofuran (THF)	ND	390	ND	130	
108-88-3	Toluene	ND	200	ND	53	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ND	52	
71-55-6	1,1,1-Trichloroethane	2,700	200	490	37	
79-00-5	1,1,2-Trichloroethane	ND	200	ND	37	
79-01-6	Trichloroethene	3,500	200	650	37	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	200	ND	35	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	200	ND	27	
95-63-6	1,2,4-Trimethylbenzene	ND	200	ND	41	
108-67-8	1,3,5-Trimethylbenzene	ND	200	ND	42	
108-05-4	Vinyl Acetate	ND	2,100	ND	600	
75-01-4	Vinyl Chloride	ND	200	ND	80	
179601-23-1	m,p-Xylenes	ND	390	ND	89	
95-47-6	o-Xylene	ND	200	ND	47	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2102052

ALS Sample ID: P210429-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 4/29/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	0.53	ND	0.32	
107-02-8	Acrolein	ND	1.1	ND	0.48	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.52	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.52	ND	0.078	
75-25-2	Bromoform	ND	0.53	ND	0.051	
74-83-9	Bromomethane	ND	0.52	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
56-23-5	Carbon Tetrachloride	ND	0.51	ND	0.081	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.52	ND	0.20	
67-66-3	Chloroform	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.52	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.52	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
124-48-1	Dibromochloromethane	ND	0.52	ND	0.061	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.53	ND	0.088	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2102052

ALS Sample ID: P210429-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.54	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.52	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.52	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.52	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	ND	0.074	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.3	ND	2.8	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.52	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.52	ND	0.15	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
5989-27-5	d-Limonene	ND	0.52	ND	0.093	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
1634-04-4	Methyl tert-Butyl Ether	ND	0.52	ND	0.14	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2102052
 ALS Sample ID: P210429-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.53	ND	0.10	
111-65-9	n-Octane	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	0.53	ND	0.095	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.52	ND	0.11	
100-42-5	Styrene	ND	0.52	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.51	ND	0.095	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	ND	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.5	ND	1.6	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	0.53	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated

ALS Project ID: P2102052

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 4/9/21
 Date(s) Received: 4/20/21
 Date(s) Analyzed: 4/29/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P210429-MB	105	101	95	70-130	
Lab Control Sample	P210429-LCS	101	97	94	70-130	
Main SVE-April	P2102052-001	103	100	97	70-130	
SVE-5 April	P2102052-002	102	100	96	70-130	
SVE-6 April	P2102052-003	104	99	95	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

ALS Project ID: P2102052

ALS Sample ID: P210429-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 4/29/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
67-64-1	Acetone	1,030	956	93	60-117	
75-05-8	Acetonitrile	202	206	102	59-131	
107-02-8	Acrolein	436	358	82	71-123	
107-13-1	Acrylonitrile	410	400	98	65-130	
71-43-2	Benzene	204	163	80	72-113	
100-44-7	Benzyl Chloride	402	357	89	73-145	
75-27-4	Bromodichloromethane	210	187	89	74-119	
75-25-2	Bromoform	208	189	91	65-149	
74-83-9	Bromomethane	212	192	91	71-112	
106-99-0	1,3-Butadiene	210	229	109	63-135	
123-86-4	n-Butyl Acetate	406	394	97	75-134	
75-15-0	Carbon Disulfide	428	401	94	70-113	
56-23-5	Carbon Tetrachloride	210	177	84	67-123	
108-90-7	Chlorobenzene	206	170	83	70-118	
75-00-3	Chloroethane	204	204	100	66-117	
67-66-3	Chloroform	214	185	86	71-114	
74-87-3	Chloromethane	206	208	101	53-126	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	210	202	96	57-127	
98-82-8	Cumene	208	173	83	69-125	
110-82-7	Cyclohexane	416	374	90	70-119	
124-48-1	Dibromochloromethane	210	189	90	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	370	338	91	72-145	
106-93-4	1,2-Dibromoethane	208	185	89	76-128	
95-50-1	1,2-Dichlorobenzene	206	172	83	64-139	
541-73-1	1,3-Dichlorobenzene	206	170	83	67-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Lab Control Sample

ALS Project ID: P2102052
 ALS Sample ID: P210429-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
106-46-7	1,4-Dichlorobenzene	204	166	81	63-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	177	84	71-112	
75-34-3	1,1-Dichloroethane	212	189	89	70-114	
107-06-2	1,2-Dichloroethane	208	188	90	71-119	
75-35-4	1,1-Dichloroethene	212	190	90	74-114	
156-59-2	cis-1,2-Dichloroethene	208	197	95	73-117	
156-60-5	trans-1,2-Dichloroethene	212	210	99	76-119	
78-87-5	1,2-Dichloropropane	206	187	91	70-118	
10061-01-5	cis-1,3-Dichloropropene	210	208	99	81-126	
10061-02-6	trans-1,3-Dichloropropene	202	215	106	80-127	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	216	176	81	62-121	
123-91-1	1,4-Dioxane	208	170	82	77-124	
64-17-5	Ethanol	998	962	96	57-117	
141-78-6	Ethyl Acetate	422	532	126	59-161	
100-41-4	Ethylbenzene	206	174	84	71-123	
622-96-8	4-Ethyltoluene	210	180	86	69-127	
142-82-5	n-Heptane	210	191	91	70-119	
87-68-3	Hexachlorobutadiene	210	163	78	55-142	
110-54-3	n-Hexane	212	189	89	55-130	
591-78-6	2-Hexanone	404	384	95	74-132	
5989-27-5	d-Limonene	208	194	93	63-137	
78-93-3	2-Butanone (MEK)	412	395	96	74-121	
80-62-6	Methyl Methacrylate	416	394	95	78-126	
1634-04-4	Methyl tert-Butyl Ether	212	237	112	72-118	
75-09-2	Methylene Chloride	208	188	90	75-112	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Lab Control Sample

ALS Project ID: P2102052
 ALS Sample ID: P210429-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/29/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
108-10-1	4-Methyl-2-pentanone	416	418	100	73-129	
91-20-3	Naphthalene	198	169	85	62-156	
111-84-2	n-Nonane	208	183	88	64-127	
111-65-9	n-Octane	210	183	87	68-120	
80-56-8	alpha-Pinene	214	186	87	68-129	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	387	95	61-124	
115-07-1	Propene	210	188	90	56-128	
103-65-1	n-Propylbenzene	208	176	85	70-127	
100-42-5	Styrene	206	167	81	76-132	
79-34-5	1,1,2,2-Tetrachloroethane	206	175	85	69-128	
127-18-4	Tetrachloroethene	206	161	78	63-130	
109-99-9	Tetrahydrofuran (THF)	400	356	89	73-114	
108-88-3	Toluene	206	166	81	70-118	
120-82-1	1,2,4-Trichlorobenzene	388	324	84	62-154	
71-55-6	1,1,1-Trichloroethane	206	179	87	73-119	
79-00-5	1,1,2-Trichloroethane	206	189	92	78-117	
79-01-6	Trichloroethene	206	175	85	74-115	
75-69-4	Trichlorofluoromethane (CFC 11)	204	174	85	71-114	
76-13-1	Trichlorotrifluoroethane (CFC 113)	214	177	83	73-114	
95-63-6	1,2,4-Trimethylbenzene	204	177	87	63-142	
108-67-8	1,3,5-Trimethylbenzene	206	173	84	66-129	
108-05-4	Vinyl Acetate	1,100	786	71	56-137	
75-01-4	Vinyl Chloride	208	201	97	63-123	
179601-23-1	m,p-Xylenes	412	349	85	67-127	
95-47-6	o-Xylene	206	174	84	69-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



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LABORATORY REPORT

June 21, 2021

Project #55929.005 WRR
SVE exhaust 5/28/2021
Reviewed by CCW
7/1/2021

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

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on June 8, 2021. For your reference, these analyses have been assigned our service request number P2103122.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 5:42 pm, Jun 21, 2021

Hayden Akers
Project Manager



Client: Gannett Fleming, Incorporated

Service Request No: P2103122

CASE NARRATIVE

The samples were received intact under chain of custody on June 8, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

Second source verification standards are analyzed following instrument calibration to verify the accuracy of the calibration standards. This check is evaluated using the same criteria as the continuing calibration verification standard. The upper control criterion was exceeded for ethyl acetate in the second source verification for ICAL, however the recovery was within the laboratory generated control limits; therefore, the data quality has not been significantly affected. No corrective action was taken.

The spike recovery for vinyl acetate in the Laboratory Control Sample (LCS) analyzed on June 16, 2021 was outside the lower control criterion. The error associated with reduced recovery equates to a potential low bias; however, a duplicate laboratory control sample (DLCS) was analyzed and the recovery for the analyte in question meets the laboratory generated acceptance limits. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated

Service Request: P2103122

Date Received: 6/8/2021

Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
MAIN SVE EXH-MAY	P2103122-001	Air	5/28/2021	12:50	1SC00462	0.16	5.60	X
SVE 5-MAY	P2103122-002	Air	5/28/2021	12:55	1SC00534	0.07	5.38	X
SVE 6-MAY	P2103122-003	Air	5/28/2021	12:58	1SC00111	0.11	5.46	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH-MAY

ALS Project ID: P2103122
 ALS Sample ID: P2103122-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00462

Date Collected: 5/28/21
 Date Received: 6/8/21
 Date Analyzed: 6/17/21
 Volume(s) Analyzed: 0.00050 Liter(s)

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.60

Container Dilution Factor: 1.37

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	14,000	ND	6,000	
75-05-8	Acetonitrile	ND	1,500	ND	870	
107-02-8	Acrolein	ND	3,000	ND	1,300	
107-13-1	Acrylonitrile	ND	2,700	ND	1,300	
71-43-2	Benzene	ND	1,400	ND	450	
100-44-7	Benzyl Chloride	ND	2,900	ND	560	
75-27-4	Bromodichloromethane	ND	1,400	ND	210	
75-25-2	Bromoform	ND	1,500	ND	140	
74-83-9	Bromomethane	ND	1,400	ND	370	
106-99-0	1,3-Butadiene	ND	1,400	ND	640	
123-86-4	n-Butyl Acetate	ND	2,700	ND	580	
75-15-0	Carbon Disulfide	ND	2,700	ND	880	
56-23-5	Carbon Tetrachloride	ND	1,400	ND	220	
108-90-7	Chlorobenzene	ND	1,400	ND	310	
75-00-3	Chloroethane	ND	1,400	ND	540	
67-66-3	Chloroform	ND	1,500	ND	300	
74-87-3	Chloromethane	ND	1,400	ND	690	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1,400	ND	460	
98-82-8	Cumene	ND	1,400	ND	290	
110-82-7	Cyclohexane	2,900	2,700	850	800	
124-48-1	Dibromochloromethane	ND	1,400	ND	170	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2,700	ND	280	
106-93-4	1,2-Dibromoethane	ND	1,400	ND	190	
95-50-1	1,2-Dichlorobenzene	ND	1,500	ND	240	
541-73-1	1,3-Dichlorobenzene	ND	1,500	ND	240	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-001

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00462

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.60

Container Dilution Factor: 1.37

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	1,400	ND	240	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1,400	ND	290	
75-34-3	1,1-Dichloroethane	4,300	1,500	1,100	370	
107-06-2	1,2-Dichloroethane	ND	1,400	ND	350	
75-35-4	1,1-Dichloroethene	2,500	1,400	630	360	
156-59-2	cis-1,2-Dichloroethene	15,000	1,400	3,800	360	
156-60-5	trans-1,2-Dichloroethene	ND	1,500	ND	370	
78-87-5	1,2-Dichloropropane	ND	1,400	ND	310	
10061-01-5	cis-1,3-Dichloropropene	ND	1,500	ND	320	
10061-02-6	trans-1,3-Dichloropropene	ND	1,400	ND	310	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1,400	ND	200	
123-91-1	1,4-Dioxane	ND	1,400	ND	400	
64-17-5	Ethanol	ND	15,000	ND	7,700	
141-78-6	Ethyl Acetate	ND	2,700	ND	760	
100-41-4	Ethylbenzene	5,200	1,400	1,200	330	
622-96-8	4-Ethyltoluene	ND	1,500	ND	300	
142-82-5	n-Heptane	1,800	1,400	430	350	
87-68-3	Hexachlorobutadiene	ND	1,400	ND	130	
110-54-3	n-Hexane	ND	1,400	ND	400	
591-78-6	2-Hexanone	ND	2,700	ND	670	
5989-27-5	d-Limonene	ND	1,400	ND	260	
78-93-3	2-Butanone (MEK)	ND	2,700	ND	930	
80-62-6	Methyl Methacrylate	ND	2,700	ND	670	
1634-04-4	Methyl tert-Butyl Ether	ND	1,400	ND	400	
75-09-2	Methylene Chloride	21,000	1,400	6,000	410	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-001

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00050 Liter(s)

Test Notes:

Container ID: 1SC00462

Initial Pressure (psig): 0.16 Final Pressure (psig): 5.60

Container Dilution Factor: 1.37

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	2,700	ND	670	
91-20-3	Naphthalene	ND	1,400	ND	270	
111-84-2	n-Nonane	ND	1,500	ND	280	
111-65-9	n-Octane	2,100	1,400	450	310	
80-56-8	alpha-Pinene	ND	1,500	ND	260	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2,700	ND	1,100	
115-07-1	Propene	ND	1,400	ND	830	
103-65-1	n-Propylbenzene	ND	1,400	ND	290	
100-42-5	Styrene	ND	1,400	ND	330	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1,500	ND	210	
127-18-4	Tetrachloroethene	260,000	1,400	38,000	210	
109-99-9	Tetrahydrofuran (THF)	ND	2,700	ND	930	
108-88-3	Toluene	120,000	1,400	31,000	380	
120-82-1	1,2,4-Trichlorobenzene	ND	2,700	ND	370	
71-55-6	1,1,1-Trichloroethane	230,000	1,400	43,000	260	
79-00-5	1,1,2-Trichloroethane	ND	1,400	ND	260	
79-01-6	Trichloroethene	240,000	1,400	45,000	260	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1,400	ND	250	
76-13-1	Trichlorotrifluoroethane (CFC 113)	17,000	1,500	2,200	190	
95-63-6	1,2,4-Trimethylbenzene	ND	1,400	ND	290	
108-67-8	1,3,5-Trimethylbenzene	ND	1,500	ND	300	
108-05-4	Vinyl Acetate	ND	15,000	ND	4,300	
75-01-4	Vinyl Chloride	ND	1,500	ND	570	
179601-23-1	m,p-Xylenes	29,000	2,700	6,700	630	
95-47-6	o-Xylene	9,900	1,500	2,300	330	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 5-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-002

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SC00534

Initial Pressure (psig): 0.07 Final Pressure (psig): 5.38

Container Dilution Factor: 1.36

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	7,100	ND	3,000	
75-05-8	Acetonitrile	ND	720	ND	430	
107-02-8	Acrolein	ND	1,500	ND	650	
107-13-1	Acrylonitrile	ND	1,400	ND	630	
71-43-2	Benzene	ND	710	ND	220	
100-44-7	Benzyl Chloride	ND	1,400	ND	280	
75-27-4	Bromodichloromethane	ND	710	ND	110	
75-25-2	Bromoform	ND	720	ND	70	
74-83-9	Bromomethane	ND	710	ND	180	
106-99-0	1,3-Butadiene	ND	710	ND	320	
123-86-4	n-Butyl Acetate	ND	1,400	ND	290	
75-15-0	Carbon Disulfide	ND	1,400	ND	440	
56-23-5	Carbon Tetrachloride	ND	690	ND	110	
108-90-7	Chlorobenzene	ND	710	ND	150	
75-00-3	Chloroethane	10,000	710	3,800	270	
67-66-3	Chloroform	ND	720	ND	150	
74-87-3	Chloromethane	ND	710	ND	340	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	710	ND	230	
98-82-8	Cumene	ND	710	ND	140	
110-82-7	Cyclohexane	ND	1,400	ND	400	
124-48-1	Dibromochloromethane	ND	710	ND	83	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,400	ND	140	
106-93-4	1,2-Dibromoethane	ND	710	ND	92	
95-50-1	1,2-Dichlorobenzene	ND	720	ND	120	
541-73-1	1,3-Dichlorobenzene	ND	720	ND	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 5-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-002

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SC00534

Initial Pressure (psig): 0.07 Final Pressure (psig): 5.38

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	710	ND	120	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	710	ND	140	
75-34-3	1,1-Dichloroethane	15,000	730	3,700	180	
107-06-2	1,2-Dichloroethane	ND	710	ND	170	
75-35-4	1,1-Dichloroethene	ND	710	ND	180	
156-59-2	cis-1,2-Dichloroethene	45,000	710	11,000	180	
156-60-5	trans-1,2-Dichloroethene	ND	720	ND	180	
78-87-5	1,2-Dichloropropane	ND	710	ND	150	
10061-01-5	cis-1,3-Dichloropropene	ND	720	ND	160	
10061-02-6	trans-1,3-Dichloropropene	ND	690	ND	150	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	710	ND	100	
123-91-1	1,4-Dioxane	ND	710	ND	200	
64-17-5	Ethanol	ND	7,200	ND	3,800	
141-78-6	Ethyl Acetate	ND	1,400	ND	380	
100-41-4	Ethylbenzene	ND	710	ND	160	
622-96-8	4-Ethyltoluene	ND	720	ND	150	
142-82-5	n-Heptane	ND	710	ND	170	
87-68-3	Hexachlorobutadiene	ND	710	ND	66	
110-54-3	n-Hexane	ND	710	ND	200	
591-78-6	2-Hexanone	ND	1,400	ND	330	
5989-27-5	d-Limonene	ND	710	ND	130	
78-93-3	2-Butanone (MEK)	ND	1,400	ND	460	
80-62-6	Methyl Methacrylate	ND	1,400	ND	330	
1634-04-4	Methyl tert-Butyl Ether	ND	710	ND	200	
75-09-2	Methylene Chloride	ND	710	ND	200	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 5-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-002

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SC00534

Initial Pressure (psig): 0.07 Final Pressure (psig): 5.38

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,400	ND	330	
91-20-3	Naphthalene	ND	710	ND	130	
111-84-2	n-Nonane	ND	720	ND	140	
111-65-9	n-Octane	ND	710	ND	150	
80-56-8	alpha-Pinene	ND	720	ND	130	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,400	ND	550	
115-07-1	Propene	ND	710	ND	410	
103-65-1	n-Propylbenzene	ND	710	ND	140	
100-42-5	Styrene	ND	710	ND	170	
79-34-5	1,1,2,2-Tetrachloroethane	ND	720	ND	110	
127-18-4	Tetrachloroethene	67,000	710	9,900	100	
109-99-9	Tetrahydrofuran (THF)	ND	1,400	ND	460	
108-88-3	Toluene	ND	710	ND	190	
120-82-1	1,2,4-Trichlorobenzene	ND	1,400	ND	180	
71-55-6	1,1,1-Trichloroethane	120,000	710	22,000	130	
79-00-5	1,1,2-Trichloroethane	ND	710	ND	130	
79-01-6	Trichloroethene	32,000	690	6,000	130	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	690	ND	120	
76-13-1	Trichlorotrifluoroethane (CFC 113)	27,000	720	3,600	94	
95-63-6	1,2,4-Trimethylbenzene	ND	710	ND	140	
108-67-8	1,3,5-Trimethylbenzene	ND	720	ND	150	
108-05-4	Vinyl Acetate	ND	7,500	ND	2,100	
75-01-4	Vinyl Chloride	ND	720	ND	280	
179601-23-1	m,p-Xylenes	ND	1,400	ND	310	
95-47-6	o-Xylene	ND	720	ND	170	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 6-MAY

ALS Project ID: P2103122
 ALS Sample ID: P2103122-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00111

Date Collected: 5/28/21
 Date Received: 6/8/21
 Date Analyzed: 6/17/21
 Volume(s) Analyzed: 0.0015 Liter(s)

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.46

Container Dilution Factor: 1.36

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
67-64-1	Acetone	ND	4,700	ND	2,000	
75-05-8	Acetonitrile	ND	480	ND	290	
107-02-8	Acrolein	ND	1,000	ND	440	
107-13-1	Acrylonitrile	ND	910	ND	420	
71-43-2	Benzene	ND	470	ND	150	
100-44-7	Benzyl Chloride	ND	950	ND	180	
75-27-4	Bromodichloromethane	ND	470	ND	70	
75-25-2	Bromoform	ND	480	ND	46	
74-83-9	Bromomethane	ND	470	ND	120	
106-99-0	1,3-Butadiene	ND	470	ND	210	
123-86-4	n-Butyl Acetate	ND	910	ND	190	
75-15-0	Carbon Disulfide	ND	910	ND	290	
56-23-5	Carbon Tetrachloride	ND	460	ND	74	
108-90-7	Chlorobenzene	ND	470	ND	100	
75-00-3	Chloroethane	ND	470	ND	180	
67-66-3	Chloroform	ND	480	ND	98	
74-87-3	Chloromethane	ND	470	ND	230	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	470	ND	150	
98-82-8	Cumene	ND	470	ND	96	
110-82-7	Cyclohexane	ND	910	ND	260	
124-48-1	Dibromochloromethane	ND	470	ND	55	
96-12-8	1,2-Dibromo-3-chloropropane	ND	910	ND	94	
106-93-4	1,2-Dibromoethane	ND	470	ND	61	
95-50-1	1,2-Dichlorobenzene	ND	480	ND	80	
541-73-1	1,3-Dichlorobenzene	ND	480	ND	80	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 6-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-003

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00111

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.46

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	470	ND	78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	470	ND	95	
75-34-3	1,1-Dichloroethane	ND	490	ND	120	
107-06-2	1,2-Dichloroethane	ND	470	ND	120	
75-35-4	1,1-Dichloroethene	ND	470	ND	120	
156-59-2	cis-1,2-Dichloroethene	690	470	170	120	
156-60-5	trans-1,2-Dichloroethene	ND	480	ND	120	
78-87-5	1,2-Dichloropropane	ND	470	ND	100	
10061-01-5	cis-1,3-Dichloropropene	ND	480	ND	110	
10061-02-6	trans-1,3-Dichloropropene	ND	460	ND	100	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	470	ND	67	
123-91-1	1,4-Dioxane	ND	470	ND	130	
64-17-5	Ethanol	ND	4,800	ND	2,600	
141-78-6	Ethyl Acetate	ND	910	ND	250	
100-41-4	Ethylbenzene	ND	470	ND	110	
622-96-8	4-Ethyltoluene	ND	480	ND	98	
142-82-5	n-Heptane	ND	470	ND	120	
87-68-3	Hexachlorobutadiene	ND	470	ND	44	
110-54-3	n-Hexane	ND	470	ND	130	
591-78-6	2-Hexanone	ND	910	ND	220	
5989-27-5	d-Limonene	ND	470	ND	85	
78-93-3	2-Butanone (MEK)	ND	910	ND	310	
80-62-6	Methyl Methacrylate	ND	910	ND	220	
1634-04-4	Methyl tert-Butyl Ether	ND	470	ND	130	
75-09-2	Methylene Chloride	ND	470	ND	140	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 6-MAY

ALS Project ID: P2103122

ALS Sample ID: P2103122-003

Test Code: EPA TO-15

Date Collected: 5/28/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 6/8/21

Analyst: Wida Ang

Date Analyzed: 6/17/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00111

Initial Pressure (psig): 0.11 Final Pressure (psig): 5.46

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	910	ND	220	
91-20-3	Naphthalene	ND	470	ND	90	
111-84-2	n-Nonane	ND	480	ND	92	
111-65-9	n-Octane	ND	470	ND	100	
80-56-8	alpha-Pinene	ND	480	ND	86	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	910	ND	370	
115-07-1	Propene	ND	470	ND	270	
103-65-1	n-Propylbenzene	ND	470	ND	96	
100-42-5	Styrene	ND	470	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	480	ND	70	
127-18-4	Tetrachloroethene	66,000	470	9,700	70	
109-99-9	Tetrahydrofuran (THF)	ND	910	ND	310	
108-88-3	Toluene	ND	470	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	910	ND	120	
71-55-6	1,1,1-Trichloroethane	2,800	470	510	86	
79-00-5	1,1,2-Trichloroethane	ND	470	ND	86	
79-01-6	Trichloroethene	4,000	460	750	86	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	460	ND	82	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	480	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	470	ND	96	
108-67-8	1,3,5-Trimethylbenzene	ND	480	ND	98	
108-05-4	Vinyl Acetate	ND	5,000	ND	1,400	
75-01-4	Vinyl Chloride	ND	480	ND	190	
179601-23-1	m,p-Xylenes	ND	910	ND	210	
95-47-6	o-Xylene	ND	480	ND	110	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2103122

ALS Sample ID: P210616-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 6/16/21

Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	0.53	ND	0.32	
107-02-8	Acrolein	ND	1.1	ND	0.48	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.52	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.52	ND	0.078	
75-25-2	Bromoform	ND	0.53	ND	0.051	
74-83-9	Bromomethane	ND	0.52	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
56-23-5	Carbon Tetrachloride	ND	0.51	ND	0.081	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.52	ND	0.20	
67-66-3	Chloroform	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.52	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.52	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
124-48-1	Dibromochloromethane	ND	0.52	ND	0.061	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.53	ND	0.088	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2103122

ALS Sample ID: P210616-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/16/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.54	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.52	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.52	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.52	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	ND	0.074	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.3	ND	2.8	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.52	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.52	ND	0.15	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
5989-27-5	d-Limonene	ND	0.52	ND	0.093	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
1634-04-4	Methyl tert-Butyl Ether	ND	0.52	ND	0.14	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2103122
 ALS Sample ID: P210616-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/16/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.53	ND	0.10	
111-65-9	n-Octane	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	0.53	ND	0.095	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.52	ND	0.11	
100-42-5	Styrene	ND	0.52	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.51	ND	0.095	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	ND	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.5	ND	1.6	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	0.53	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated

ALS Project ID: P2103122

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/28/21
 Date(s) Received: 6/8/21
 Date(s) Analyzed: 6/16 - 6/17/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P210616-MB	91	105	115	70-130	
Lab Control Sample	P210616-LCS	94	100	118	70-130	
MAIN SVE EXH-MAY	P2103122-001	93	110	110	70-130	
SVE 5-MAY	P2103122-002	93	110	106	70-130	
SVE 6-MAY	P2103122-003	93	109	106	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

ALS Project ID: P2103122

ALS Sample ID: P210616-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/16/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
67-64-1	Acetone	1,030	767	74	60-117	
75-05-8	Acetonitrile	202	147	73	59-131	
107-02-8	Acrolein	436	322	74	71-123	
107-13-1	Acrylonitrile	410	321	78	65-130	
71-43-2	Benzene	204	161	79	72-113	
100-44-7	Benzyl Chloride	402	403	100	73-145	
75-27-4	Bromodichloromethane	210	168	80	74-119	
75-25-2	Bromoform	208	204	98	65-149	
74-83-9	Bromomethane	212	154	73	71-112	
106-99-0	1,3-Butadiene	210	154	73	63-135	
123-86-4	n-Butyl Acetate	406	362	89	75-134	
75-15-0	Carbon Disulfide	428	303	71	70-113	
56-23-5	Carbon Tetrachloride	210	161	77	67-123	
108-90-7	Chlorobenzene	206	166	81	70-118	
75-00-3	Chloroethane	204	146	72	66-117	
67-66-3	Chloroform	214	160	75	71-114	
74-87-3	Chloromethane	206	149	72	53-126	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	210	137	65	57-127	
98-82-8	Cumene	208	180	87	69-125	
110-82-7	Cyclohexane	416	327	79	70-119	
124-48-1	Dibromochloromethane	210	186	89	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	370	347	94	72-145	
106-93-4	1,2-Dibromoethane	208	191	92	76-128	
95-50-1	1,2-Dichlorobenzene	206	203	99	64-139	
541-73-1	1,3-Dichlorobenzene	206	189	92	67-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

ALS Project ID: P2103122

ALS Sample ID: P210616-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/16/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
106-46-7	1,4-Dichlorobenzene	204	193	95	63-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	152	72	71-112	
75-34-3	1,1-Dichloroethane	212	154	73	70-114	
107-06-2	1,2-Dichloroethane	208	158	76	71-119	
75-35-4	1,1-Dichloroethene	212	159	75	74-114	
156-59-2	cis-1,2-Dichloroethene	208	157	75	73-117	
156-60-5	trans-1,2-Dichloroethene	212	165	78	76-119	
78-87-5	1,2-Dichloropropane	206	157	76	70-118	
10061-01-5	cis-1,3-Dichloropropene	210	182	87	81-126	
10061-02-6	trans-1,3-Dichloropropene	202	173	86	80-127	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	216	163	75	62-121	
123-91-1	1,4-Dioxane	208	172	83	77-124	
64-17-5	Ethanol	998	635	64	57-117	
141-78-6	Ethyl Acetate	422	491	116	59-161	
100-41-4	Ethylbenzene	206	176	85	71-123	
622-96-8	4-Ethyltoluene	210	202	96	69-127	
142-82-5	n-Heptane	210	163	78	70-119	
87-68-3	Hexachlorobutadiene	210	189	90	55-142	
110-54-3	n-Hexane	212	170	80	55-130	
591-78-6	2-Hexanone	404	349	86	74-132	
5989-27-5	d-Limonene	208	180	87	63-137	
78-93-3	2-Butanone (MEK)	412	327	79	74-121	
80-62-6	Methyl Methacrylate	416	398	96	78-126	
1634-04-4	Methyl tert-Butyl Ether	212	159	75	72-118	
75-09-2	Methylene Chloride	208	156	75	75-112	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

ALS Project ID: P2103122

ALS Sample ID: P210616-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 6/16/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
108-10-1	4-Methyl-2-pentanone	416	336	81	73-129	
91-20-3	Naphthalene	198	194	98	62-156	
111-84-2	n-Nonane	208	162	78	64-127	
111-65-9	n-Octane	210	161	77	68-120	
80-56-8	alpha-Pinene	214	184	86	68-129	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	330	81	61-124	
115-07-1	Propene	210	134	64	56-128	
103-65-1	n-Propylbenzene	208	187	90	70-127	
100-42-5	Styrene	206	187	91	76-132	
79-34-5	1,1,2,2-Tetrachloroethane	206	174	84	69-128	
127-18-4	Tetrachloroethene	206	178	86	63-130	
109-99-9	Tetrahydrofuran (THF)	400	293	73	73-114	
108-88-3	Toluene	206	164	80	70-118	
120-82-1	1,2,4-Trichlorobenzene	388	376	97	62-154	
71-55-6	1,1,1-Trichloroethane	206	158	77	73-119	
79-00-5	1,1,2-Trichloroethane	206	171	83	78-117	
79-01-6	Trichloroethene	206	170	83	74-115	
75-69-4	Trichlorofluoromethane (CFC 11)	204	148	73	71-114	
76-13-1	Trichlorotrifluoroethane (CFC 113)	214	164	77	73-114	
95-63-6	1,2,4-Trimethylbenzene	204	203	100	63-142	
108-67-8	1,3,5-Trimethylbenzene	206	180	87	66-129	
108-05-4	Vinyl Acetate	1,100	603	55	56-137	L
75-01-4	Vinyl Chloride	208	155	75	63-123	
179601-23-1	m,p-Xylenes	412	356	86	67-127	
95-47-6	o-Xylene	206	178	86	69-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased low.



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LABORATORY REPORT

July 28, 2021

Project #55929.005 WRR
SVE exhaust 6/29/2021
Reviewed by CCW
7/29/2021

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

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on July 14, 2021. For your reference, these analyses have been assigned our service request number P2103737.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 2:02 pm, Jul 28, 2021

Hayden Akers
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated

Service Request No: P2103737

CASE NARRATIVE

The samples were received intact under chain of custody on July 14, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for methyl methacrylate in the Laboratory Control Samples (LCS/DLCS) analyzed on July 22, 2021(2). The analyte in question was not detected in the associated field samples. Since the error associated with the elevated recovery equates to a high bias, the sample data has not been significantly affected. The data has been flagged accordingly. No corrective action was required.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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 Simi Valley, CA 93065
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated

Service Request: P2103737

Date Received: 7/14/2021

Time Received: 09:30

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
MAIN SVE EXH-JUNE	P2103737-001	Air	6/29/2021	17:10	1SC01063	-0.35	6.20	X
SVE-6 EXH-JUNE	P2103737-002	Air	6/29/2021	17:00	1SC00767	-0.43	6.16	X
SVE-5 EXH-JUNE	P2103737-003	Air	6/29/2021	17:05	1SS00248	-0.32	6.20	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-001

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SC01063

Initial Pressure (psig): -0.35 Final Pressure (psig): 6.20

Container Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	11,000	ND	4,600	
75-05-8	Acetonitrile	ND	1,100	ND	660	
107-02-8	Acrolein	ND	2,300	ND	1,000	
107-13-1	Acrylonitrile	ND	2,100	ND	960	
71-43-2	Benzene	ND	1,100	ND	340	
100-44-7	Benzyl Chloride	ND	2,200	ND	420	
75-27-4	Bromodichloromethane	ND	1,100	ND	160	
75-25-2	Bromoform	ND	1,100	ND	110	
74-83-9	Bromomethane	ND	1,100	ND	280	
106-99-0	1,3-Butadiene	ND	1,100	ND	490	
123-86-4	n-Butyl Acetate	ND	2,100	ND	440	
75-15-0	Carbon Disulfide	ND	2,100	ND	670	
56-23-5	Carbon Tetrachloride	ND	1,100	ND	170	
108-90-7	Chlorobenzene	ND	1,100	ND	240	
75-00-3	Chloroethane	ND	1,100	ND	410	
67-66-3	Chloroform	ND	1,100	ND	230	
74-87-3	Chloromethane	ND	1,100	ND	530	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1,100	ND	350	
98-82-8	Cumene	ND	1,100	ND	220	
110-82-7	Cyclohexane	3,900	2,100	1,100	610	
124-48-1	Dibromochloromethane	ND	1,100	ND	130	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2,100	ND	220	
106-93-4	1,2-Dibromoethane	ND	1,100	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	1,100	ND	180	
541-73-1	1,3-Dichlorobenzene	ND	1,100	ND	180	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-001

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SC01063

Initial Pressure (psig): -0.35 Final Pressure (psig): 6.20

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	1,100	ND	180	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1,100	ND	220	
75-34-3	1,1-Dichloroethane	4,200	1,100	1,000	280	
107-06-2	1,2-Dichloroethane	ND	1,100	ND	270	
75-35-4	1,1-Dichloroethene	1,400	1,100	360	270	
156-59-2	cis-1,2-Dichloroethene	16,000	1,100	4,100	270	
156-60-5	trans-1,2-Dichloroethene	ND	1,100	ND	280	
78-87-5	1,2-Dichloropropane	ND	1,100	ND	230	
10061-01-5	cis-1,3-Dichloropropene	ND	1,100	ND	240	
10061-02-6	trans-1,3-Dichloropropene	ND	1,100	ND	230	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1,100	ND	160	
123-91-1	1,4-Dioxane	ND	1,100	ND	300	
64-17-5	Ethanol	ND	11,000	ND	5,900	
141-78-6	Ethyl Acetate	ND	2,100	ND	580	
100-41-4	Ethylbenzene	9,800	1,100	2,300	250	
622-96-8	4-Ethyltoluene	ND	1,100	ND	220	
142-82-5	n-Heptane	2,400	1,100	580	260	
87-68-3	Hexachlorobutadiene	ND	1,100	ND	100	
110-54-3	n-Hexane	ND	1,100	ND	310	
591-78-6	2-Hexanone	ND	2,100	ND	510	
5989-27-5	d-Limonene	ND	1,100	ND	190	
78-93-3	2-Butanone (MEK)	ND	2,100	ND	710	
80-62-6	Methyl Methacrylate	ND	2,100	ND	510	
1634-04-4	Methyl tert-Butyl Ether	ND	1,100	ND	300	
75-09-2	Methylene Chloride	3,300	1,100	950	310	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-001

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.00070 Liter(s)

Test Notes:

Container ID: 1SC01063

Initial Pressure (psig): -0.35 Final Pressure (psig): 6.20

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	2,100	ND	510	
91-20-3	Naphthalene	ND	1,100	ND	210	
111-84-2	n-Nonane	1,600	1,100	310	210	
111-65-9	n-Octane	3,000	1,100	650	230	
80-56-8	alpha-Pinene	ND	1,100	ND	200	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	2,100	ND	850	
115-07-1	Propene	ND	1,100	ND	630	
103-65-1	n-Propylbenzene	ND	1,100	ND	220	
100-42-5	Styrene	ND	1,100	ND	250	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1,100	ND	160	
127-18-4	Tetrachloroethene	140,000	1,100	21,000	160	
109-99-9	Tetrahydrofuran (THF)	ND	2,100	ND	710	
108-88-3	Toluene	150,000	1,100	40,000	290	
120-82-1	1,2,4-Trichlorobenzene	ND	2,100	ND	280	
71-55-6	1,1,1-Trichloroethane	140,000	1,100	26,000	200	
79-00-5	1,1,2-Trichloroethane	ND	1,100	ND	200	
79-01-6	Trichloroethene	130,000	1,100	25,000	200	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1,100	ND	190	
76-13-1	Trichlorotrifluoroethane (CFC 113)	15,000	1,100	2,000	140	
95-63-6	1,2,4-Trimethylbenzene	ND	1,100	ND	220	
108-67-8	1,3,5-Trimethylbenzene	ND	1,100	ND	220	
108-05-4	Vinyl Acetate	ND	11,000	ND	3,300	
75-01-4	Vinyl Chloride	ND	1,100	ND	430	
179601-23-1	m,p-Xylenes	50,000	2,100	12,000	480	
95-47-6	o-Xylene	17,000	1,100	3,900	250	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-002

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00767

Initial Pressure (psig): -0.43 Final Pressure (psig): 6.16

Container Dilution Factor: 1.46

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5,100	ND	2,100	
75-05-8	Acetonitrile	ND	520	ND	310	
107-02-8	Acrolein	ND	1,100	ND	470	
107-13-1	Acrylonitrile	ND	970	ND	450	
71-43-2	Benzene	ND	510	ND	160	
100-44-7	Benzyl Chloride	ND	1,000	ND	200	
75-27-4	Bromodichloromethane	ND	510	ND	76	
75-25-2	Bromoform	ND	520	ND	50	
74-83-9	Bromomethane	ND	510	ND	130	
106-99-0	1,3-Butadiene	ND	510	ND	230	
123-86-4	n-Butyl Acetate	ND	970	ND	200	
75-15-0	Carbon Disulfide	ND	970	ND	310	
56-23-5	Carbon Tetrachloride	ND	500	ND	79	
108-90-7	Chlorobenzene	ND	510	ND	110	
75-00-3	Chloroethane	ND	510	ND	190	
67-66-3	Chloroform	ND	520	ND	110	
74-87-3	Chloromethane	ND	510	ND	250	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	510	ND	160	
98-82-8	Cumene	ND	510	ND	100	
110-82-7	Cyclohexane	ND	970	ND	280	
124-48-1	Dibromochloromethane	ND	510	ND	59	
96-12-8	1,2-Dibromo-3-chloropropane	ND	970	ND	100	
106-93-4	1,2-Dibromoethane	ND	510	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	520	ND	86	
541-73-1	1,3-Dichlorobenzene	ND	520	ND	86	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-002

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00767

Initial Pressure (psig): -0.43 Final Pressure (psig): 6.16

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	510	ND	84	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	510	ND	100	
75-34-3	1,1-Dichloroethane	ND	530	ND	130	
107-06-2	1,2-Dichloroethane	ND	510	ND	130	
75-35-4	1,1-Dichloroethene	ND	510	ND	130	
156-59-2	cis-1,2-Dichloroethene	890	510	220	130	
156-60-5	trans-1,2-Dichloroethene	ND	520	ND	130	
78-87-5	1,2-Dichloropropane	ND	510	ND	110	
10061-01-5	cis-1,3-Dichloropropene	ND	520	ND	110	
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	510	ND	72	
123-91-1	1,4-Dioxane	ND	510	ND	140	
64-17-5	Ethanol	ND	5,200	ND	2,700	
141-78-6	Ethyl Acetate	ND	970	ND	270	
100-41-4	Ethylbenzene	ND	510	ND	120	
622-96-8	4-Ethyltoluene	ND	520	ND	100	
142-82-5	n-Heptane	ND	510	ND	120	
87-68-3	Hexachlorobutadiene	ND	510	ND	47	
110-54-3	n-Hexane	ND	510	ND	140	
591-78-6	2-Hexanone	ND	970	ND	240	
5989-27-5	d-Limonene	ND	510	ND	91	
78-93-3	2-Butanone (MEK)	ND	970	ND	330	
80-62-6	Methyl Methacrylate	ND	970	ND	240	
1634-04-4	Methyl tert-Butyl Ether	ND	510	ND	140	
75-09-2	Methylene Chloride	ND	510	ND	150	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-002

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.0015 Liter(s)

Test Notes:

Container ID: 1SC00767

Initial Pressure (psig): -0.43 Final Pressure (psig): 6.16

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	970	ND	240	
91-20-3	Naphthalene	ND	510	ND	97	
111-84-2	n-Nonane	ND	520	ND	98	
111-65-9	n-Octane	ND	510	ND	110	
80-56-8	alpha-Pinene	ND	520	ND	93	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	970	ND	400	
115-07-1	Propene	ND	510	ND	290	
103-65-1	n-Propylbenzene	ND	510	ND	100	
100-42-5	Styrene	ND	510	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	520	ND	75	
127-18-4	Tetrachloroethene	78,000	510	12,000	75	
109-99-9	Tetrahydrofuran (THF)	ND	970	ND	330	
108-88-3	Toluene	ND	510	ND	130	
120-82-1	1,2,4-Trichlorobenzene	ND	970	ND	130	
71-55-6	1,1,1-Trichloroethane	8,700	510	1,600	93	
79-00-5	1,1,2-Trichloroethane	ND	510	ND	93	
79-01-6	Trichloroethene	10,000	500	1,900	92	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	500	ND	88	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	520	ND	67	
95-63-6	1,2,4-Trimethylbenzene	ND	510	ND	100	
108-67-8	1,3,5-Trimethylbenzene	ND	520	ND	100	
108-05-4	Vinyl Acetate	ND	5,400	ND	1,500	
75-01-4	Vinyl Chloride	ND	520	ND	200	
179601-23-1	m,p-Xylenes	ND	970	ND	220	
95-47-6	o-Xylene	ND	520	ND	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-003

Test Code: EPA TO-15

Date Collected: 6/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 7/14/21

Analyst: Wida Ang

Date Analyzed: 7/23/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.00075 Liter(s)

Test Notes:

0.00025 Liter(s)

Container ID: 1SS00248

Initial Pressure (psig): -0.32 Final Pressure (psig): 6.20

Container Dilution Factor: 1.45

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	10,000	ND	4,200	
75-05-8	Acetonitrile	ND	1,000	ND	610	
107-02-8	Acrolein	ND	2,100	ND	930	
107-13-1	Acrylonitrile	ND	1,900	ND	890	
71-43-2	Benzene	ND	1,000	ND	310	
100-44-7	Benzyl Chloride	ND	2,000	ND	390	
75-27-4	Bromodichloromethane	ND	1,000	ND	150	
75-25-2	Bromoform	ND	1,000	ND	99	
74-83-9	Bromomethane	ND	1,000	ND	260	
106-99-0	1,3-Butadiene	ND	1,000	ND	450	
123-86-4	n-Butyl Acetate	ND	1,900	ND	410	
75-15-0	Carbon Disulfide	ND	1,900	ND	620	
56-23-5	Carbon Tetrachloride	ND	990	ND	160	
108-90-7	Chlorobenzene	ND	1,000	ND	220	
75-00-3	Chloroethane	19,000	1,000	7,100	380	
67-66-3	Chloroform	ND	1,000	ND	210	
74-87-3	Chloromethane	ND	1,000	ND	490	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1,000	ND	320	
98-82-8	Cumene	ND	1,000	ND	200	
110-82-7	Cyclohexane	ND	1,900	ND	560	
124-48-1	Dibromochloromethane	ND	1,000	ND	120	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,900	ND	200	
106-93-4	1,2-Dibromoethane	ND	1,000	ND	130	
95-50-1	1,2-Dichlorobenzene	ND	1,000	ND	170	
541-73-1	1,3-Dichlorobenzene	ND	1,000	ND	170	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00248

Date Collected: 6/29/21
 Date Received: 7/14/21
 Date Analyzed: 7/23/21
 Volume(s) Analyzed: 0.00075 Liter(s)
 0.00025 Liter(s)

Initial Pressure (psig): -0.32 Final Pressure (psig): 6.20

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	1,000	ND	170	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	1,000	ND	200	
75-34-3	1,1-Dichloroethane	28,000	1,000	7,000	260	
107-06-2	1,2-Dichloroethane	ND	1,000	ND	250	
75-35-4	1,1-Dichloroethene	1,300	1,000	330	250	
156-59-2	cis-1,2-Dichloroethene	79,000	1,000	20,000	250	
156-60-5	trans-1,2-Dichloroethene	ND	1,000	ND	260	
78-87-5	1,2-Dichloropropane	ND	1,000	ND	220	
10061-01-5	cis-1,3-Dichloropropene	ND	1,000	ND	230	
10061-02-6	trans-1,3-Dichloropropene	ND	990	ND	220	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1,000	ND	140	
123-91-1	1,4-Dioxane	ND	1,000	ND	280	
64-17-5	Ethanol	ND	10,000	ND	5,400	
141-78-6	Ethyl Acetate	ND	1,900	ND	540	
100-41-4	Ethylbenzene	ND	1,000	ND	230	
622-96-8	4-Ethyltoluene	ND	1,000	ND	210	
142-82-5	n-Heptane	ND	1,000	ND	250	
87-68-3	Hexachlorobutadiene	ND	1,000	ND	94	
110-54-3	n-Hexane	ND	1,000	ND	290	
591-78-6	2-Hexanone	ND	1,900	ND	470	
5989-27-5	d-Limonene	ND	1,000	ND	180	
78-93-3	2-Butanone (MEK)	ND	1,900	ND	660	
80-62-6	Methyl Methacrylate	ND	1,900	ND	470	
1634-04-4	Methyl tert-Butyl Ether	ND	1,000	ND	280	
75-09-2	Methylene Chloride	ND	1,000	ND	290	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 EXH-JUNE

ALS Project ID: P2103737

ALS Sample ID: P2103737-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00248

Date Collected: 6/29/21
 Date Received: 7/14/21
 Date Analyzed: 7/23/21
 Volume(s) Analyzed: 0.00075 Liter(s)
 0.00025 Liter(s)

Initial Pressure (psig): -0.32 Final Pressure (psig): 6.20

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,900	ND	470	
91-20-3	Naphthalene	ND	1,000	ND	190	
111-84-2	n-Nonane	ND	1,000	ND	200	
111-65-9	n-Octane	ND	1,000	ND	220	
80-56-8	alpha-Pinene	ND	1,000	ND	180	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,900	ND	790	
115-07-1	Propene	ND	1,000	ND	580	
103-65-1	n-Propylbenzene	ND	1,000	ND	200	
100-42-5	Styrene	ND	1,000	ND	240	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1,000	ND	150	
127-18-4	Tetrachloroethene	140,000	1,000	21,000	150	
109-99-9	Tetrahydrofuran (THF)	ND	1,900	ND	660	
108-88-3	Toluene	ND	1,000	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	1,900	ND	260	
71-55-6	1,1,1-Trichloroethane	200,000	3,000	37,000	550	D
79-00-5	1,1,2-Trichloroethane	ND	1,000	ND	180	
79-01-6	Trichloroethene	75,000	990	14,000	180	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	990	ND	180	
76-13-1	Trichlorotrifluoroethane (CFC 113)	42,000	1,000	5,500	130	
95-63-6	1,2,4-Trimethylbenzene	ND	1,000	ND	200	
108-67-8	1,3,5-Trimethylbenzene	ND	1,000	ND	210	
108-05-4	Vinyl Acetate	ND	11,000	ND	3,000	
75-01-4	Vinyl Chloride	ND	1,000	ND	400	
179601-23-1	m,p-Xylenes	ND	1,900	ND	450	
95-47-6	o-Xylene	ND	1,000	ND	240	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2103737

ALS Sample ID: P210722-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 7/22/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	0.53	ND	0.32	
107-02-8	Acrolein	ND	1.1	ND	0.48	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.52	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.20	
75-27-4	Bromodichloromethane	ND	0.52	ND	0.078	
75-25-2	Bromoform	ND	0.53	ND	0.051	
74-83-9	Bromomethane	ND	0.52	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.0	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
56-23-5	Carbon Tetrachloride	ND	0.51	ND	0.081	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.52	ND	0.20	
67-66-3	Chloroform	ND	0.53	ND	0.11	
74-87-3	Chloromethane	ND	0.52	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.52	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.0	ND	0.29	
124-48-1	Dibromochloromethane	ND	0.52	ND	0.061	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.53	ND	0.088	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2103737

ALS Sample ID: P210722-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 7/22/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.54	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.52	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.52	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.52	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.52	ND	0.074	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.3	ND	2.8	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.52	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.52	ND	0.15	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
5989-27-5	d-Limonene	ND	0.52	ND	0.093	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.24	
1634-04-4	Methyl tert-Butyl Ether	ND	0.52	ND	0.14	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2103737
 ALS Sample ID: P210722-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 7/22/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.53	ND	0.10	
111-65-9	n-Octane	ND	0.52	ND	0.11	
80-56-8	alpha-Pinene	ND	0.53	ND	0.095	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.52	ND	0.11	
100-42-5	Styrene	ND	0.52	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	ND	0.077	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.13	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.51	ND	0.095	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	ND	0.091	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.53	ND	0.069	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.53	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.5	ND	1.6	
75-01-4	Vinyl Chloride	ND	0.53	ND	0.21	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	0.53	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated

ALS Project ID: P2103737

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 6/29/21
 Date(s) Received: 7/14/21
 Date(s) Analyzed: 7/22 - 7/23/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P210722-MB	97	103	107	70-130	
Lab Control Sample	P210722-LCS	103	103	113	70-130	
Duplicate Lab Control Sample	P210722-DLCS	101	104	114	70-130	
MAIN SVE EXH-JUNE	P2103737-001	96	107	110	70-130	
SVE-6 EXH-JUNE	P2103737-002	98	106	106	70-130	
SVE-5 EXH-JUNE	P2103737-003	96	105	105	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2103737
 ALS Sample ID: P210722-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 7/23/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,030	921	915	89	89	60-117	0	25	
75-05-8	Acetonitrile	202	204	198	101	98	59-131	3	25	
107-02-8	Acrolein	436	419	410	96	94	71-123	2	25	
107-13-1	Acrylonitrile	410	416	411	101	100	65-130	1	25	
71-43-2	Benzene	204	192	195	94	96	72-113	2	25	
100-44-7	Benzyl Chloride	402	509	517	127	129	73-145	2	25	
75-27-4	Bromodichloromethane	210	212	212	101	101	74-119	0	25	
75-25-2	Bromoform	208	260	264	125	127	65-149	2	25	
74-83-9	Bromomethane	212	211	208	100	98	71-112	2	25	
106-99-0	1,3-Butadiene	210	198	198	94	94	63-135	0	25	
123-86-4	n-Butyl Acetate	406	446	450	110	111	75-134	0.9	25	
75-15-0	Carbon Disulfide	428	400	400	93	93	70-113	0	25	
56-23-5	Carbon Tetrachloride	210	210	211	100	100	67-123	0	25	
108-90-7	Chlorobenzene	206	213	216	103	105	70-118	2	25	
75-00-3	Chloroethane	204	210	204	103	100	66-117	3	25	
67-66-3	Chloroform	214	206	206	96	96	71-114	0	25	
74-87-3	Chloromethane	206	131	127	64	62	53-126	3	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	210	201	197	96	94	57-127	2	25	
98-82-8	Cumene	208	225	228	108	110	69-125	2	25	
110-82-7	Cyclohexane	416	395	400	95	96	70-119	1	25	
124-48-1	Dibromochloromethane	210	240	245	114	117	69-137	3	25	
96-12-8	1,2-Dibromo-3-chloropropane	370	483	493	131	133	72-145	2	25	
106-93-4	1,2-Dibromoethane	208	243	247	117	119	76-128	2	25	
95-50-1	1,2-Dichlorobenzene	206	244	248	118	120	64-139	2	25	
541-73-1	1,3-Dichlorobenzene	206	249	256	121	124	67-136	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2103737
 ALS Sample ID: P210722-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 7/23/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD Limit		
106-46-7	1,4-Dichlorobenzene	204	238	241	117	118	63-134	0.9	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	206	202	98	96	71-112	2	25	
75-34-3	1,1-Dichloroethane	212	200	200	94	94	70-114	0	25	
107-06-2	1,2-Dichloroethane	208	205	206	99	99	71-119	0	25	
75-35-4	1,1-Dichloroethene	212	206	205	97	97	74-114	0	25	
156-59-2	cis-1,2-Dichloroethene	208	199	198	96	95	73-117	1	25	
156-60-5	trans-1,2-Dichloroethene	212	211	210	100	99	76-119	1	25	
78-87-5	1,2-Dichloropropane	206	192	192	93	93	70-118	0	25	
10061-01-5	cis-1,3-Dichloropropene	210	214	214	102	102	81-126	0	25	
10061-02-6	trans-1,3-Dichloropropene	202	218	219	108	108	80-127	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	216	199	202	92	94	62-121	2	25	
123-91-1	1,4-Dioxane	208	211	214	101	103	77-124	2	25	
64-17-5	Ethanol	998	856	838	86	84	57-117	2	25	
141-78-6	Ethyl Acetate	422	544	550	129	130	59-161	0.8	25	
100-41-4	Ethylbenzene	206	220	223	107	108	71-123	0.9	25	
622-96-8	4-Ethyltoluene	210	248	253	118	120	69-127	2	25	
142-82-5	n-Heptane	210	199	200	95	95	70-119	0	25	
87-68-3	Hexachlorobutadiene	210	271	274	129	130	55-142	0.8	25	
110-54-3	n-Hexane	212	187	188	88	89	55-130	1	25	
591-78-6	2-Hexanone	404	426	431	105	107	74-132	2	25	
5989-27-5	d-Limonene	208	230	233	111	112	63-137	0.9	25	
78-93-3	2-Butanone (MEK)	412	414	417	100	101	74-121	1	25	
80-62-6	Methyl Methacrylate	416	530	535	127	129	78-126	2	25	L
1634-04-4	Methyl tert-Butyl Ether	212	229	230	108	108	72-118	0	25	
75-09-2	Methylene Chloride	208	202	202	97	97	75-112	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2103737

ALS Sample ID: P210722-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sample Type: 1.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 7/23/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	416	407	409	98	98	73-129	0	25	
91-20-3	Naphthalene	198	226	232	114	117	62-156	3	25	
111-84-2	n-Nonane	208	201	204	97	98	64-127	1	25	
111-65-9	n-Octane	210	202	205	96	98	68-120	2	25	
80-56-8	alpha-Pinene	214	234	238	109	111	68-129	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	408	412	406	101	100	61-124	1	25	
115-07-1	Propene	210	191	180	91	86	56-128	6	25	
103-65-1	n-Propylbenzene	208	227	230	109	111	70-127	2	25	
100-42-5	Styrene	206	244	249	118	121	76-132	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	206	213	216	103	105	69-128	2	25	
127-18-4	Tetrachloroethene	206	232	236	113	115	63-130	2	25	
109-99-9	Tetrahydrofuran (THF)	400	365	368	91	92	73-114	1	25	
108-88-3	Toluene	206	208	212	101	103	70-118	2	25	
120-82-1	1,2,4-Trichlorobenzene	388	457	469	118	121	62-154	3	25	
71-55-6	1,1,1-Trichloroethane	206	210	210	102	102	73-119	0	25	
79-00-5	1,1,2-Trichloroethane	206	212	214	103	104	78-117	1	25	
79-01-6	Trichloroethene	206	202	204	98	99	74-115	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	204	201	199	99	98	71-114	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	214	213	214	100	100	73-114	0	25	
95-63-6	1,2,4-Trimethylbenzene	204	228	231	112	113	63-142	0.9	25	
108-67-8	1,3,5-Trimethylbenzene	206	212	214	103	104	66-129	1	25	
108-05-4	Vinyl Acetate	1,100	787	797	72	72	56-137	0	25	
75-01-4	Vinyl Chloride	208	187	187	90	90	63-123	0	25	
179601-23-1	m,p-Xylenes	412	431	436	105	106	67-127	0.9	25	
95-47-6	o-Xylene	206	221	224	107	109	69-124	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



2655 Park Center Dr., Suite A
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LABORATORY REPORT

September 30, 2021

Project #55929.005 WRR
July 2021 SVE exhaust gas samples
Reviewed by CCW
10/1/2021

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

RE: WRR - Eau Claire, WI - 55929.005 / 55929.005

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on September 21, 2021. For your reference, these analyses have been assigned our service request number P2104967.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 4:08 pm, Sep 30, 2021

Hayden Akers
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated
Project: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request No: P2104967

CASE NARRATIVE

The samples were received intact under chain of custody on September 21, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt. The samples were received past the recommended holding time for the TO-15 analysis, the data has been flagged accordingly.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The lower acceptance criterion was exceeded for chloromethane, ethanol, and acetonitrile in the Continuing Calibration Verification (CCV) and for acetonitrile and acrolein in Laboratory Control Sample (LCS) analyzed on September 24, 2021. The error associated with the reduced recovery equates to a potential low bias. However, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Since the sensitivity was verified and the samples were non-detect, the data quality has not been significantly affected. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated
 Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request: P2104967

Date Received: 9/21/2021
 Time Received: 09:45

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-15 - VOC Cans
MAIN SVE EXH - JULY	P2104967-001	Air	7/29/2021	12:30	1SS01362	-0.70	6.97	X
SVE 5 EXH - JULY	P2104967-002	Air	7/29/2021	12:05	1SS01307	-0.72	6.91	X
SVE 6 EXH - JULY	P2104967-003	Air	7/29/2021	12:15	1SS01316	-0.66	6.77	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

Page 1 of 1
P2104907

Requested Turnaround Time In Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No.

Company Name & Address (Reporting Information) WRR ENVIRONMENTAL 5200 RYDER RD EAU CLAIRE, WI 54701		Project Name		ALS Contact:	
Project Manager ANTHONY MILLER		Project Number		Analysis Method	
Phone	Fax	P.O. # / Billing Information GAUNETT FLEMING 8040 EXCELSIOR DR. MADISON, WI 53717		Comments e.g. Actual Preservative or specific instructions	
Email Address for Result Reporting AWMILLER@GFNET.COM		Sampler (Print & Sign) MARY GASSER			

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume		
MAN SVE EXH - JULY		7/29/21	12:30p	15501362	-	-30	0	1L	TO-1522S	
SVE 5 EXH - JULY		7/29/21	12:05p	15501307	-	-30	0	1L	TO-1522S	
SVE 6 EXH - JULY		9/29/21	12:15p	15501316	-	-30	0	1L	TO-1522S	

5 of 31

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____ EDD required Yes / No _____ Chain of Custody Seal: (Circle) _____ Project Requirements (MRLs, QAPP) _____
 Tier II (Results + QC Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____ Type: _____ Units: _____ INTACT BROKEN ABSENT _____

Relinquished by: (Signature)	Date: 7/29/21	Time: 1:00 PM	Received by: (Signature)	Date: 9/1/21	Time: 945	Cooler / Blank Temperature _____ °C
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	

**ALS Environmental
Sample Acceptance Check Form**

Client: Gannett Fleming, Incorporated

Work order: P2104967

Project: WRR - Eau Claire, WI - 55929.005 / 55929.005

Sample(s) received on: 9/21/21

Date opened: 9/21/21

by: DENISE.POSADA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2104967-001.01	1.0 L Source Silonite Canister					
P2104967-002.01	1.0 L Source Silonite Canister					
P2104967-003.01	1.0 L Source Silonite Canister					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01362

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.70 Final Pressure (psig): 6.97

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	8,100	ND	3,400	
75-05-8	Acetonitrile	ND	1,600	ND	920	V
107-02-8	Acrolein	ND	1,600	ND	680	
107-13-1	Acrylonitrile	ND	1,600	ND	710	
71-43-2	Benzene	ND	780	ND	240	
100-44-7	Benzyl Chloride	ND	1,700	ND	330	
75-27-4	Bromodichloromethane	ND	820	ND	120	
75-25-2	Bromoform	ND	810	ND	78	
74-83-9	Bromomethane	ND	790	ND	200	
106-99-0	1,3-Butadiene	ND	810	ND	360	
123-86-4	n-Butyl Acetate	ND	1,700	ND	360	
75-15-0	Carbon Disulfide	ND	1,700	ND	550	
56-23-5	Carbon Tetrachloride	ND	780	ND	120	
108-90-7	Chlorobenzene	ND	810	ND	180	
75-00-3	Chloroethane	ND	790	ND	300	
67-66-3	Chloroform	ND	840	ND	170	
74-87-3	Chloromethane	ND	790	ND	380	V
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	820	ND	260	
98-82-8	Cumene	ND	810	ND	160	
110-82-7	Cyclohexane	ND	1,700	ND	500	
124-48-1	Dibromochloromethane	ND	820	ND	96	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,600	ND	160	
106-93-4	1,2-Dibromoethane	ND	810	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	820	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	810	ND	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01362

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.70 Final Pressure (psig): 6.97

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	810	ND	130	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	820	ND	170	
75-34-3	1,1-Dichloroethane	4,500	820	1,100	200	
107-06-2	1,2-Dichloroethane	ND	820	ND	200	
75-35-4	1,1-Dichloroethene	1,900	840	480	210	
156-59-2	cis-1,2-Dichloroethene	17,000	810	4,300	200	
156-60-5	trans-1,2-Dichloroethene	ND	820	ND	210	
78-87-5	1,2-Dichloropropane	ND	780	ND	170	
10061-01-5	cis-1,3-Dichloropropene	ND	780	ND	170	
10061-02-6	trans-1,3-Dichloropropene	ND	790	ND	170	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	840	ND	120	
123-91-1	1,4-Dioxane	ND	810	ND	220	
64-17-5	Ethanol	ND	7,800	ND	4,100	V
141-78-6	Ethyl Acetate	ND	3,300	ND	900	
100-41-4	Ethylbenzene	11,000	810	2,600	190	
622-96-8	4-Ethyltoluene	ND	820	ND	170	
142-82-5	n-Heptane	3,000	820	730	200	
87-68-3	Hexachlorobutadiene	ND	810	ND	76	
110-54-3	n-Hexane	ND	820	ND	230	
591-78-6	2-Hexanone	ND	1,700	ND	420	
5989-27-5	d-Limonene	ND	780	ND	140	
78-93-3	2-Butanone (MEK)	ND	1,600	ND	530	
80-62-6	Methyl Methacrylate	ND	1,700	ND	420	
1634-04-4	Methyl tert-Butyl Ether	ND	820	ND	230	
75-09-2	Methylene Chloride	2,000	810	580	230	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01362

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.70 Final Pressure (psig): 6.97

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,700	ND	420	
91-20-3	Naphthalene	ND	810	ND	150	
111-84-2	n-Nonane	1,600	810	310	150	
111-65-9	n-Octane	2,900	820	630	180	
80-56-8	alpha-Pinene	ND	840	ND	150	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,600	ND	630	
115-07-1	Propene	ND	810	ND	470	
103-65-1	n-Propylbenzene	ND	820	ND	170	
100-42-5	Styrene	ND	780	ND	180	
79-34-5	1,1,2,2-Tetrachloroethane	ND	810	ND	120	
127-18-4	Tetrachloroethene	160,000	810	24,000	120	
109-99-9	Tetrahydrofuran (THF)	ND	1,600	ND	530	
108-88-3	Toluene	170,000	1,600	46,000	430	D
120-82-1	1,2,4-Trichlorobenzene	ND	1,700	ND	230	
71-55-6	1,1,1-Trichloroethane	150,000	810	27,000	150	
79-00-5	1,1,2-Trichloroethane	ND	810	ND	150	
79-01-6	Trichloroethene	130,000	810	25,000	150	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	810	ND	140	
76-13-1	Trichlorotrifluoroethane (CFC 113)	14,000	840	1,900	110	
95-63-6	1,2,4-Trimethylbenzene	890	810	180	160	
108-67-8	1,3,5-Trimethylbenzene	ND	810	ND	160	
108-05-4	Vinyl Acetate	ND	7,800	ND	2,200	
75-01-4	Vinyl Chloride	ND	810	ND	320	
179601-23-1	m,p-Xylenes	58,000	1,700	13,000	390	
95-47-6	o-Xylene	20,000	810	4,700	190	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE 5 EXH - JULY

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P2104967-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Simon Cao

Sample Type: 1.0 L Silonite Summa Canister

Test Notes: **H3**

Container ID: 1SS01307

Date Collected: 7/29/21

Date Received: 9/21/21

Date Analyzed: 9/24/21

Volume(s) Analyzed: 0.0015 Liter(s)

0.00050 Liter(s)

Initial Pressure (psig): -0.72 Final Pressure (psig): 6.91

Container Dilution Factor: 1.55

CAS #	Compound	Result		MRL		Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5,400	ND	2,300	
75-05-8	Acetonitrile	ND	1,000	ND	620	V
107-02-8	Acrolein	ND	1,000	ND	450	
107-13-1	Acrylonitrile	ND	1,000	ND	480	
71-43-2	Benzene	ND	520	ND	160	
100-44-7	Benzyl Chloride	ND	1,100	ND	220	
75-27-4	Bromodichloromethane	ND	550	ND	82	
75-25-2	Bromoform	ND	540	ND	52	
74-83-9	Bromomethane	ND	530	ND	140	
106-99-0	1,3-Butadiene	ND	540	ND	240	
123-86-4	n-Butyl Acetate	ND	1,100	ND	240	
75-15-0	Carbon Disulfide	ND	1,100	ND	370	
56-23-5	Carbon Tetrachloride	ND	520	ND	82	
108-90-7	Chlorobenzene	ND	540	ND	120	
75-00-3	Chloroethane	19,000	530	7,300	200	
67-66-3	Chloroform	ND	560	ND	110	
74-87-3	Chloromethane	ND	530	ND	260	V
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	550	ND	180	
98-82-8	Cumene	ND	540	ND	110	
110-82-7	Cyclohexane	ND	1,100	ND	330	
124-48-1	Dibromochloromethane	ND	550	ND	64	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,000	ND	110	
106-93-4	1,2-Dibromoethane	ND	540	ND	70	
95-50-1	1,2-Dichlorobenzene	ND	550	ND	91	
541-73-1	1,3-Dichlorobenzene	ND	540	ND	89	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 5 EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01307

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0015 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.72 Final Pressure (psig): 6.91

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	540	ND	89	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	550	ND	110	
75-34-3	1,1-Dichloroethane	27,000	550	6,700	140	
107-06-2	1,2-Dichloroethane	ND	550	ND	140	
75-35-4	1,1-Dichloroethene	1,500	560	390	140	
156-59-2	cis-1,2-Dichloroethene	67,000	540	17,000	140	
156-60-5	trans-1,2-Dichloroethene	ND	550	ND	140	
78-87-5	1,2-Dichloropropane	ND	520	ND	110	
10061-01-5	cis-1,3-Dichloropropene	ND	520	ND	110	
10061-02-6	trans-1,3-Dichloropropene	ND	530	ND	120	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	560	ND	80	
123-91-1	1,4-Dioxane	ND	540	ND	150	
64-17-5	Ethanol	ND	5,200	ND	2,700	V
141-78-6	Ethyl Acetate	ND	2,200	ND	600	
100-41-4	Ethylbenzene	ND	540	ND	120	
622-96-8	4-Ethyltoluene	ND	550	ND	110	
142-82-5	n-Heptane	ND	550	ND	130	
87-68-3	Hexachlorobutadiene	ND	540	ND	50	
110-54-3	n-Hexane	ND	550	ND	160	
591-78-6	2-Hexanone	ND	1,100	ND	280	
5989-27-5	d-Limonene	ND	520	ND	93	
78-93-3	2-Butanone (MEK)	ND	1,000	ND	350	
80-62-6	Methyl Methacrylate	ND	1,100	ND	280	
1634-04-4	Methyl tert-Butyl Ether	ND	550	ND	150	
75-09-2	Methylene Chloride	ND	540	ND	150	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 5 EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01307

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0015 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.72 Final Pressure (psig): 6.91

Container Dilution Factor: 1.55

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,100	ND	280	
91-20-3	Naphthalene	ND	540	ND	100	
111-84-2	n-Nonane	ND	540	ND	100	
111-65-9	n-Octane	ND	550	ND	120	
80-56-8	alpha-Pinene	ND	560	ND	100	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,000	ND	420	
115-07-1	Propene	ND	540	ND	310	
103-65-1	n-Propylbenzene	ND	550	ND	110	
100-42-5	Styrene	ND	520	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	540	ND	78	
127-18-4	Tetrachloroethene	140,000	1,600	21,000	240	D
109-99-9	Tetrahydrofuran (THF)	ND	1,000	ND	350	
108-88-3	Toluene	690	540	180	140	
120-82-1	1,2,4-Trichlorobenzene	ND	1,100	ND	150	
71-55-6	1,1,1-Trichloroethane	210,000	1,600	38,000	300	D
79-00-5	1,1,2-Trichloroethane	590	540	110	99	
79-01-6	Trichloroethene	96,000	540	18,000	100	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	540	ND	96	
76-13-1	Trichlorotrifluoroethane (CFC 113)	33,000	560	4,300	73	
95-63-6	1,2,4-Trimethylbenzene	ND	540	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	540	ND	110	
108-05-4	Vinyl Acetate	ND	5,200	ND	1,500	
75-01-4	Vinyl Chloride	ND	540	ND	210	
179601-23-1	m,p-Xylenes	ND	1,100	ND	260	
95-47-6	o-Xylene	ND	540	ND	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 6 EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01316

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0020 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 6.77

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	4,000	ND	1,700	
75-05-8	Acetonitrile	ND	770	ND	460	V
107-02-8	Acrolein	ND	770	ND	330	
107-13-1	Acrylonitrile	ND	770	ND	350	
71-43-2	Benzene	ND	380	ND	120	
100-44-7	Benzyl Chloride	ND	840	ND	160	
75-27-4	Bromodichloromethane	ND	410	ND	61	
75-25-2	Bromoform	ND	400	ND	38	
74-83-9	Bromomethane	ND	390	ND	100	
106-99-0	1,3-Butadiene	ND	400	ND	180	
123-86-4	n-Butyl Acetate	ND	840	ND	180	
75-15-0	Carbon Disulfide	ND	840	ND	270	
56-23-5	Carbon Tetrachloride	ND	380	ND	61	
108-90-7	Chlorobenzene	ND	400	ND	86	
75-00-3	Chloroethane	ND	390	ND	150	
67-66-3	Chloroform	ND	410	ND	85	
74-87-3	Chloromethane	ND	390	ND	190	V
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	410	ND	130	
98-82-8	Cumene	ND	400	ND	81	
110-82-7	Cyclohexane	ND	840	ND	240	
124-48-1	Dibromochloromethane	ND	410	ND	48	
96-12-8	1,2-Dibromo-3-chloropropane	ND	770	ND	79	
106-93-4	1,2-Dibromoethane	ND	400	ND	52	
95-50-1	1,2-Dichlorobenzene	ND	410	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	400	ND	66	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 6 EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01316

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0020 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 6.77

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	400	ND	66	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	410	ND	82	
75-34-3	1,1-Dichloroethane	670	410	170	100	
107-06-2	1,2-Dichloroethane	ND	410	ND	100	
75-35-4	1,1-Dichloroethene	460	410	120	100	
156-59-2	cis-1,2-Dichloroethene	2,300	400	580	100	
156-60-5	trans-1,2-Dichloroethene	ND	410	ND	100	
78-87-5	1,2-Dichloropropane	ND	380	ND	83	
10061-01-5	cis-1,3-Dichloropropene	ND	380	ND	84	
10061-02-6	trans-1,3-Dichloropropene	ND	390	ND	86	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	410	ND	59	
123-91-1	1,4-Dioxane	ND	400	ND	110	
64-17-5	Ethanol	ND	3,800	ND	2,000	V
141-78-6	Ethyl Acetate	ND	1,600	ND	450	
100-41-4	Ethylbenzene	ND	400	ND	92	
622-96-8	4-Ethyltoluene	ND	410	ND	83	
142-82-5	n-Heptane	ND	410	ND	99	
87-68-3	Hexachlorobutadiene	ND	400	ND	37	
110-54-3	n-Hexane	ND	410	ND	120	
591-78-6	2-Hexanone	ND	840	ND	210	
5989-27-5	d-Limonene	ND	380	ND	69	
78-93-3	2-Butanone (MEK)	ND	770	ND	260	
80-62-6	Methyl Methacrylate	ND	840	ND	210	
1634-04-4	Methyl tert-Butyl Ether	ND	410	ND	110	
75-09-2	Methylene Chloride	ND	400	ND	110	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE 6 EXH - JULY
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P2104967-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes: **H3**
 Container ID: 1SS01316

Date Collected: 7/29/21
 Date Received: 9/21/21
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.0020 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 6.77

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	840	ND	210	
91-20-3	Naphthalene	ND	400	ND	76	
111-84-2	n-Nonane	ND	400	ND	76	
111-65-9	n-Octane	ND	410	ND	87	
80-56-8	alpha-Pinene	ND	410	ND	74	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	770	ND	310	
115-07-1	Propene	ND	400	ND	230	
103-65-1	n-Propylbenzene	ND	410	ND	83	
100-42-5	Styrene	ND	380	ND	90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	ND	58	
127-18-4	Tetrachloroethene	86,000	800	13,000	120	D
109-99-9	Tetrahydrofuran (THF)	ND	770	ND	260	
108-88-3	Toluene	930	400	250	110	
120-82-1	1,2,4-Trichlorobenzene	ND	840	ND	110	
71-55-6	1,1,1-Trichloroethane	15,000	400	2,800	73	
79-00-5	1,1,2-Trichloroethane	ND	400	ND	73	
79-01-6	Trichloroethene	17,000	400	3,100	74	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	400	ND	71	
76-13-1	Trichlorotrifluoroethane (CFC 113)	690	410	90	54	
95-63-6	1,2,4-Trimethylbenzene	ND	400	ND	81	
108-67-8	1,3,5-Trimethylbenzene	ND	400	ND	81	
108-05-4	Vinyl Acetate	ND	3,800	ND	1,100	
75-01-4	Vinyl Chloride	ND	400	ND	160	
179601-23-1	m,p-Xylenes	ND	840	ND	190	
95-47-6	o-Xylene	ND	400	ND	92	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210924-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	V
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	V
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210924-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	V
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210924-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 1.0 L Silonite Summa Canister(s) / 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 7/29 - 9/7/21
Date(s) Received: 9/15 - 9/21/21
Date(s) Analyzed: 9/24 - 9/27/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P210924-MB	107	115	112	70-130	
Method Blank	P210927-MB	96	107	103	70-130	
Lab Control Sample	P210924-LCS	107	112	110	70-130	
Lab Control Sample	P210927-LCS	93	103	102	70-130	
Duplicate Lab Control Sample	P210927-DLCS	94	102	101	70-130	
MAIN SVE EXH - JULY	P2104967-001	104	125	121	70-130	
SVE 5 EXH - JULY	P2104967-002	105	121	116	70-130	
SVE 6 EXH - JULY	P2104967-003	115	112	111	70-130	
Batch QC	P2104858-001DUP	116	110	110	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210924-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/24/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
67-64-1	Acetone	1,020	676	66	60-117	
75-05-8	Acetonitrile	202	111	55	59-131	L
107-02-8	Acrolein	416	255	61	71-123	L
107-13-1	Acrylonitrile	402	274	68	65-130	
71-43-2	Benzene	208	182	88	72-113	
100-44-7	Benzyl Chloride	416	414	100	73-145	
75-27-4	Bromodichloromethane	208	189	91	74-119	
75-25-2	Bromoform	210	185	88	65-149	
74-83-9	Bromomethane	206	163	79	71-112	
106-99-0	1,3-Butadiene	206	129	63	63-135	
123-86-4	n-Butyl Acetate	406	327	81	75-134	
75-15-0	Carbon Disulfide	414	408	99	70-113	
56-23-5	Carbon Tetrachloride	202	171	85	67-123	
108-90-7	Chlorobenzene	206	182	88	70-118	
75-00-3	Chloroethane	206	155	75	66-117	
67-66-3	Chloroform	210	187	89	71-114	
74-87-3	Chloromethane	206	122	59	53-126	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	135	66	57-127	
98-82-8	Cumene	206	193	94	69-125	
110-82-7	Cyclohexane	412	360	87	70-119	
124-48-1	Dibromochloromethane	210	189	90	69-137	
96-12-8	1,2-Dibromo-3-chloropropane	404	374	93	72-145	
106-93-4	1,2-Dibromoethane	208	199	96	76-128	
95-50-1	1,2-Dichlorobenzene	210	183	87	64-139	
541-73-1	1,3-Dichlorobenzene	208	184	88	67-136	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased low.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P210924-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/24/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
106-46-7	1,4-Dichlorobenzene	210	177	84	63-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	179	86	71-112	
75-34-3	1,1-Dichloroethane	214	181	85	70-114	
107-06-2	1,2-Dichloroethane	210	179	85	71-119	
75-35-4	1,1-Dichloroethene	210	195	93	74-114	
156-59-2	cis-1,2-Dichloroethene	206	167	81	73-117	
156-60-5	trans-1,2-Dichloroethene	208	172	83	76-119	
78-87-5	1,2-Dichloropropane	206	164	80	70-118	
10061-01-5	cis-1,3-Dichloropropene	208	204	98	81-126	
10061-02-6	trans-1,3-Dichloropropene	200	195	98	80-127	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	165	79	62-121	
123-91-1	1,4-Dioxane	206	202	98	77-124	
64-17-5	Ethanol	832	496	60	57-117	
141-78-6	Ethyl Acetate	580	446	77	59-161	
100-41-4	Ethylbenzene	206	178	86	71-123	
622-96-8	4-Ethyltoluene	208	198	95	69-127	
142-82-5	n-Heptane	206	182	88	70-119	
87-68-3	Hexachlorobutadiene	212	194	92	55-142	
110-54-3	n-Hexane	208	144	69	55-130	
591-78-6	2-Hexanone	406	327	81	74-132	
5989-27-5	d-Limonene	206	237	115	63-137	
78-93-3	2-Butanone (MEK)	408	411	101	74-121	
80-62-6	Methyl Methacrylate	410	370	90	78-126	
1634-04-4	Methyl tert-Butyl Ether	206	204	99	72-118	
75-09-2	Methylene Chloride	208	189	91	75-112	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Lab Control Sample

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P210924-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 9/24/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
108-10-1	4-Methyl-2-pentanone	412	313	76	73-129	
91-20-3	Naphthalene	210	171	81	62-156	
111-84-2	n-Nonane	208	152	73	64-127	
111-65-9	n-Octane	208	158	76	68-120	
80-56-8	alpha-Pinene	210	213	101	68-129	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	294	74	61-124	
115-07-1	Propene	206	132	64	56-128	
103-65-1	n-Propylbenzene	208	198	95	70-127	
100-42-5	Styrene	202	183	91	76-132	
79-34-5	1,1,2,2-Tetrachloroethane	208	190	91	69-128	
127-18-4	Tetrachloroethene	212	189	89	63-130	
109-99-9	Tetrahydrofuran (THF)	404	415	103	73-114	
108-88-3	Toluene	206	204	99	70-118	
120-82-1	1,2,4-Trichlorobenzene	420	372	89	62-154	
71-55-6	1,1,1-Trichloroethane	208	177	85	73-119	
79-00-5	1,1,2-Trichloroethane	208	177	85	78-117	
79-01-6	Trichloroethene	204	163	80	74-115	
75-69-4	Trichlorofluoromethane (CFC 11)	202	175	87	71-114	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	184	85	73-114	
95-63-6	1,2,4-Trimethylbenzene	206	201	98	63-142	
108-67-8	1,3,5-Trimethylbenzene	208	200	96	66-129	
108-05-4	Vinyl Acetate	942	1010	107	56-137	
75-01-4	Vinyl Chloride	208	149	72	63-123	
179601-23-1	m,p-Xylenes	416	359	86	67-127	
95-47-6	o-Xylene	208	193	93	69-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	907	934	89	92	60-117	3	25	
75-05-8	Acetonitrile	202	174	182	86	90	59-131	5	25	
107-02-8	Acrolein	416	410	425	99	102	71-123	3	25	
107-13-1	Acrylonitrile	402	394	403	98	100	65-130	2	25	
71-43-2	Benzene	208	189	190	91	91	72-113	0	25	
100-44-7	Benzyl Chloride	416	445	455	107	109	73-145	2	25	
75-27-4	Bromodichloromethane	208	197	199	95	96	74-119	1	25	
75-25-2	Bromoform	210	206	208	98	99	65-149	1	25	
74-83-9	Bromomethane	206	196	204	95	99	71-112	4	25	
106-99-0	1,3-Butadiene	206	197	205	96	100	63-135	4	25	
123-86-4	n-Butyl Acetate	406	414	423	102	104	75-134	2	25	
75-15-0	Carbon Disulfide	414	379	383	92	93	70-113	1	25	
56-23-5	Carbon Tetrachloride	202	178	179	88	89	67-123	1	25	
108-90-7	Chlorobenzene	206	200	201	97	98	70-118	1	25	
75-00-3	Chloroethane	206	198	205	96	100	66-117	4	25	
67-66-3	Chloroform	210	192	193	91	92	71-114	1	25	
74-87-3	Chloromethane	206	197	206	96	100	53-126	4	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	173	176	85	86	57-127	1	25	
98-82-8	Cumene	206	199	201	97	98	69-125	1	25	
110-82-7	Cyclohexane	412	369	374	90	91	70-119	1	25	
124-48-1	Dibromochloromethane	210	201	202	96	96	69-137	0	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	404	410	100	101	72-145	1	25	
106-93-4	1,2-Dibromoethane	208	205	205	99	99	76-128	0	25	
95-50-1	1,2-Dichlorobenzene	210	200	203	95	97	64-139	2	25	
541-73-1	1,3-Dichlorobenzene	208	204	207	98	100	67-136	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	202	204	96	97	63-134	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	178	182	86	88	71-112	2	25	
75-34-3	1,1-Dichloroethane	214	198	200	93	93	70-114	0	25	
107-06-2	1,2-Dichloroethane	210	184	185	88	88	71-119	0	25	
75-35-4	1,1-Dichloroethene	210	199	202	95	96	74-114	1	25	
156-59-2	cis-1,2-Dichloroethene	206	198	199	96	97	73-117	1	25	
156-60-5	trans-1,2-Dichloroethene	208	200	205	96	99	76-119	3	25	
78-87-5	1,2-Dichloropropane	206	197	201	96	98	70-118	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	204	207	98	100	81-126	2	25	
10061-02-6	trans-1,3-Dichloropropene	200	198	201	99	101	80-127	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	192	204	92	98	62-121	6	25	
123-91-1	1,4-Dioxane	206	200	203	97	99	77-124	2	25	
64-17-5	Ethanol	832	801	833	96	100	57-117	4	25	
141-78-6	Ethyl Acetate	580	548	565	94	97	59-161	3	25	
100-41-4	Ethylbenzene	206	201	203	98	99	71-123	1	25	
622-96-8	4-Ethyltoluene	208	203	206	98	99	69-127	1	25	
142-82-5	n-Heptane	206	198	202	96	98	70-119	2	25	
87-68-3	Hexachlorobutadiene	212	184	186	87	88	55-142	1	25	
110-54-3	n-Hexane	208	198	201	95	97	55-130	2	25	
591-78-6	2-Hexanone	406	401	407	99	100	74-132	1	25	
5989-27-5	d-Limonene	206	228	231	111	112	63-137	0.9	25	
78-93-3	2-Butanone (MEK)	408	394	400	97	98	74-121	1	25	
80-62-6	Methyl Methacrylate	410	417	420	102	102	78-126	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	196	197	95	96	72-118	1	25	
75-09-2	Methylene Chloride	208	192	193	92	93	75-112	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967
 ALS Sample ID: P210927-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/27/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	408	418	99	101	73-129	2	25	
91-20-3	Naphthalene	210	204	211	97	100	62-156	3	25	
111-84-2	n-Nonane	208	207	212	100	102	64-127	2	25	
111-65-9	n-Octane	208	210	214	101	103	68-120	2	25	
80-56-8	alpha-Pinene	210	217	220	103	105	68-129	2	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	392	403	98	101	61-124	3	25	
115-07-1	Propene	206	171	179	83	87	56-128	5	25	
103-65-1	n-Propylbenzene	208	202	205	97	99	70-127	2	25	
100-42-5	Styrene	202	206	210	102	104	76-132	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	209	214	100	103	69-128	3	25	
127-18-4	Tetrachloroethene	212	201	201	95	95	63-130	0	25	
109-99-9	Tetrahydrofuran (THF)	404	392	397	97	98	73-114	1	25	
108-88-3	Toluene	206	198	200	96	97	70-118	1	25	
120-82-1	1,2,4-Trichlorobenzene	420	391	398	93	95	62-154	2	25	
71-55-6	1,1,1-Trichloroethane	208	184	184	88	88	73-119	0	25	
79-00-5	1,1,2-Trichloroethane	208	197	201	95	97	78-117	2	25	
79-01-6	Trichloroethene	204	200	202	98	99	74-115	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	177	179	88	89	71-114	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	197	200	91	93	73-114	2	25	
95-63-6	1,2,4-Trimethylbenzene	206	203	205	99	100	63-142	1	25	
108-67-8	1,3,5-Trimethylbenzene	208	202	204	97	98	66-129	1	25	
108-05-4	Vinyl Acetate	942	997	1010	106	107	56-137	0.9	25	
75-01-4	Vinyl Chloride	208	197	213	95	102	63-123	7	25	
179601-23-1	m,p-Xylenes	416	402	407	97	98	67-127	1	25	
95-47-6	o-Xylene	208	202	205	97	99	69-124	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Batch QC

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P2104858-001DUP

Test Code: EPA TO-15

Date Collected: 9/7/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/15/21

Analyst: Simon Cao

Date Analyzed: 9/24/21 & 9/28/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC01742

Initial Pressure (psig): 0.97

Final Pressure (psig): 3.74

Container Dilution Factor: 1.18

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Acetone	ND	ND	ND	ND	-	-	25	
Acetonitrile	ND	ND	ND	ND	-	-	25	V
Acrolein	ND	ND	ND	ND	-	-	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
Benzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	38.0	12.2	40.7	13.1	39.35	7	25	
Carbon Tetrachloride	27.8	4.42	28.5	4.53	28.15	2	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Chloroform	94.7	19.4	95.5	19.6	95.1	0.8	25	
Chloromethane	ND	ND	ND	ND	-	-	25	V
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Batch QC

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P2104858-001DUP

Test Code: EPA TO-15

Date Collected: 9/7/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/15/21

Analyst: Simon Cao

Date Analyzed: 9/24/21 & 9/28/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC01742

Initial Pressure (psig): 0.97

Final Pressure (psig): 3.74

Container Dilution Factor: 1.18

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	52.8	13.3	58.7	14.8	55.75	11	25	
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
d-Limonene	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Batch QC

Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104967

ALS Sample ID: P2104858-001DUP

Test Code: EPA TO-15

Date Collected: 9/7/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 9/15/21

Analyst: Simon Cao

Date Analyzed: 9/24/21 & 9/28/21

Sample Type: 6.0 L Summa Canister

Volume(s) Analyzed: 0.040 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC01742

Initial Pressure (psig): 0.97

Final Pressure (psig): 3.74

Container Dilution Factor: 1.18

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
n-Nonane	ND	ND	ND	ND	-	-	25	
n-Octane	ND	ND	ND	ND	-	-	25	
alpha-Pinene	ND	ND	ND	ND	-	-	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
Propene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	3,920	578	3,890	573	3905	0.8	25	D
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
Toluene	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	1,560	291	1,720	320	1640	10	25	
Trichlorofluoromethane	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

D = The reported result is from a dilution.



2655 Park Center Dr., Suite A
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LABORATORY REPORT

September 24, 2021

Project #55929.005 WRR
Aug 2021 SVE analytical
Reviewed by CCW
10/1/2021

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

RE: WRR - Eau Claire, WI - 55929.005 / 55929.005

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on September 16, 2021. For your reference, these analyses have been assigned our service request number P2104918.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 5:46 pm, Sep 24, 2021

Hayden Akers
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated
Project: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request No: P2104918

CASE NARRATIVE

The samples were received intact under chain of custody on September 17, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The spike recovery of acrolein in the Laboratory Control Sample (LCS) and Duplicate Laboratory Control Sample (DLCS) analyzed on September 22, 2021 was outside the laboratory generated control criteria. The recovery error equates to a potential low bias. However, the spike recovery of the analyte in question was within the method criteria; therefore, the data quality has not been significantly affected. No further corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated
 Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request: P2104918

Date Received: 9/16/2021
 Time Received: 10:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SVE-7 AUGUST	P2104918-001	Air	8/27/2021	14:00	1SC00456	-0.23	6.28	X
SVE-5 AUGUST	P2104918-002	Air	8/27/2021	14:15	1SS00923	-0.65	6.97	X
MAIN SVE RXH AUGUST	P2104918-003	Air	8/27/2021	14:20	1SS00979	-0.49	7.19	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-7 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00456

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.23 Final Pressure (psig): 6.28

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	3,800	ND	1,600	
75-05-8	Acetonitrile	ND	730	ND	430	
107-02-8	Acrolein	ND	730	ND	320	
107-13-1	Acrylonitrile	ND	730	ND	330	
71-43-2	Benzene	ND	360	ND	110	
100-44-7	Benzyl Chloride	ND	800	ND	150	
75-27-4	Bromodichloromethane	ND	380	ND	57	
75-25-2	Bromoform	ND	380	ND	36	
74-83-9	Bromomethane	ND	370	ND	95	
106-99-0	1,3-Butadiene	ND	380	ND	170	
123-86-4	n-Butyl Acetate	ND	800	ND	170	
75-15-0	Carbon Disulfide	ND	800	ND	260	
56-23-5	Carbon Tetrachloride	ND	360	ND	58	
108-90-7	Chlorobenzene	ND	380	ND	82	
75-00-3	Chloroethane	ND	370	ND	140	
67-66-3	Chloroform	ND	390	ND	80	
74-87-3	Chloromethane	ND	370	ND	180	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	380	ND	120	
98-82-8	Cumene	ND	380	ND	77	
110-82-7	Cyclohexane	ND	800	ND	230	
124-48-1	Dibromochloromethane	ND	380	ND	45	
96-12-8	1,2-Dibromo-3-chloropropane	ND	730	ND	75	
106-93-4	1,2-Dibromoethane	ND	380	ND	49	
95-50-1	1,2-Dichlorobenzene	ND	380	ND	64	
541-73-1	1,3-Dichlorobenzene	ND	380	ND	63	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-7 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00456

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.23 Final Pressure (psig): 6.28

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	380	ND	63	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	380	ND	78	
75-34-3	1,1-Dichloroethane	ND	380	ND	95	
107-06-2	1,2-Dichloroethane	ND	380	ND	95	
75-35-4	1,1-Dichloroethene	520	390	130	99	
156-59-2	cis-1,2-Dichloroethene	840	380	210	95	
156-60-5	trans-1,2-Dichloroethene	ND	380	ND	97	
78-87-5	1,2-Dichloropropane	ND	360	ND	78	
10061-01-5	cis-1,3-Dichloropropene	ND	360	ND	80	
10061-02-6	trans-1,3-Dichloropropene	ND	370	ND	81	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	390	ND	56	
123-91-1	1,4-Dioxane	ND	380	ND	100	
64-17-5	Ethanol	ND	3,600	ND	1,900	
141-78-6	Ethyl Acetate	ND	1,500	ND	420	
100-41-4	Ethylbenzene	ND	380	ND	87	
622-96-8	4-Ethyltoluene	ND	380	ND	78	
142-82-5	n-Heptane	ND	380	ND	94	
87-68-3	Hexachlorobutadiene	ND	380	ND	35	
110-54-3	n-Hexane	ND	380	ND	110	
591-78-6	2-Hexanone	ND	800	ND	190	
5989-27-5	d-Limonene	ND	360	ND	65	
78-93-3	2-Butanone (MEK)	ND	730	ND	250	
80-62-6	Methyl Methacrylate	ND	800	ND	190	
1634-04-4	Methyl tert-Butyl Ether	ND	380	ND	110	
75-09-2	Methylene Chloride	ND	380	ND	110	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-7 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00456

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.23 Final Pressure (psig): 6.28

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	800	ND	190	
91-20-3	Naphthalene	ND	380	ND	72	
111-84-2	n-Nonane	ND	380	ND	72	
111-65-9	n-Octane	ND	380	ND	82	
80-56-8	alpha-Pinene	ND	390	ND	70	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	730	ND	300	
115-07-1	Propene	ND	380	ND	220	
103-65-1	n-Propylbenzene	ND	380	ND	78	
100-42-5	Styrene	ND	360	ND	85	
79-34-5	1,1,2,2-Tetrachloroethane	ND	380	ND	55	
127-18-4	Tetrachloroethene	75,000	380	11,000	56	
109-99-9	Tetrahydrofuran (THF)	ND	730	ND	250	
108-88-3	Toluene	ND	380	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	800	ND	110	
71-55-6	1,1,1-Trichloroethane	12,000	380	2,200	69	
79-00-5	1,1,2-Trichloroethane	ND	380	ND	69	
79-01-6	Trichloroethene	14,000	380	2,700	70	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	380	ND	67	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	390	ND	51	
95-63-6	1,2,4-Trimethylbenzene	ND	380	ND	77	
108-67-8	1,3,5-Trimethylbenzene	ND	380	ND	77	
108-05-4	Vinyl Acetate	ND	3,600	ND	1,000	
75-01-4	Vinyl Chloride	ND	380	ND	150	
179601-23-1	m,p-Xylenes	ND	800	ND	180	
95-47-6	o-Xylene	ND	380	ND	87	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00923

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 6.97

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	8,000	ND	3,400	
75-05-8	Acetonitrile	ND	1,500	ND	920	
107-02-8	Acrolein	ND	1,500	ND	670	
107-13-1	Acrylonitrile	ND	1,500	ND	710	
71-43-2	Benzene	ND	770	ND	240	
100-44-7	Benzyl Chloride	ND	1,700	ND	330	
75-27-4	Bromodichloromethane	ND	820	ND	120	
75-25-2	Bromoform	ND	800	ND	77	
74-83-9	Bromomethane	ND	790	ND	200	
106-99-0	1,3-Butadiene	ND	800	ND	360	
123-86-4	n-Butyl Acetate	ND	1,700	ND	360	
75-15-0	Carbon Disulfide	ND	1,700	ND	540	
56-23-5	Carbon Tetrachloride	ND	770	ND	120	
108-90-7	Chlorobenzene	ND	800	ND	170	
75-00-3	Chloroethane	21,000	790	7,800	300	
67-66-3	Chloroform	ND	830	ND	170	
74-87-3	Chloromethane	ND	790	ND	380	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	820	ND	260	
98-82-8	Cumene	ND	800	ND	160	
110-82-7	Cyclohexane	ND	1,700	ND	490	
124-48-1	Dibromochloromethane	ND	820	ND	96	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,500	ND	160	
106-93-4	1,2-Dibromoethane	ND	800	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	820	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	800	ND	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00923

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 6.97

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	800	ND	130	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	820	ND	170	
75-34-3	1,1-Dichloroethane	28,000	820	6,900	200	
107-06-2	1,2-Dichloroethane	ND	820	ND	200	
75-35-4	1,1-Dichloroethene	1,800	830	450	210	
156-59-2	cis-1,2-Dichloroethene	54,000	800	14,000	200	
156-60-5	trans-1,2-Dichloroethene	ND	820	ND	210	
78-87-5	1,2-Dichloropropane	ND	770	ND	170	
10061-01-5	cis-1,3-Dichloropropene	ND	770	ND	170	
10061-02-6	trans-1,3-Dichloropropene	ND	790	ND	170	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	830	ND	120	
123-91-1	1,4-Dioxane	ND	800	ND	220	
64-17-5	Ethanol	ND	7,700	ND	4,100	
141-78-6	Ethyl Acetate	ND	3,200	ND	900	
100-41-4	Ethylbenzene	ND	800	ND	180	
622-96-8	4-Ethyltoluene	ND	820	ND	170	
142-82-5	n-Heptane	ND	820	ND	200	
87-68-3	Hexachlorobutadiene	ND	800	ND	75	
110-54-3	n-Hexane	ND	820	ND	230	
591-78-6	2-Hexanone	ND	1,700	ND	410	
5989-27-5	d-Limonene	ND	770	ND	140	
78-93-3	2-Butanone (MEK)	ND	1,500	ND	520	
80-62-6	Methyl Methacrylate	ND	1,700	ND	410	
1634-04-4	Methyl tert-Butyl Ether	ND	820	ND	230	
75-09-2	Methylene Chloride	ND	800	ND	230	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00923

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): -0.65 Final Pressure (psig): 6.97

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,700	ND	410	
91-20-3	Naphthalene	ND	800	ND	150	
111-84-2	n-Nonane	ND	800	ND	150	
111-65-9	n-Octane	ND	820	ND	170	
80-56-8	alpha-Pinene	ND	830	ND	150	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,500	ND	630	
115-07-1	Propene	ND	800	ND	470	
103-65-1	n-Propylbenzene	ND	820	ND	170	
100-42-5	Styrene	ND	770	ND	180	
79-34-5	1,1,2,2-Tetrachloroethane	ND	800	ND	120	
127-18-4	Tetrachloroethene	130,000	800	20,000	120	
109-99-9	Tetrahydrofuran (THF)	ND	1,500	ND	520	
108-88-3	Toluene	ND	800	ND	210	
120-82-1	1,2,4-Trichlorobenzene	ND	1,700	ND	230	
71-55-6	1,1,1-Trichloroethane	190,000	1,600	35,000	290	D
79-00-5	1,1,2-Trichloroethane	ND	800	ND	150	
79-01-6	Trichloroethene	94,000	800	18,000	150	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	800	ND	140	
76-13-1	Trichlorotrifluoroethane (CFC 113)	31,000	830	4,000	110	
95-63-6	1,2,4-Trimethylbenzene	ND	800	ND	160	
108-67-8	1,3,5-Trimethylbenzene	ND	800	ND	160	
108-05-4	Vinyl Acetate	ND	7,700	ND	2,200	
75-01-4	Vinyl Chloride	ND	800	ND	310	
179601-23-1	m,p-Xylenes	ND	1,700	ND	390	
95-47-6	o-Xylene	ND	800	ND	180	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE RXH AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00979

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0015 Liter(s)
 0.00080 Liter(s)

Initial Pressure (psig): -0.49 Final Pressure (psig): 7.19

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	5,300	ND	2,200	
75-05-8	Acetonitrile	ND	1,000	ND	610	
107-02-8	Acrolein	ND	1,000	ND	450	
107-13-1	Acrylonitrile	ND	1,000	ND	470	
71-43-2	Benzene	ND	510	ND	160	
100-44-7	Benzyl Chloride	ND	1,100	ND	220	
75-27-4	Bromodichloromethane	ND	540	ND	81	
75-25-2	Bromoform	ND	530	ND	52	
74-83-9	Bromomethane	ND	520	ND	130	
106-99-0	1,3-Butadiene	ND	530	ND	240	
123-86-4	n-Butyl Acetate	ND	1,100	ND	240	
75-15-0	Carbon Disulfide	ND	1,100	ND	360	
56-23-5	Carbon Tetrachloride	ND	510	ND	82	
108-90-7	Chlorobenzene	4,900	530	1,100	120	
75-00-3	Chloroethane	ND	520	ND	200	
67-66-3	Chloroform	ND	550	ND	110	
74-87-3	Chloromethane	ND	520	ND	250	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	540	ND	170	
98-82-8	Cumene	ND	530	ND	110	
110-82-7	Cyclohexane	ND	1,100	ND	330	
124-48-1	Dibromochloromethane	ND	540	ND	64	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,000	ND	110	
106-93-4	1,2-Dibromoethane	ND	530	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	540	ND	91	
541-73-1	1,3-Dichlorobenzene	ND	530	ND	89	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE RXH AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00979

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0015 Liter(s)
 0.00080 Liter(s)

Initial Pressure (psig): -0.49 Final Pressure (psig): 7.19

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	530	ND	89	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	540	ND	110	
75-34-3	1,1-Dichloroethane	2,000	540	480	130	
107-06-2	1,2-Dichloroethane	ND	540	ND	130	
75-35-4	1,1-Dichloroethene	1,800	550	450	140	
156-59-2	cis-1,2-Dichloroethene	12,000	530	3,000	130	
156-60-5	trans-1,2-Dichloroethene	ND	540	ND	140	
78-87-5	1,2-Dichloropropane	ND	510	ND	110	
10061-01-5	cis-1,3-Dichloropropene	ND	510	ND	110	
10061-02-6	trans-1,3-Dichloropropene	ND	520	ND	120	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	550	ND	79	
123-91-1	1,4-Dioxane	ND	530	ND	150	
64-17-5	Ethanol	ND	5,100	ND	2,700	
141-78-6	Ethyl Acetate	ND	2,200	ND	600	
100-41-4	Ethylbenzene	8,500	530	2,000	120	
622-96-8	4-Ethyltoluene	ND	540	ND	110	
142-82-5	n-Heptane	1,500	540	370	130	
87-68-3	Hexachlorobutadiene	ND	530	ND	50	
110-54-3	n-Hexane	ND	540	ND	150	
591-78-6	2-Hexanone	ND	1,100	ND	280	
5989-27-5	d-Limonene	ND	510	ND	92	
78-93-3	2-Butanone (MEK)	ND	1,000	ND	350	
80-62-6	Methyl Methacrylate	ND	1,100	ND	280	
1634-04-4	Methyl tert-Butyl Ether	ND	540	ND	150	
75-09-2	Methylene Chloride	2,200	530	630	150	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE RXH AUGUST
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P2104918-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00979

Date Collected: 8/27/21
 Date Received: 9/16/21
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.0015 Liter(s)
 0.00080 Liter(s)

Initial Pressure (psig): -0.49 Final Pressure (psig): 7.19

Container Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,100	ND	280	
91-20-3	Naphthalene	ND	530	ND	100	
111-84-2	n-Nonane	780	530	150	100	
111-65-9	n-Octane	1,600	540	330	120	
80-56-8	alpha-Pinene	ND	550	ND	100	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,000	ND	420	
115-07-1	Propene	ND	530	ND	310	
103-65-1	n-Propylbenzene	ND	540	ND	110	
100-42-5	Styrene	ND	510	ND	120	
79-34-5	1,1,2,2-Tetrachloroethane	ND	530	ND	78	
127-18-4	Tetrachloroethene	130,000	1,000	19,000	150	D
109-99-9	Tetrahydrofuran (THF)	ND	1,000	ND	350	
108-88-3	Toluene	110,000	1,000	29,000	270	D
120-82-1	1,2,4-Trichlorobenzene	ND	1,100	ND	150	
71-55-6	1,1,1-Trichloroethane	99,000	530	18,000	98	
79-00-5	1,1,2-Trichloroethane	790	530	150	98	
79-01-6	Trichloroethene	100,000	530	19,000	99	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	530	ND	95	
76-13-1	Trichlorotrifluoroethane (CFC 113)	6,300	550	830	72	
95-63-6	1,2,4-Trimethylbenzene	ND	530	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	530	ND	110	
108-05-4	Vinyl Acetate	ND	5,100	ND	1,500	
75-01-4	Vinyl Chloride	ND	530	ND	210	
179601-23-1	m,p-Xylenes	38,000	1,100	8,900	260	
95-47-6	o-Xylene	11,000	530	2,500	120	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 8/27/21
 Date(s) Received: 9/16/21
 Date(s) Analyzed: 9/22/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P210922-MB	113	109	110	70-130	
Lab Control Sample	P210922-LCS	110	106	110	70-130	
Duplicate Lab Control Sample	P210922-DLCS	107	108	111	70-130	
SVE-7 AUGUST	P2104918-001	107	115	110	70-130	
SVE-5 AUGUST	P2104918-002	107	114	109	70-130	
MAIN SVE RXH AUGUST	P2104918-003	111	110	108	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	713	728	70	71	60-117	1	25	
75-05-8	Acetonitrile	202	119	123	59	61	59-131	3	25	
107-02-8	Acrolein	416	273	280	66	67	71-123	2	25	L
107-13-1	Acrylonitrile	402	277	283	69	70	65-130	1	25	
71-43-2	Benzene	208	184	185	88	89	72-113	1	25	
100-44-7	Benzyl Chloride	416	415	421	100	101	73-145	1	25	
75-27-4	Bromodichloromethane	208	199	197	96	95	74-119	1	25	
75-25-2	Bromoform	210	198	200	94	95	65-149	1	25	
74-83-9	Bromomethane	206	178	175	86	85	71-112	1	25	
106-99-0	1,3-Butadiene	206	147	149	71	72	63-135	1	25	
123-86-4	n-Butyl Acetate	406	317	325	78	80	75-134	3	25	
75-15-0	Carbon Disulfide	414	393	398	95	96	70-113	1	25	
56-23-5	Carbon Tetrachloride	202	184	180	91	89	67-123	2	25	
108-90-7	Chlorobenzene	206	178	181	86	88	70-118	2	25	
75-00-3	Chloroethane	206	163	171	79	83	66-117	5	25	
67-66-3	Chloroform	210	193	192	92	91	71-114	1	25	
74-87-3	Chloromethane	206	132	135	64	66	53-126	3	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	132	134	65	66	57-127	2	25	
98-82-8	Cumene	206	189	192	92	93	69-125	1	25	
110-82-7	Cyclohexane	412	363	365	88	89	70-119	1	25	
124-48-1	Dibromochloromethane	210	186	189	89	90	69-137	1	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	374	377	93	93	72-145	0	25	
106-93-4	1,2-Dibromoethane	208	192	197	92	95	76-128	3	25	
95-50-1	1,2-Dichlorobenzene	210	184	185	88	88	64-139	0	25	
541-73-1	1,3-Dichlorobenzene	208	185	186	89	89	67-136	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased low.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	177	179	84	85	63-134	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	193	191	93	92	71-112	1	25	
75-34-3	1,1-Dichloroethane	214	178	179	83	84	70-114	1	25	
107-06-2	1,2-Dichloroethane	210	187	183	89	87	71-119	2	25	
75-35-4	1,1-Dichloroethene	210	191	193	91	92	74-114	1	25	
156-59-2	cis-1,2-Dichloroethene	206	165	168	80	82	73-117	2	25	
156-60-5	trans-1,2-Dichloroethene	208	169	169	81	81	76-119	0	25	
78-87-5	1,2-Dichloropropane	206	164	166	80	81	70-118	1	25	
10061-01-5	cis-1,3-Dichloropropene	208	208	209	100	100	81-126	0	25	
10061-02-6	trans-1,3-Dichloropropene	200	203	201	102	101	80-127	1	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	174	178	84	86	62-121	2	25	
123-91-1	1,4-Dioxane	206	206	207	100	100	77-124	0	25	
64-17-5	Ethanol	832	536	553	64	66	57-117	3	25	
141-78-6	Ethyl Acetate	580	444	444	77	77	59-161	0	25	
100-41-4	Ethylbenzene	206	192	195	93	95	71-123	2	25	
622-96-8	4-Ethyltoluene	208	196	200	94	96	69-127	2	25	
142-82-5	n-Heptane	206	192	192	93	93	70-119	0	25	
87-68-3	Hexachlorobutadiene	212	198	198	93	93	55-142	0	25	
110-54-3	n-Hexane	208	147	149	71	72	55-130	1	25	
591-78-6	2-Hexanone	406	317	325	78	80	74-132	3	25	
5989-27-5	d-Limonene	206	234	238	114	116	63-137	2	25	
78-93-3	2-Butanone (MEK)	408	398	403	98	99	74-121	1	25	
80-62-6	Methyl Methacrylate	410	397	398	97	97	78-126	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	202	202	98	98	72-118	0	25	
75-09-2	Methylene Chloride	208	180	182	87	88	75-112	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2104918
 ALS Sample ID: P210922-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/22/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	316	316	77	77	73-129	0	25	
91-20-3	Naphthalene	210	171	175	81	83	62-156	2	25	
111-84-2	n-Nonane	208	148	151	71	73	64-127	3	25	
111-65-9	n-Octane	208	152	155	73	75	68-120	3	25	
80-56-8	alpha-Pinene	210	208	211	99	100	68-129	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	309	311	77	78	61-124	1	25	
115-07-1	Propene	206	128	131	62	64	56-128	3	25	
103-65-1	n-Propylbenzene	208	195	198	94	95	70-127	1	25	
100-42-5	Styrene	202	192	196	95	97	76-132	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	191	195	92	94	69-128	2	25	
127-18-4	Tetrachloroethene	212	186	188	88	89	63-130	1	25	
109-99-9	Tetrahydrofuran (THF)	404	405	405	100	100	73-114	0	25	
108-88-3	Toluene	206	195	201	95	98	70-118	3	25	
120-82-1	1,2,4-Trichlorobenzene	420	376	381	90	91	62-154	1	25	
71-55-6	1,1,1-Trichloroethane	208	188	184	90	88	73-119	2	25	
79-00-5	1,1,2-Trichloroethane	208	180	181	87	87	78-117	0	25	
79-01-6	Trichloroethene	204	174	174	85	85	74-115	0	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	189	186	94	92	71-114	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	181	181	84	84	73-114	0	25	
95-63-6	1,2,4-Trimethylbenzene	206	203	203	99	99	63-142	0	25	
108-67-8	1,3,5-Trimethylbenzene	208	199	201	96	97	66-129	1	25	
108-05-4	Vinyl Acetate	942	979	994	104	106	56-137	2	25	
75-01-4	Vinyl Chloride	208	164	167	79	80	63-123	1	25	
179601-23-1	m,p-Xylenes	416	388	395	93	95	67-127	2	25	
95-47-6	o-Xylene	208	196	199	94	96	69-124	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



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LABORATORY REPORT

October 25, 2021

Project #55929.005 WRR
Sept 2021 SVE analytical
Reviewed by CCW
10/28/2021

Anthony Miller
Gannett Fleming, Incorporated
8040 Excelsior Drive, Ste. 303
Madison, WI 53717

RE:

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on October 8, 2021. For your reference, these analyses have been assigned our service request number P2105316.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Hayden Akers at 9:55 am, Oct 25, 2021

Hayden Akers
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated
Project:

Service Request No: P2105316

CASE NARRATIVE

The samples were received intact under chain of custody on October 8, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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 Simi Valley, CA 93065
 T: +1 805 526 7161
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated

Service Request: P2105316

Date Received: 10/8/2021

Time Received: 10:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
MAIN SVE EXHAUST	P2105316-001	Air	9/30/2021	12:55	1SS00896	-0.66	7.37	X
SVE-5 EXHAUST	P2105316-002	Air	9/30/2021	12:50	1SC00258	-0.20	7.37	X
SVE-6 EXHAUST	P2105316-003	Air	9/30/2021	12:40	1SS00853	-0.12	7.68	X



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

P2105314

Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard	ALS Project No.
---	-----------------

Company Name & Address (Reporting Information) WRR ENVIRONMENTAL SERVICES 5200 BYDER RD EAU CLAIRE, WI 54701	Project Name Project Number P.O. # / Billing Information 8040 EXCELSIOR DR MADISON, WI 53717 LAWRENCE FLEMING	ALS Contact:	Analysis Method	Comments e.g. Actual Preservative or specific instructions
Project Manager TONY MILLER	Email Address for Result Reporting AWMILLER@CFURT.COM	Sampler (Print & Sign) MARK CASNER		
Phone (805)	Fax	Signature:		

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	
MAIN SVE EXHAUST		9/30/21	12:55	15500896	—	-29	0	1L	TD-15215
SVE-5 EXHAUST		9/30/21	12:50	15500258	—	-25	0	1L	TD-15215
SVE-6 EXHAUST		9/30/21	12:40	15500853	—	-29	0	1L	TD-15215

5 of 34

Report Tier Levels - please select						Project Requirements (MRLs, QAPP)	
Tier I - Results (Default if not specified) _____		Tier III (Results + QC & Calibration Summaries) _____		EDD required Yes / No			
Tier II (Results + QC Summaries) _____		Tier IV (Data Validation Package) 10% Surcharge _____		Type: _____ Units: _____		INTACT BROKEN ABSENT	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:		
	10/5/21	1300		10-8-21	1000		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	Cooler / Blank Temperature ____ °C	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00896

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/14/21 & 10/16/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00020 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 7.37

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	8,200	ND	3,400	
75-05-8	Acetonitrile	ND	1,600	ND	940	
107-02-8	Acrolein	ND	1,600	ND	690	
107-13-1	Acrylonitrile	ND	1,600	ND	720	
71-43-2	Benzene	ND	790	ND	250	
100-44-7	Benzyl Chloride	ND	1,700	ND	330	
75-27-4	Bromodichloromethane	ND	830	ND	120	
75-25-2	Bromoform	ND	820	ND	79	
74-83-9	Bromomethane	ND	800	ND	210	
106-99-0	1,3-Butadiene	ND	820	ND	370	
123-86-4	n-Butyl Acetate	ND	1,700	ND	360	
75-15-0	Carbon Disulfide	ND	1,700	ND	550	
56-23-5	Carbon Tetrachloride	ND	790	ND	120	
108-90-7	Chlorobenzene	ND	820	ND	180	
75-00-3	Chloroethane	ND	800	ND	300	
67-66-3	Chloroform	ND	850	ND	170	
74-87-3	Chloromethane	ND	800	ND	390	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	830	ND	270	
98-82-8	Cumene	ND	820	ND	170	
110-82-7	Cyclohexane	ND	1,700	ND	500	
124-48-1	Dibromochloromethane	ND	830	ND	98	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,600	ND	160	
106-93-4	1,2-Dibromoethane	ND	820	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	830	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	820	ND	140	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00896

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/14/21 & 10/16/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00020 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 7.37

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	820	ND	140	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	830	ND	170	
75-34-3	1,1-Dichloroethane	2,700	830	670	210	
107-06-2	1,2-Dichloroethane	ND	830	ND	210	
75-35-4	1,1-Dichloroethene	1,800	850	460	210	
156-59-2	cis-1,2-Dichloroethene	16,000	820	4,000	210	
156-60-5	trans-1,2-Dichloroethene	ND	830	ND	210	
78-87-5	1,2-Dichloropropane	ND	790	ND	170	
10061-01-5	cis-1,3-Dichloropropene	ND	790	ND	170	
10061-02-6	trans-1,3-Dichloropropene	ND	800	ND	180	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	850	ND	120	
123-91-1	1,4-Dioxane	ND	820	ND	230	
64-17-5	Ethanol	ND	7,900	ND	4,200	
141-78-6	Ethyl Acetate	ND	3,300	ND	920	
100-41-4	Ethylbenzene	5,900	820	1,400	190	
622-96-8	4-Ethyltoluene	ND	830	ND	170	
142-82-5	n-Heptane	1,100	830	270	200	
87-68-3	Hexachlorobutadiene	ND	820	ND	77	
110-54-3	n-Hexane	ND	830	ND	240	
591-78-6	2-Hexanone	ND	1,700	ND	420	
5989-27-5	d-Limonene	ND	790	ND	140	
78-93-3	2-Butanone (MEK)	ND	1,600	ND	530	
80-62-6	Methyl Methacrylate	ND	1,700	ND	420	
1634-04-4	Methyl tert-Butyl Ether	ND	830	ND	230	
75-09-2	Methylene Chloride	1,800	820	510	240	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00896

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/14/21 & 10/16/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00020 Liter(s)

Initial Pressure (psig): -0.66 Final Pressure (psig): 7.37

Container Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,700	ND	420	
91-20-3	Naphthalene	ND	820	ND	160	
111-84-2	n-Nonane	880	820	170	160	
111-65-9	n-Octane	1,500	830	330	180	
80-56-8	alpha-Pinene	ND	850	ND	150	
67-63-0	2-Propanol (Isopropyl Alcohol)	5,800	1,600	2,400	640	
115-07-1	Propene	1,900	820	1,100	470	V
103-65-1	n-Propylbenzene	ND	830	ND	170	
100-42-5	Styrene	ND	790	ND	180	
79-34-5	1,1,2,2-Tetrachloroethane	ND	820	ND	120	
127-18-4	Tetrachloroethene	140,000	4,100	21,000	600	D
109-99-9	Tetrahydrofuran (THF)	ND	1,600	ND	530	
108-88-3	Toluene	84,000	820	22,000	220	
120-82-1	1,2,4-Trichlorobenzene	ND	1,700	ND	230	
71-55-6	1,1,1-Trichloroethane	110,000	820	20,000	150	
79-00-5	1,1,2-Trichloroethane	890	820	160	150	
79-01-6	Trichloroethene	120,000	820	22,000	150	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	820	ND	150	
76-13-1	Trichlorotrifluoroethane (CFC 113)	9,600	850	1,300	110	
95-63-6	1,2,4-Trimethylbenzene	ND	820	ND	170	
108-67-8	1,3,5-Trimethylbenzene	ND	820	ND	170	
108-05-4	Vinyl Acetate	ND	7,900	ND	2,200	
75-01-4	Vinyl Chloride	ND	820	ND	320	
179601-23-1	m,p-Xylenes	36,000	1,700	8,200	400	
95-47-6	o-Xylene	11,000	820	2,500	190	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00258

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.20 Final Pressure (psig): 7.37

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	4,000	ND	1,700	
75-05-8	Acetonitrile	ND	760	ND	450	
107-02-8	Acrolein	ND	760	ND	330	
107-13-1	Acrylonitrile	ND	760	ND	350	
71-43-2	Benzene	ND	380	ND	120	
100-44-7	Benzyl Chloride	ND	840	ND	160	
75-27-4	Bromodichloromethane	ND	400	ND	60	
75-25-2	Bromoform	ND	400	ND	38	
74-83-9	Bromomethane	ND	390	ND	100	
106-99-0	1,3-Butadiene	ND	400	ND	180	
123-86-4	n-Butyl Acetate	ND	840	ND	180	
75-15-0	Carbon Disulfide	ND	840	ND	270	
56-23-5	Carbon Tetrachloride	ND	380	ND	60	
108-90-7	Chlorobenzene	ND	400	ND	86	
75-00-3	Chloroethane	7,100	390	2,700	150	
67-66-3	Chloroform	ND	410	ND	84	
74-87-3	Chloromethane	ND	390	ND	190	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	400	ND	130	
98-82-8	Cumene	ND	400	ND	80	
110-82-7	Cyclohexane	ND	840	ND	240	
124-48-1	Dibromochloromethane	ND	400	ND	47	
96-12-8	1,2-Dibromo-3-chloropropane	ND	760	ND	79	
106-93-4	1,2-Dibromoethane	ND	400	ND	51	
95-50-1	1,2-Dichlorobenzene	ND	400	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	400	ND	66	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00258

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.20 Final Pressure (psig): 7.37

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	400	ND	66	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	400	ND	81	
75-34-3	1,1-Dichloroethane	9,100	400	2,300	100	
107-06-2	1,2-Dichloroethane	ND	400	ND	100	
75-35-4	1,1-Dichloroethene	620	410	160	100	
156-59-2	cis-1,2-Dichloroethene	16,000	400	4,100	100	
156-60-5	trans-1,2-Dichloroethene	ND	400	ND	100	
78-87-5	1,2-Dichloropropane	ND	380	ND	82	
10061-01-5	cis-1,3-Dichloropropene	ND	380	ND	84	
10061-02-6	trans-1,3-Dichloropropene	ND	390	ND	85	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	410	ND	59	
123-91-1	1,4-Dioxane	ND	400	ND	110	
64-17-5	Ethanol	ND	3,800	ND	2,000	
141-78-6	Ethyl Acetate	ND	1,600	ND	440	
100-41-4	Ethylbenzene	ND	400	ND	91	
622-96-8	4-Ethyltoluene	ND	400	ND	82	
142-82-5	n-Heptane	ND	400	ND	98	
87-68-3	Hexachlorobutadiene	ND	400	ND	37	
110-54-3	n-Hexane	ND	400	ND	110	
591-78-6	2-Hexanone	ND	840	ND	200	
5989-27-5	d-Limonene	ND	380	ND	68	
78-93-3	2-Butanone (MEK)	ND	760	ND	260	
80-62-6	Methyl Methacrylate	ND	840	ND	200	
1634-04-4	Methyl tert-Butyl Ether	ND	400	ND	110	
75-09-2	Methylene Chloride	ND	400	ND	110	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00258

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.20 Final Pressure (psig): 7.37

Container Dilution Factor: 1.52

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	840	ND	200	
91-20-3	Naphthalene	ND	400	ND	75	
111-84-2	n-Nonane	ND	400	ND	75	
111-65-9	n-Octane	ND	400	ND	86	
80-56-8	alpha-Pinene	ND	410	ND	74	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	760	ND	310	
115-07-1	Propene	ND	400	ND	230	
103-65-1	n-Propylbenzene	ND	400	ND	82	
100-42-5	Styrene	ND	380	ND	89	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	ND	58	
127-18-4	Tetrachloroethene	53,000	400	7,800	58	
109-99-9	Tetrahydrofuran (THF)	ND	760	ND	260	
108-88-3	Toluene	ND	400	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	840	ND	110	
71-55-6	1,1,1-Trichloroethane	63,000	400	11,000	72	
79-00-5	1,1,2-Trichloroethane	ND	400	ND	72	
79-01-6	Trichloroethene	34,000	400	6,300	74	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	400	ND	70	
76-13-1	Trichlorotrifluoroethane (CFC 113)	11,000	410	1,500	54	
95-63-6	1,2,4-Trimethylbenzene	ND	400	ND	80	
108-67-8	1,3,5-Trimethylbenzene	ND	400	ND	80	
108-05-4	Vinyl Acetate	ND	3,800	ND	1,100	
75-01-4	Vinyl Chloride	ND	400	ND	150	
179601-23-1	m,p-Xylenes	ND	840	ND	190	
95-47-6	o-Xylene	ND	400	ND	91	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00853

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.12 Final Pressure (psig): 7.68

Container Dilution Factor: 1.53

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	4,000	ND	1,700	
75-05-8	Acetonitrile	ND	770	ND	460	
107-02-8	Acrolein	ND	770	ND	330	
107-13-1	Acrylonitrile	ND	770	ND	350	
71-43-2	Benzene	ND	380	ND	120	
100-44-7	Benzyl Chloride	ND	840	ND	160	
75-27-4	Bromodichloromethane	ND	410	ND	61	
75-25-2	Bromoform	ND	400	ND	38	
74-83-9	Bromomethane	ND	390	ND	100	
106-99-0	1,3-Butadiene	ND	400	ND	180	
123-86-4	n-Butyl Acetate	ND	840	ND	180	
75-15-0	Carbon Disulfide	ND	840	ND	270	
56-23-5	Carbon Tetrachloride	ND	380	ND	61	
108-90-7	Chlorobenzene	ND	400	ND	86	
75-00-3	Chloroethane	ND	390	ND	150	
67-66-3	Chloroform	ND	410	ND	85	
74-87-3	Chloromethane	ND	390	ND	190	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	410	ND	130	
98-82-8	Cumene	ND	400	ND	81	
110-82-7	Cyclohexane	ND	840	ND	240	
124-48-1	Dibromochloromethane	ND	410	ND	48	
96-12-8	1,2-Dibromo-3-chloropropane	ND	770	ND	79	
106-93-4	1,2-Dibromoethane	ND	400	ND	52	
95-50-1	1,2-Dichlorobenzene	ND	410	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	400	ND	66	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXHAUST

ALS Project ID: P2105316
 ALS Sample ID: P2105316-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS00853

Date Collected: 9/30/21
 Date Received: 10/8/21
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.0020 Liter(s)

Initial Pressure (psig): -0.12 Final Pressure (psig): 7.68

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	400	ND	66	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	410	ND	82	
75-34-3	1,1-Dichloroethane	ND	410	ND	100	
107-06-2	1,2-Dichloroethane	ND	410	ND	100	
75-35-4	1,1-Dichloroethene	430	410	110	100	
156-59-2	cis-1,2-Dichloroethene	770	400	190	100	
156-60-5	trans-1,2-Dichloroethene	ND	410	ND	100	
78-87-5	1,2-Dichloropropane	ND	380	ND	83	
10061-01-5	cis-1,3-Dichloropropene	ND	380	ND	84	
10061-02-6	trans-1,3-Dichloropropene	ND	390	ND	86	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	410	ND	59	
123-91-1	1,4-Dioxane	ND	400	ND	110	
64-17-5	Ethanol	ND	3,800	ND	2,000	
141-78-6	Ethyl Acetate	ND	1,600	ND	450	
100-41-4	Ethylbenzene	ND	400	ND	92	
622-96-8	4-Ethyltoluene	ND	410	ND	83	
142-82-5	n-Heptane	ND	410	ND	99	
87-68-3	Hexachlorobutadiene	ND	400	ND	37	
110-54-3	n-Hexane	ND	410	ND	120	
591-78-6	2-Hexanone	ND	840	ND	210	
5989-27-5	d-Limonene	ND	380	ND	69	
78-93-3	2-Butanone (MEK)	ND	770	ND	260	
80-62-6	Methyl Methacrylate	ND	840	ND	210	
1634-04-4	Methyl tert-Butyl Ether	ND	410	ND	110	
75-09-2	Methylene Chloride	ND	400	ND	110	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXHAUST

ALS Project ID: P2105316

ALS Sample ID: P2105316-003

Test Code: EPA TO-15

Date Collected: 9/30/21

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 10/8/21

Analyst: Simon Cao

Date Analyzed: 10/18/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0020 Liter(s)

Test Notes:

Container ID: 1SS00853

Initial Pressure (psig): -0.12 Final Pressure (psig): 7.68

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	840	ND	210	
91-20-3	Naphthalene	ND	400	ND	76	
111-84-2	n-Nonane	ND	400	ND	76	
111-65-9	n-Octane	ND	410	ND	87	
80-56-8	alpha-Pinene	ND	410	ND	74	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	770	ND	310	
115-07-1	Propene	ND	400	ND	230	
103-65-1	n-Propylbenzene	ND	410	ND	83	
100-42-5	Styrene	ND	380	ND	90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	ND	58	
127-18-4	Tetrachloroethene	69,000	400	10,000	59	
109-99-9	Tetrahydrofuran (THF)	ND	770	ND	260	
108-88-3	Toluene	ND	400	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	840	ND	110	
71-55-6	1,1,1-Trichloroethane	11,000	400	1,900	73	
79-00-5	1,1,2-Trichloroethane	ND	400	ND	73	
79-01-6	Trichloroethene	14,000	400	2,700	74	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	400	ND	71	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	410	ND	54	
95-63-6	1,2,4-Trimethylbenzene	ND	400	ND	81	
108-67-8	1,3,5-Trimethylbenzene	ND	400	ND	81	
108-05-4	Vinyl Acetate	ND	3,800	ND	1,100	
75-01-4	Vinyl Chloride	ND	400	ND	160	
179601-23-1	m,p-Xylenes	ND	840	ND	190	
95-47-6	o-Xylene	ND	400	ND	92	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211014-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/14/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211014-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2105316
 ALS Sample ID: P211014-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	V
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211016-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/16/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211016-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/16/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2105316
 ALS Sample ID: P211016-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/16/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	V
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211018-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/18/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105316

ALS Sample ID: P211018-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank

ALS Project ID: P2105316
 ALS Sample ID: P211018-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated

ALS Project ID: P2105316

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister(s) / 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 9/30/21
 Date(s) Received: 10/8/21
 Date(s) Analyzed: 10/14 - 10/18/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211014-MB	101	103	93	70-130	
Method Blank	P211016-MB	102	109	97	70-130	
Method Blank	P211018-MB	96	118	102	70-130	
Lab Control Sample	P211014-LCS	101	112	96	70-130	
Lab Control Sample	P211016-LCS	99	102	98	70-130	
Lab Control Sample	P211018-LCS	95	114	101	70-130	
Duplicate Lab Control Sample	P211014-DLCS	99	107	89	70-130	
Duplicate Lab Control Sample	P211016-DLCS	96	108	100	70-130	
Duplicate Lab Control Sample	P211018-DLCS	93	116	102	70-130	
MAIN SVE EXHAUST	P2105316-001	100	108	99	70-130	
SVE-5 EXHAUST	P2105316-002	93	118	103	70-130	
SVE-6 EXHAUST	P2105316-003	97	115	101	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316
 ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	944	972	93	95	60-117	2	25	
75-05-8	Acetonitrile	202	161	167	80	83	59-131	4	25	
107-02-8	Acrolein	416	424	436	102	105	71-123	3	25	
107-13-1	Acrylonitrile	402	403	416	100	103	65-130	3	25	
71-43-2	Benzene	208	203	210	98	101	72-113	3	25	
100-44-7	Benzyl Chloride	416	532	522	128	125	73-145	2	25	
75-27-4	Bromodichloromethane	208	225	225	108	108	74-119	0	25	
75-25-2	Bromoform	210	249	252	119	120	65-149	0.8	25	
74-83-9	Bromomethane	206	194	200	94	97	71-112	3	25	
106-99-0	1,3-Butadiene	206	190	192	92	93	63-135	1	25	
123-86-4	n-Butyl Acetate	406	426	458	105	113	75-134	7	25	
75-15-0	Carbon Disulfide	414	428	441	103	107	70-113	4	25	
56-23-5	Carbon Tetrachloride	202	201	200	100	99	67-123	1	25	
108-90-7	Chlorobenzene	206	228	233	111	113	70-118	2	25	
75-00-3	Chloroethane	206	195	213	95	103	66-117	8	25	
67-66-3	Chloroform	210	227	229	108	109	71-114	0.9	25	
74-87-3	Chloromethane	206	195	191	95	93	53-126	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	163	172	80	84	57-127	5	25	
98-82-8	Cumene	206	242	232	117	113	69-125	3	25	
110-82-7	Cyclohexane	412	391	398	95	97	70-119	2	25	
124-48-1	Dibromochloromethane	210	235	234	112	111	69-137	0.9	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	478	466	118	115	72-145	3	25	
106-93-4	1,2-Dibromoethane	208	231	244	111	117	76-128	5	25	
95-50-1	1,2-Dichlorobenzene	210	233	226	111	108	64-139	3	25	
541-73-1	1,3-Dichlorobenzene	208	236	227	113	109	67-136	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316
 ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/14/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	233	227	111	108	63-134	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	210	207	101	100	71-112	1	25	
75-34-3	1,1-Dichloroethane	214	214	218	100	102	70-114	2	25	
107-06-2	1,2-Dichloroethane	210	213	214	101	102	71-119	1	25	
75-35-4	1,1-Dichloroethene	210	216	222	103	106	74-114	3	25	
156-59-2	cis-1,2-Dichloroethene	206	210	216	102	105	73-117	3	25	
156-60-5	trans-1,2-Dichloroethene	208	214	219	103	105	76-119	2	25	
78-87-5	1,2-Dichloropropane	206	201	204	98	99	70-118	1	25	
10061-01-5	cis-1,3-Dichloropropene	208	223	229	107	110	81-126	3	25	
10061-02-6	trans-1,3-Dichloropropene	200	224	224	112	112	80-127	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	206	222	99	107	62-121	8	25	
123-91-1	1,4-Dioxane	206	225	232	109	113	77-124	4	25	
64-17-5	Ethanol	832	796	798	96	96	57-117	0	25	
141-78-6	Ethyl Acetate	580	603	617	104	106	59-161	2	25	
100-41-4	Ethylbenzene	206	236	242	115	117	71-123	2	25	
622-96-8	4-Ethyltoluene	208	248	237	119	114	69-127	4	25	
142-82-5	n-Heptane	206	210	216	102	105	70-119	3	25	
87-68-3	Hexachlorobutadiene	212	217	220	102	104	55-142	2	25	
110-54-3	n-Hexane	208	203	208	98	100	55-130	2	25	
591-78-6	2-Hexanone	406	457	445	113	110	74-132	3	25	
5989-27-5	d-Limonene	206	259	248	126	120	63-137	5	25	
78-93-3	2-Butanone (MEK)	408	443	456	109	112	74-121	3	25	
80-62-6	Methyl Methacrylate	410	455	460	111	112	78-126	0.9	25	
1634-04-4	Methyl tert-Butyl Ether	206	226	228	110	111	72-118	0.9	25	
75-09-2	Methylene Chloride	208	212	218	102	105	75-112	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316

ALS Sample ID: P211014-DLCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/14/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	422	434	102	105	73-129	3	25	
91-20-3	Naphthalene	210	236	249	112	119	62-156	6	25	
111-84-2	n-Nonane	208	205	197	99	95	64-127	4	25	
111-65-9	n-Octane	208	215	233	103	112	68-120	8	25	
80-56-8	alpha-Pinene	210	261	249	124	119	68-129	4	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	397	406	99	102	61-124	3	25	
115-07-1	Propene	206	156	158	76	77	56-128	1	25	
103-65-1	n-Propylbenzene	208	244	234	117	113	70-127	3	25	
100-42-5	Styrene	202	243	236	120	117	76-132	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	233	230	112	111	69-128	0.9	25	
127-18-4	Tetrachloroethene	212	229	228	108	108	63-130	0	25	
109-99-9	Tetrahydrofuran (THF)	404	444	457	110	113	73-114	3	25	
108-88-3	Toluene	206	243	237	118	115	70-118	3	25	
120-82-1	1,2,4-Trichlorobenzene	420	493	492	117	117	62-154	0	25	
71-55-6	1,1,1-Trichloroethane	208	207	206	100	99	73-119	1	25	
79-00-5	1,1,2-Trichloroethane	208	208	211	100	101	78-117	1	25	
79-01-6	Trichloroethene	204	212	214	104	105	74-115	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	216	218	107	108	71-114	0.9	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	221	226	102	105	73-114	3	25	
95-63-6	1,2,4-Trimethylbenzene	206	251	241	122	117	63-142	4	25	
108-67-8	1,3,5-Trimethylbenzene	208	248	238	119	114	66-129	4	25	
108-05-4	Vinyl Acetate	942	1120	1150	119	122	56-137	2	25	
75-01-4	Vinyl Chloride	208	196	219	94	105	63-123	11	25	
179601-23-1	m,p-Xylenes	416	474	485	114	117	67-127	3	25	
95-47-6	o-Xylene	208	241	232	116	112	69-124	4	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316

ALS Sample ID: P211016-DLCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/16/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	889	891	87	87	60-117	0	25	
75-05-8	Acetonitrile	202	142	147	70	73	59-131	4	25	
107-02-8	Acrolein	416	393	399	94	96	71-123	2	25	
107-13-1	Acrylonitrile	402	374	372	93	93	65-130	0	25	
71-43-2	Benzene	208	202	200	97	96	72-113	1	25	
100-44-7	Benzyl Chloride	416	547	544	131	131	73-145	0	25	
75-27-4	Bromodichloromethane	208	223	219	107	105	74-119	2	25	
75-25-2	Bromoform	210	258	267	123	127	65-149	3	25	
74-83-9	Bromomethane	206	190	194	92	94	71-112	2	25	
106-99-0	1,3-Butadiene	206	176	179	85	87	63-135	2	25	
123-86-4	n-Butyl Acetate	406	401	418	99	103	75-134	4	25	
75-15-0	Carbon Disulfide	414	416	410	100	99	70-113	1	25	
56-23-5	Carbon Tetrachloride	202	203	200	100	99	67-123	1	25	
108-90-7	Chlorobenzene	206	230	238	112	116	70-118	4	25	
75-00-3	Chloroethane	206	180	198	87	96	66-117	10	25	
67-66-3	Chloroform	210	223	217	106	103	71-114	3	25	
74-87-3	Chloromethane	206	183	179	89	87	53-126	2	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	152	148	75	73	57-127	3	25	
98-82-8	Cumene	206	243	244	118	118	69-125	0	25	
110-82-7	Cyclohexane	412	382	377	93	92	70-119	1	25	
124-48-1	Dibromochloromethane	210	227	238	108	113	69-137	5	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	520	515	129	127	72-145	2	25	
106-93-4	1,2-Dibromoethane	208	231	243	111	117	76-128	5	25	
95-50-1	1,2-Dichlorobenzene	210	245	244	117	116	64-139	0.9	25	
541-73-1	1,3-Dichlorobenzene	208	248	245	119	118	67-136	0.8	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316
 ALS Sample ID: P211016-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/16/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	245	242	117	115	63-134	2	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	210	208	101	100	71-112	1	25	
75-34-3	1,1-Dichloroethane	214	204	200	95	93	70-114	2	25	
107-06-2	1,2-Dichloroethane	210	209	201	100	96	71-119	4	25	
75-35-4	1,1-Dichloroethene	210	216	216	103	103	74-114	0	25	
156-59-2	cis-1,2-Dichloroethene	206	202	198	98	96	73-117	2	25	
156-60-5	trans-1,2-Dichloroethene	208	206	202	99	97	76-119	2	25	
78-87-5	1,2-Dichloropropane	206	189	186	92	90	70-118	2	25	
10061-01-5	cis-1,3-Dichloropropene	208	217	214	104	103	81-126	1	25	
10061-02-6	trans-1,3-Dichloropropene	200	215	212	108	106	80-127	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	208	225	100	108	62-121	8	25	
123-91-1	1,4-Dioxane	206	224	221	109	107	77-124	2	25	
64-17-5	Ethanol	832	704	722	85	87	57-117	2	25	
141-78-6	Ethyl Acetate	580	563	546	97	94	59-161	3	25	
100-41-4	Ethylbenzene	206	236	243	115	118	71-123	3	25	
622-96-8	4-Ethyltoluene	208	249	250	120	120	69-127	0	25	
142-82-5	n-Heptane	206	204	201	99	98	70-119	1	25	
87-68-3	Hexachlorobutadiene	212	241	253	114	119	55-142	4	25	
110-54-3	n-Hexane	208	190	186	91	89	55-130	2	25	
591-78-6	2-Hexanone	406	394	407	97	100	74-132	3	25	
5989-27-5	d-Limonene	206	252	243	122	118	63-137	3	25	
78-93-3	2-Butanone (MEK)	408	426	421	104	103	74-121	1	25	
80-62-6	Methyl Methacrylate	410	458	458	112	112	78-126	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	222	218	108	106	72-118	2	25	
75-09-2	Methylene Chloride	208	207	207	100	100	75-112	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316

ALS Sample ID: P211016-DLCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/16/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	398	392	97	95	73-129	2	25	
91-20-3	Naphthalene	210	271	286	129	136	62-156	5	25	
111-84-2	n-Nonane	208	192	192	92	92	64-127	0	25	
111-65-9	n-Octane	208	205	215	99	103	68-120	4	25	
80-56-8	alpha-Pinene	210	256	259	122	123	68-129	0.8	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	367	366	92	92	61-124	0	25	
115-07-1	Propene	206	146	146	71	71	56-128	0	25	
103-65-1	n-Propylbenzene	208	241	241	116	116	70-127	0	25	
100-42-5	Styrene	202	248	252	123	125	76-132	2	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	238	240	114	115	69-128	0.9	25	
127-18-4	Tetrachloroethene	212	234	246	110	116	63-130	5	25	
109-99-9	Tetrahydrofuran (THF)	404	428	418	106	103	73-114	3	25	
108-88-3	Toluene	206	224	235	109	114	70-118	4	25	
120-82-1	1,2,4-Trichlorobenzene	420	557	570	133	136	62-154	2	25	
71-55-6	1,1,1-Trichloroethane	208	209	204	100	98	73-119	2	25	
79-00-5	1,1,2-Trichloroethane	208	205	204	99	98	78-117	1	25	
79-01-6	Trichloroethene	204	216	215	106	105	74-115	0.9	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	216	213	107	105	71-114	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	228	225	106	104	73-114	2	25	
95-63-6	1,2,4-Trimethylbenzene	206	255	252	124	122	63-142	2	25	
108-67-8	1,3,5-Trimethylbenzene	208	249	250	120	120	66-129	0	25	
108-05-4	Vinyl Acetate	942	1090	1080	116	115	56-137	0.9	25	
75-01-4	Vinyl Chloride	208	180	198	87	95	63-123	9	25	
179601-23-1	m,p-Xylenes	416	475	489	114	118	67-127	3	25	
95-47-6	o-Xylene	208	242	247	116	119	69-124	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316
 ALS Sample ID: P211018-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	882	863	86	85	60-117	1	25	
75-05-8	Acetonitrile	202	142	140	70	69	59-131	1	25	
107-02-8	Acrolein	416	386	382	93	92	71-123	1	25	
107-13-1	Acrylonitrile	402	365	356	91	89	65-130	2	25	
71-43-2	Benzene	208	197	196	95	94	72-113	1	25	
100-44-7	Benzyl Chloride	416	558	559	134	134	73-145	0	25	
75-27-4	Bromodichloromethane	208	213	212	102	102	74-119	0	25	
75-25-2	Bromoform	210	283	284	135	135	65-149	0	25	
74-83-9	Bromomethane	206	194	189	94	92	71-112	2	25	
106-99-0	1,3-Butadiene	206	176	171	85	83	63-135	2	25	
123-86-4	n-Butyl Acetate	406	422	425	104	105	75-134	1	25	
75-15-0	Carbon Disulfide	414	409	396	99	96	70-113	3	25	
56-23-5	Carbon Tetrachloride	202	197	193	98	96	67-123	2	25	
108-90-7	Chlorobenzene	206	253	253	123	123	70-118	0	25	L
75-00-3	Chloroethane	206	186	196	90	95	66-117	5	25	
67-66-3	Chloroform	210	217	208	103	99	71-114	4	25	
74-87-3	Chloromethane	206	173	166	84	81	53-126	4	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	146	144	72	71	57-127	1	25	
98-82-8	Cumene	206	259	257	126	125	69-125	0.8	25	L
110-82-7	Cyclohexane	412	372	369	90	90	70-119	0	25	
124-48-1	Dibromochloromethane	210	256	254	122	121	69-137	0.8	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	546	538	135	133	72-145	1	25	
106-93-4	1,2-Dibromoethane	208	259	259	125	125	76-128	0	25	
95-50-1	1,2-Dichlorobenzene	210	258	256	123	122	64-139	0.8	25	
541-73-1	1,3-Dichlorobenzene	208	261	259	125	125	67-136	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316

ALS Sample ID: P211018-DLCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: NA

Analyst: Simon Cao

Date Analyzed: 10/18/21

Sample Type: 1.0 L Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	257	255	122	121	63-134	0.8	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	204	194	98	93	71-112	5	25	
75-34-3	1,1-Dichloroethane	214	196	191	92	89	70-114	3	25	
107-06-2	1,2-Dichloroethane	210	198	192	94	91	71-119	3	25	
75-35-4	1,1-Dichloroethene	210	217	212	103	101	74-114	2	25	
156-59-2	cis-1,2-Dichloroethene	206	193	189	94	92	73-117	2	25	
156-60-5	trans-1,2-Dichloroethene	208	199	194	96	93	76-119	3	25	
78-87-5	1,2-Dichloropropane	206	179	180	87	87	70-118	0	25	
10061-01-5	cis-1,3-Dichloropropene	208	208	207	100	100	81-126	0	25	
10061-02-6	trans-1,3-Dichloropropene	200	204	204	102	102	80-127	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	206	221	99	106	62-121	7	25	
123-91-1	1,4-Dioxane	206	219	218	106	106	77-124	0	25	
64-17-5	Ethanol	832	695	691	84	83	57-117	1	25	
141-78-6	Ethyl Acetate	580	543	530	94	91	59-161	3	25	
100-41-4	Ethylbenzene	206	257	255	125	124	71-123	0.8	25	L
622-96-8	4-Ethyltoluene	208	264	261	127	125	69-127	2	25	
142-82-5	n-Heptane	206	195	195	95	95	70-119	0	25	
87-68-3	Hexachlorobutadiene	212	263	260	124	123	55-142	0.8	25	
110-54-3	n-Hexane	208	183	178	88	86	55-130	2	25	
591-78-6	2-Hexanone	406	419	419	103	103	74-132	0	25	
5989-27-5	d-Limonene	206	248	249	120	121	63-137	0.8	25	
78-93-3	2-Butanone (MEK)	408	419	407	103	100	74-121	3	25	
80-62-6	Methyl Methacrylate	410	451	452	110	110	78-126	0	25	
1634-04-4	Methyl tert-Butyl Ether	206	215	210	104	102	72-118	2	25	
75-09-2	Methylene Chloride	208	206	200	99	96	75-112	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105316
 ALS Sample ID: P211018-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/18/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier	
		LCS / DLCS µg/m³	LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD Limit		
108-10-1	4-Methyl-2-pentanone	412	376	377		91	92	73-129	1	25	
91-20-3	Naphthalene	210	289	289		138	138	62-156	0	25	
111-84-2	n-Nonane	208	193	194		93	93	64-127	0	25	
111-65-9	n-Octane	208	219	222		105	107	68-120	2	25	
80-56-8	alpha-Pinene	210	270	270		129	129	68-129	0	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	355	348		89	87	61-124	2	25	
115-07-1	Propene	206	136	130		66	63	56-128	5	25	
103-65-1	n-Propylbenzene	208	253	251		122	121	70-127	0.8	25	
100-42-5	Styrene	202	266	266		132	132	76-132	0	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	247	248		119	119	69-128	0	25	
127-18-4	Tetrachloroethene	212	268	264		126	125	63-130	0.8	25	
109-99-9	Tetrahydrofuran (THF)	404	415	404		103	100	73-114	3	25	
108-88-3	Toluene	206	252	251		122	122	70-118	0	25	L
120-82-1	1,2,4-Trichlorobenzene	420	591	583		141	139	62-154	1	25	
71-55-6	1,1,1-Trichloroethane	208	202	199		97	96	73-119	1	25	
79-00-5	1,1,2-Trichloroethane	208	201	199		97	96	78-117	1	25	
79-01-6	Trichloroethene	204	215	213		105	104	74-115	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	212	205		105	101	71-114	4	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	232	226		107	105	73-114	2	25	
95-63-6	1,2,4-Trimethylbenzene	206	265	263		129	128	63-142	0.8	25	
108-67-8	1,3,5-Trimethylbenzene	208	265	263		127	126	66-129	0.8	25	
108-05-4	Vinyl Acetate	942	1080	1060		115	113	56-137	2	25	
75-01-4	Vinyl Chloride	208	178	199		86	96	63-123	11	25	
179601-23-1	m,p-Xylenes	416	516	510		124	123	67-127	0.8	25	
95-47-6	o-Xylene	208	257	257		124	124	69-124	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.



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LABORATORY REPORT

November 12, 2021

Project #55929.005 WRR
Oct 2021 SVE exhaust gas samples
Reviewed by CCW
11/14/2021

Anthony Miller
Gannett Fleming, Incorporated
8040 Excelsior Drive, Ste. 303
Madison, WI 53717

RE:

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on November 3, 2021. For your reference, these analyses have been assigned our service request number P2105797.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Nicole.White at 6:53 pm, Nov 12, 2021

Nicole White
Project Manager



Client: Gannett Fleming, Incorporated
Project:

Service Request No: P2105797

CASE NARRATIVE

The samples were received intact under chain of custody on November 3, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The minimum criterion for hexachlorobutadiene was not met in the Continuing Calibration Verification (CCV) analyzed on November 11, 2021. In accordance with ALS Environmental standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte(s) of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte(s) at the MRL. Due to the sensitivity shown to be adequate to detect the compound(s) in question and the compound(s) were not detected in the field sample(s), the data quality has not been significantly affected. This procedure is a quantitative confirmation of non-detect results at or below the MRL. No further corrective action was necessary.

The spike recovery of vinyl chloride for the Laboratory Control Sample (LCS) and Duplicate Laboratory Control Sample (DLCS) analyzed on November 11, 2021 were outside the Laboratory generated control criterion. The recovery error equates to a potential high bias. However, the spike recovery of the analyte(s) in question were within the method criteria; therefore, the data quality has not been significantly affected. No further corrective action was required.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlab.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated

Service Request: P2105797

Date Received: 11/3/2021

Time Received: 12:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
SVE-6 EXH	P2105797-001	Air	10/29/2021	12:25	1SS01326	0.07	7.08	X
SVE-5 EXH	P2105797-002	Air	10/29/2021	12:30	1SS01275	0.16	7.14	X
MAIN SVE EXH	P2105797-003	Air	10/29/2021	12:38	1SS01220	0.22	7.77	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-001

Test Code: EPA TO-15

Date Collected: 10/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/3/21

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.010 Liter(s)

Test Notes:

0.0020 Liter(s)

Container ID: 1SS01326

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.08

Container Dilution Factor: 1.47

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	760	ND	320	
75-05-8	Acetonitrile	ND	150	ND	88	
107-02-8	Acrolein	ND	150	ND	64	
107-13-1	Acrylonitrile	ND	150	ND	68	
71-43-2	Benzene	ND	74	ND	23	
100-44-7	Benzyl Chloride	ND	160	ND	31	
75-27-4	Bromodichloromethane	ND	78	ND	12	
75-25-2	Bromoform	ND	76	ND	7.4	
74-83-9	Bromomethane	ND	75	ND	19	
106-99-0	1,3-Butadiene	ND	76	ND	35	
123-86-4	n-Butyl Acetate	ND	160	ND	34	
75-15-0	Carbon Disulfide	ND	160	ND	52	
56-23-5	Carbon Tetrachloride	ND	74	ND	12	
108-90-7	Chlorobenzene	ND	76	ND	17	
75-00-3	Chloroethane	ND	75	ND	28	
67-66-3	Chloroform	ND	79	ND	16	
74-87-3	Chloromethane	ND	75	ND	36	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	78	ND	25	
98-82-8	Cumene	ND	76	ND	16	
110-82-7	Cyclohexane	ND	160	ND	47	
124-48-1	Dibromochloromethane	ND	78	ND	9.1	
96-12-8	1,2-Dibromo-3-chloropropane	ND	150	ND	15	
106-93-4	1,2-Dibromoethane	ND	76	ND	10	
95-50-1	1,2-Dichlorobenzene	ND	78	ND	13	
541-73-1	1,3-Dichlorobenzene	ND	76	ND	13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXH

ALS Project ID: P2105797
 ALS Sample ID: P2105797-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01326

Date Collected: 10/29/21
 Date Received: 11/3/21
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.08

Container Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	76	ND	13	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	78	ND	16	
75-34-3	1,1-Dichloroethane	160	78	38	19	
107-06-2	1,2-Dichloroethane	ND	78	ND	19	
75-35-4	1,1-Dichloroethene	320	79	80	20	
156-59-2	cis-1,2-Dichloroethene	560	76	140	19	
156-60-5	trans-1,2-Dichloroethene	ND	78	ND	20	
78-87-5	1,2-Dichloropropane	ND	74	ND	16	
10061-01-5	cis-1,3-Dichloropropene	ND	74	ND	16	
10061-02-6	trans-1,3-Dichloropropene	ND	75	ND	17	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	79	ND	11	
123-91-1	1,4-Dioxane	ND	76	ND	21	
64-17-5	Ethanol	ND	740	ND	390	
141-78-6	Ethyl Acetate	ND	310	ND	86	
100-41-4	Ethylbenzene	ND	76	ND	18	
622-96-8	4-Ethyltoluene	ND	78	ND	16	
142-82-5	n-Heptane	ND	78	ND	19	
87-68-3	Hexachlorobutadiene	ND	76	ND	7.2	V
110-54-3	n-Hexane	ND	78	ND	22	
591-78-6	2-Hexanone	ND	160	ND	39	
5989-27-5	d-Limonene	ND	74	ND	13	
78-93-3	2-Butanone (MEK)	ND	150	ND	50	
80-62-6	Methyl Methacrylate	ND	160	ND	40	
1634-04-4	Methyl tert-Butyl Ether	ND	78	ND	22	
75-09-2	Methylene Chloride	ND	76	ND	22	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-6 EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01326

Date Collected: 10/29/21
 Date Received: 11/3/21
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 0.010 Liter(s)
 0.0020 Liter(s)

Initial Pressure (psig): 0.07 Final Pressure (psig): 7.08

Container Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	160	ND	39	
91-20-3	Naphthalene	ND	76	ND	15	
111-84-2	n-Nonane	ND	76	ND	15	
111-65-9	n-Octane	ND	78	ND	17	
80-56-8	alpha-Pinene	ND	79	ND	14	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	150	ND	60	
115-07-1	Propene	ND	76	ND	44	
103-65-1	n-Propylbenzene	ND	78	ND	16	
100-42-5	Styrene	ND	74	ND	17	
79-34-5	1,1,2,2-Tetrachloroethane	ND	76	ND	11	
127-18-4	Tetrachloroethene	43,000	380	6,300	56	D
109-99-9	Tetrahydrofuran (THF)	ND	150	ND	50	
108-88-3	Toluene	ND	76	ND	20	
120-82-1	1,2,4-Trichlorobenzene	ND	160	ND	22	
71-55-6	1,1,1-Trichloroethane	8,100	76	1,500	14	
79-00-5	1,1,2-Trichloroethane	ND	76	ND	14	
79-01-6	Trichloroethene	13,000	76	2,400	14	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	76	ND	14	
76-13-1	Trichlorotrifluoroethane (CFC 113)	190	79	24	10	
95-63-6	1,2,4-Trimethylbenzene	ND	76	ND	16	
108-67-8	1,3,5-Trimethylbenzene	220	76	45	16	
108-05-4	Vinyl Acetate	ND	740	ND	210	
75-01-4	Vinyl Chloride	ND	76	ND	30	
179601-23-1	m,p-Xylenes	ND	160	ND	37	
95-47-6	o-Xylene	ND	76	ND	18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-002

Test Code: EPA TO-15

Date Collected: 10/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/3/21

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

0.00050 Liter(s)

Container ID: 1SS01275

Initial Pressure (psig): 0.16 Final Pressure (psig): 7.14

Container Dilution Factor: 1.47

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	7,600	ND	3,200	
75-05-8	Acetonitrile	ND	1,500	ND	880	
107-02-8	Acrolein	ND	1,500	ND	640	
107-13-1	Acrylonitrile	ND	1,500	ND	680	
71-43-2	Benzene	ND	740	ND	230	
100-44-7	Benzyl Chloride	ND	1,600	ND	310	
75-27-4	Bromodichloromethane	ND	780	ND	120	
75-25-2	Bromoform	ND	760	ND	74	
74-83-9	Bromomethane	ND	750	ND	190	
106-99-0	1,3-Butadiene	ND	760	ND	350	
123-86-4	n-Butyl Acetate	ND	1,600	ND	340	
75-15-0	Carbon Disulfide	ND	1,600	ND	520	
56-23-5	Carbon Tetrachloride	ND	740	ND	120	
108-90-7	Chlorobenzene	ND	760	ND	170	
75-00-3	Chloroethane	17,000	750	6,300	280	
67-66-3	Chloroform	ND	790	ND	160	
74-87-3	Chloromethane	ND	750	ND	360	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	780	ND	250	
98-82-8	Cumene	ND	760	ND	160	
110-82-7	Cyclohexane	ND	1,600	ND	470	
124-48-1	Dibromochloromethane	ND	780	ND	91	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,500	ND	150	
106-93-4	1,2-Dibromoethane	ND	760	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	780	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	760	ND	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXH

ALS Project ID: P2105797
 ALS Sample ID: P2105797-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01275

Date Collected: 10/29/21
 Date Received: 11/3/21
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 0.0010 Liter(s)
 0.00050 Liter(s)

Initial Pressure (psig): 0.16 Final Pressure (psig): 7.14

Container Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	760	ND	130	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	780	ND	160	
75-34-3	1,1-Dichloroethane	22,000	780	5,400	190	
107-06-2	1,2-Dichloroethane	ND	780	ND	190	
75-35-4	1,1-Dichloroethene	1,200	790	300	200	
156-59-2	cis-1,2-Dichloroethene	41,000	760	10,000	190	
156-60-5	trans-1,2-Dichloroethene	ND	780	ND	200	
78-87-5	1,2-Dichloropropane	ND	740	ND	160	
10061-01-5	cis-1,3-Dichloropropene	ND	740	ND	160	
10061-02-6	trans-1,3-Dichloropropene	ND	750	ND	170	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	790	ND	110	
123-91-1	1,4-Dioxane	ND	760	ND	210	
64-17-5	Ethanol	ND	7,400	ND	3,900	
141-78-6	Ethyl Acetate	ND	3,100	ND	860	
100-41-4	Ethylbenzene	ND	760	ND	180	
622-96-8	4-Ethyltoluene	ND	780	ND	160	
142-82-5	n-Heptane	ND	780	ND	190	
87-68-3	Hexachlorobutadiene	ND	760	ND	72	V
110-54-3	n-Hexane	ND	780	ND	220	
591-78-6	2-Hexanone	ND	1,600	ND	390	
5989-27-5	d-Limonene	ND	740	ND	130	
78-93-3	2-Butanone (MEK)	ND	1,500	ND	500	
80-62-6	Methyl Methacrylate	ND	1,600	ND	400	
1634-04-4	Methyl tert-Butyl Ether	ND	780	ND	220	
75-09-2	Methylene Chloride	ND	760	ND	220	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: SVE-5 EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-002

Test Code: EPA TO-15

Date Collected: 10/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/3/21

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

0.00050 Liter(s)

Container ID: 1SS01275

Initial Pressure (psig): 0.16 Final Pressure (psig): 7.14

Container Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,600	ND	390	
91-20-3	Naphthalene	ND	760	ND	150	
111-84-2	n-Nonane	ND	760	ND	150	
111-65-9	n-Octane	ND	780	ND	170	
80-56-8	alpha-Pinene	ND	790	ND	140	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,500	ND	600	
115-07-1	Propene	ND	760	ND	440	
103-65-1	n-Propylbenzene	ND	780	ND	160	
100-42-5	Styrene	ND	740	ND	170	
79-34-5	1,1,2,2-Tetrachloroethane	ND	760	ND	110	
127-18-4	Tetrachloroethene	92,000	760	14,000	110	
109-99-9	Tetrahydrofuran (THF)	ND	1,500	ND	500	
108-88-3	Toluene	ND	760	ND	200	
120-82-1	1,2,4-Trichlorobenzene	ND	1,600	ND	220	
71-55-6	1,1,1-Trichloroethane	120,000	1,500	22,000	280	D
79-00-5	1,1,2-Trichloroethane	ND	760	ND	140	
79-01-6	Trichloroethene	100,000	760	19,000	140	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	760	ND	140	
76-13-1	Trichlorotrifluoroethane (CFC 113)	21,000	790	2,800	100	
95-63-6	1,2,4-Trimethylbenzene	ND	760	ND	160	
108-67-8	1,3,5-Trimethylbenzene	ND	760	ND	160	
108-05-4	Vinyl Acetate	ND	7,400	ND	2,100	
75-01-4	Vinyl Chloride	ND	760	ND	300	
179601-23-1	m,p-Xylenes	ND	1,600	ND	370	
95-47-6	o-Xylene	ND	760	ND	180	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-003

Test Code: EPA TO-15

Date Collected: 10/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/3/21

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SS01220

Initial Pressure (psig): 0.22 Final Pressure (psig): 7.77

Container Dilution Factor: 1.51

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	7,900	ND	3,300	
75-05-8	Acetonitrile	ND	1,500	ND	900	
107-02-8	Acrolein	ND	1,500	ND	660	
107-13-1	Acrylonitrile	ND	1,500	ND	700	
71-43-2	Benzene	ND	760	ND	240	
100-44-7	Benzyl Chloride	ND	1,700	ND	320	
75-27-4	Bromodichloromethane	ND	800	ND	120	
75-25-2	Bromoform	ND	790	ND	76	
74-83-9	Bromomethane	ND	770	ND	200	
106-99-0	1,3-Butadiene	ND	790	ND	360	
123-86-4	n-Butyl Acetate	ND	1,700	ND	350	
75-15-0	Carbon Disulfide	ND	1,700	ND	530	
56-23-5	Carbon Tetrachloride	ND	760	ND	120	
108-90-7	Chlorobenzene	ND	790	ND	170	
75-00-3	Chloroethane	ND	770	ND	290	
67-66-3	Chloroform	ND	820	ND	170	
74-87-3	Chloromethane	ND	770	ND	370	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	800	ND	260	
98-82-8	Cumene	ND	790	ND	160	
110-82-7	Cyclohexane	ND	1,700	ND	480	
124-48-1	Dibromochloromethane	ND	800	ND	94	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,500	ND	160	
106-93-4	1,2-Dibromoethane	ND	790	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	800	ND	130	
541-73-1	1,3-Dichlorobenzene	ND	790	ND	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-003

Test Code: EPA TO-15

Date Collected: 10/29/21

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 11/3/21

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.0010 Liter(s)

Test Notes:

Container ID: 1SS01220

Initial Pressure (psig): 0.22 Final Pressure (psig): 7.77

Container Dilution Factor: 1.51

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	790	ND	130	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	800	ND	160	
75-34-3	1,1-Dichloroethane	2,000	800	490	200	
107-06-2	1,2-Dichloroethane	ND	800	ND	200	
75-35-4	1,1-Dichloroethene	1,500	820	380	210	
156-59-2	cis-1,2-Dichloroethene	12,000	790	3,000	200	
156-60-5	trans-1,2-Dichloroethene	ND	800	ND	200	
78-87-5	1,2-Dichloropropane	ND	760	ND	160	
10061-01-5	cis-1,3-Dichloropropene	ND	760	ND	170	
10061-02-6	trans-1,3-Dichloropropene	ND	770	ND	170	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	820	ND	120	
123-91-1	1,4-Dioxane	ND	790	ND	220	
64-17-5	Ethanol	ND	7,600	ND	4,000	
141-78-6	Ethyl Acetate	ND	3,200	ND	880	
100-41-4	Ethylbenzene	2,600	790	590	180	
622-96-8	4-Ethyltoluene	ND	800	ND	160	
142-82-5	n-Heptane	ND	800	ND	200	
87-68-3	Hexachlorobutadiene	ND	790	ND	74	V
110-54-3	n-Hexane	ND	800	ND	230	
591-78-6	2-Hexanone	ND	1,700	ND	410	
5989-27-5	d-Limonene	ND	760	ND	140	
78-93-3	2-Butanone (MEK)	ND	1,500	ND	510	
80-62-6	Methyl Methacrylate	ND	1,700	ND	410	
1634-04-4	Methyl tert-Butyl Ether	ND	800	ND	220	
75-09-2	Methylene Chloride	1,200	790	350	230	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated

Client Sample ID: MAIN SVE EXH

ALS Project ID: P2105797

ALS Sample ID: P2105797-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:
 Container ID: 1SS01220

Date Collected: 10/29/21
 Date Received: 11/3/21
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 0.0010 Liter(s)

Initial Pressure (psig): 0.22 Final Pressure (psig): 7.77

Container Dilution Factor: 1.51

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,700	ND	410	
91-20-3	Naphthalene	ND	790	ND	150	
111-84-2	n-Nonane	ND	790	ND	150	
111-65-9	n-Octane	ND	800	ND	170	
80-56-8	alpha-Pinene	ND	820	ND	150	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,500	ND	610	
115-07-1	Propene	ND	790	ND	460	
103-65-1	n-Propylbenzene	ND	800	ND	160	
100-42-5	Styrene	ND	760	ND	180	
79-34-5	1,1,2,2-Tetrachloroethane	ND	790	ND	110	
127-18-4	Tetrachloroethene	130,000	790	19,000	120	
109-99-9	Tetrahydrofuran (THF)	ND	1,500	ND	510	
108-88-3	Toluene	39,000	790	10,000	210	
120-82-1	1,2,4-Trichlorobenzene	ND	1,700	ND	220	
71-55-6	1,1,1-Trichloroethane	96,000	790	18,000	140	
79-00-5	1,1,2-Trichloroethane	ND	790	ND	140	
79-01-6	Trichloroethene	100,000	790	19,000	150	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	790	ND	140	
76-13-1	Trichlorotrifluoroethane (CFC 113)	8,100	820	1,100	110	
95-63-6	1,2,4-Trimethylbenzene	ND	790	ND	160	
108-67-8	1,3,5-Trimethylbenzene	ND	790	ND	160	
108-05-4	Vinyl Acetate	ND	7,600	ND	2,100	
75-01-4	Vinyl Chloride	ND	790	ND	310	
179601-23-1	m,p-Xylenes	18,000	1,700	4,100	380	
95-47-6	o-Xylene	6,500	790	1,500	180	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105797

ALS Sample ID: P211111-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105797

ALS Sample ID: P211111-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	V
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Method Blank

ALS Project ID: P2105797

ALS Sample ID: P211111-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated

ALS Project ID: P2105797

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 10/29/21
 Date(s) Received: 11/3/21
 Date(s) Analyzed: 11/11/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211111-MB	91	91	91	70-130	
Lab Control Sample	P211111-LCS	97	84	90	70-130	
Duplicate Lab Control Sample	P211111-DLCS	97	86	91	70-130	
SVE-6 EXH	P2105797-001	99	89	88	70-130	
SVE-5 EXH	P2105797-002	95	90	87	70-130	
MAIN SVE EXH	P2105797-003	95	88	93	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105797
 ALS Sample ID: P211111-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Jessie Macaluso
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/11/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance	RPD			
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	LCS	DLCS	Limits	Limit	Qualifier		
67-64-1	Acetone	1,020	1050	1070	103	105	60-117	2	25		
75-05-8	Acetonitrile	202	174	181	86	90	59-131	5	25		
107-02-8	Acrolein	416	404	413	97	99	71-123	2	25		
107-13-1	Acrylonitrile	402	383	391	95	97	65-130	2	25		
71-43-2	Benzene	208	208	211	100	101	72-113	1	25		
100-44-7	Benzyl Chloride	416	413	421	99	101	73-145	2	25		
75-27-4	Bromodichloromethane	208	216	219	104	105	74-119	1	25		
75-25-2	Bromoform	210	186	194	89	92	65-149	3	25		
74-83-9	Bromomethane	206	194	200	94	97	71-112	3	25		
106-99-0	1,3-Butadiene	206	213	221	103	107	63-135	4	25		
123-86-4	n-Butyl Acetate	406	397	408	98	100	75-134	2	25		
75-15-0	Carbon Disulfide	414	366	376	88	91	70-113	3	25		
56-23-5	Carbon Tetrachloride	202	191	194	95	96	67-123	1	25		
108-90-7	Chlorobenzene	206	172	176	83	85	70-118	2	25		
75-00-3	Chloroethane	206	179	185	87	90	66-117	3	25		
67-66-3	Chloroform	210	204	206	97	98	71-114	1	25		
74-87-3	Chloromethane	206	226	224	110	109	53-126	0.9	25		
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	202	207	99	101	57-127	2	25		
98-82-8	Cumene	206	180	186	87	90	69-125	3	25		
110-82-7	Cyclohexane	412	465	463	113	112	70-119	0.9	25		
124-48-1	Dibromochloromethane	210	174	179	83	85	69-137	2	25		
96-12-8	1,2-Dibromo-3-chloropropane	404	366	376	91	93	72-145	2	25		
106-93-4	1,2-Dibromoethane	208	172	180	83	87	76-128	5	25		
95-50-1	1,2-Dichlorobenzene	210	191	195	91	93	64-139	2	25		
541-73-1	1,3-Dichlorobenzene	208	191	194	92	93	67-136	1	25		

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105797

ALS Sample ID: P211111-DLCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Jessie Macaluso

Date Analyzed: 11/11/21

Sample Type: 1.0 L Silonite Summa Canister

Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	179	185	85	88	63-134	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	186	192	89	92	71-112	3	25	
75-34-3	1,1-Dichloroethane	214	193	196	90	92	70-114	2	25	
107-06-2	1,2-Dichloroethane	210	202	205	96	98	71-119	2	25	
75-35-4	1,1-Dichloroethene	210	199	204	95	97	74-114	2	25	
156-59-2	cis-1,2-Dichloroethene	206	198	200	96	97	73-117	1	25	
156-60-5	trans-1,2-Dichloroethene	208	199	202	96	97	76-119	1	25	
78-87-5	1,2-Dichloropropane	206	205	207	100	100	70-118	0	25	
10061-01-5	cis-1,3-Dichloropropene	208	226	229	109	110	81-126	0.9	25	
10061-02-6	trans-1,3-Dichloropropene	200	213	218	107	109	80-127	2	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	222	222	107	107	62-121	0	25	
123-91-1	1,4-Dioxane	206	208	211	101	102	77-124	1	25	
64-17-5	Ethanol	832	853	881	103	106	57-117	3	25	
141-78-6	Ethyl Acetate	580	726	718	125	124	59-161	0.8	25	
100-41-4	Ethylbenzene	206	177	182	86	88	71-123	2	25	
622-96-8	4-Ethyltoluene	208	190	194	91	93	69-127	2	25	
142-82-5	n-Heptane	206	223	225	108	109	70-119	0.9	25	
87-68-3	Hexachlorobutadiene	212	143	146	67	69	55-142	3	25	
110-54-3	n-Hexane	208	249	248	120	119	55-130	0.8	25	
591-78-6	2-Hexanone	406	397	409	98	101	74-132	3	25	
5989-27-5	d-Limonene	206	232	235	113	114	63-137	0.9	25	
78-93-3	2-Butanone (MEK)	408	419	425	103	104	74-121	1	25	
80-62-6	Methyl Methacrylate	410	442	452	108	110	78-126	2	25	
1634-04-4	Methyl tert-Butyl Ether	206	200	190	97	92	72-118	5	25	
75-09-2	Methylene Chloride	208	192	196	92	94	75-112	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2105797

ALS Sample ID: P211111-DLCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Jessie Macaluso

Sample Type: 1.0 L Silonite Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 11/11/21

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	462	466	112	113	73-129	0.9	25	
91-20-3	Naphthalene	210	148	153	70	73	62-156	4	25	
111-84-2	n-Nonane	208	213	219	102	105	64-127	3	25	
111-65-9	n-Octane	208	181	187	87	90	68-120	3	25	
80-56-8	alpha-Pinene	210	196	201	93	96	68-129	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	425	432	106	108	61-124	2	25	
115-07-1	Propene	206	196	203	95	99	56-128	4	25	
103-65-1	n-Propylbenzene	208	189	193	91	93	70-127	2	25	
100-42-5	Styrene	202	184	191	91	95	76-132	4	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	196	202	94	97	69-128	3	25	
127-18-4	Tetrachloroethene	212	172	178	81	84	63-130	4	25	
109-99-9	Tetrahydrofuran (THF)	404	390	397	97	98	73-114	1	25	
108-88-3	Toluene	206	170	176	83	85	70-118	2	25	
120-82-1	1,2,4-Trichlorobenzene	420	346	356	82	85	62-154	4	25	
71-55-6	1,1,1-Trichloroethane	208	194	196	93	94	73-119	1	25	
79-00-5	1,1,2-Trichloroethane	208	205	208	99	100	78-117	1	25	
79-01-6	Trichloroethene	204	211	212	103	104	74-115	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	182	186	90	92	71-114	2	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	196	199	91	92	73-114	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	206	208	100	101	63-142	1	25	
108-67-8	1,3,5-Trimethylbenzene	208	189	194	91	93	66-129	2	25	
108-05-4	Vinyl Acetate	942	1110	1120	118	119	56-137	0.8	25	
75-01-4	Vinyl Chloride	208	259	264	125	127	63-123	2	25	L
179601-23-1	m,p-Xylenes	416	370	382	89	92	67-127	3	25	
95-47-6	o-Xylene	208	182	187	88	90	69-124	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

L = Laboratory control sample recovery outside the specified limits, results may be biased high.



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LABORATORY REPORT

November 30, 2021

Project #55929.005 WRR
Nov 2021 SVE exhaust gas samples
Reviewed by CCW
12/6/2021

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

RE: WRR - Eau Claire, WI - 55929.005 / 55929.005

Dear Anthony:

Enclosed are the results of the samples submitted to our laboratory on November 19, 2021. For your reference, these analyses have been assigned our service request number P2106107.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Nicole.White at 5:54 pm, Nov 30, 2021

Nicole White
Project Manager



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Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Gannett Fleming, Incorporated
Project: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request No: P2106107

CASE NARRATIVE

The samples were received intact under chain of custody on November 19, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Gannett Fleming, Incorporated
 Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

Service Request: P2106107

Date Received: 11/19/2021
 Time Received: 10:00

TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	
MAIN SVE EXH	P2106107-001	Air	11/15/2021	09:50	1SC00962	0.62	6.10	X
SVE-5 EXH	P2106107-002	Air	11/15/2021	09:40	1SC01098	0.46	5.43	X
SVE-6 EXH	P2106107-003	Air	11/15/2021	09:45	1SC01225	-0.10	5.11	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00962

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): 0.62 Final Pressure (psig): 6.10

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	5,700	ND	2,400	
75-05-8	Acetonitrile	ND	1,100	ND	650	
107-02-8	Acrolein	ND	1,100	ND	470	
107-13-1	Acrylonitrile	ND	1,100	ND	500	
71-43-2	Benzene	ND	540	ND	170	
100-44-7	Benzyl Chloride	ND	1,200	ND	230	
75-27-4	Bromodichloromethane	ND	580	ND	86	
75-25-2	Bromoform	ND	570	ND	55	
74-83-9	Bromomethane	ND	550	ND	140	
106-99-0	1,3-Butadiene	ND	570	ND	260	
123-86-4	n-Butyl Acetate	ND	1,200	ND	250	
75-15-0	Carbon Disulfide	ND	1,200	ND	380	
56-23-5	Carbon Tetrachloride	ND	540	ND	87	
108-90-7	Chlorobenzene	1,300	570	280	120	
75-00-3	Chloroethane	ND	550	ND	210	
67-66-3	Chloroform	ND	590	ND	120	
74-87-3	Chloromethane	ND	550	ND	270	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	580	ND	180	
98-82-8	Cumene	ND	570	ND	120	
110-82-7	Cyclohexane	ND	1,200	ND	350	
124-48-1	Dibromochloromethane	ND	580	ND	68	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1,100	ND	110	
106-93-4	1,2-Dibromoethane	ND	570	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	580	ND	96	
541-73-1	1,3-Dichlorobenzene	ND	570	ND	94	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00962

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): 0.62 Final Pressure (psig): 6.10

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	570	ND	94	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	580	ND	120	
75-34-3	1,1-Dichloroethane	2,200	580	550	140	
107-06-2	1,2-Dichloroethane	ND	580	ND	140	
75-35-4	1,1-Dichloroethene	1,500	590	380	150	
156-59-2	cis-1,2-Dichloroethene	10,000	570	2,600	140	
156-60-5	trans-1,2-Dichloroethene	ND	580	ND	150	
78-87-5	1,2-Dichloropropane	ND	540	ND	120	
10061-01-5	cis-1,3-Dichloropropene	ND	540	ND	120	
10061-02-6	trans-1,3-Dichloropropene	ND	550	ND	120	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	590	ND	84	
123-91-1	1,4-Dioxane	ND	570	ND	160	
64-17-5	Ethanol	ND	5,400	ND	2,900	
141-78-6	Ethyl Acetate	ND	2,300	ND	630	
100-41-4	Ethylbenzene	1,800	570	410	130	
622-96-8	4-Ethyltoluene	ND	580	ND	120	
142-82-5	n-Heptane	ND	580	ND	140	
87-68-3	Hexachlorobutadiene	ND	570	ND	53	
110-54-3	n-Hexane	ND	580	ND	160	
591-78-6	2-Hexanone	ND	1,200	ND	290	
5989-27-5	d-Limonene	ND	540	ND	98	
78-93-3	2-Butanone (MEK)	ND	1,100	ND	370	
80-62-6	Methyl Methacrylate	ND	1,200	ND	290	
1634-04-4	Methyl tert-Butyl Ether	ND	580	ND	160	
75-09-2	Methylene Chloride	1,000	570	300	160	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: MAIN SVE EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC00962

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.00125 Liter(s)

Initial Pressure (psig): 0.62 Final Pressure (psig): 6.10

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1,200	ND	290	
91-20-3	Naphthalene	ND	570	ND	110	
111-84-2	n-Nonane	ND	570	ND	110	
111-65-9	n-Octane	740	580	160	120	
80-56-8	alpha-Pinene	ND	590	ND	110	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1,100	ND	440	
115-07-1	Propene	ND	570	ND	330	
103-65-1	n-Propylbenzene	ND	580	ND	120	
100-42-5	Styrene	ND	540	ND	130	
79-34-5	1,1,2,2-Tetrachloroethane	ND	570	ND	82	
127-18-4	Tetrachloroethene	89,000	570	13,000	83	
109-99-9	Tetrahydrofuran (THF)	ND	1,100	ND	370	
108-88-3	Toluene	28,000	570	7,400	150	
120-82-1	1,2,4-Trichlorobenzene	ND	1,200	ND	160	
71-55-6	1,1,1-Trichloroethane	76,000	570	14,000	100	
79-00-5	1,1,2-Trichloroethane	ND	570	ND	100	
79-01-6	Trichloroethene	75,000	570	14,000	110	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	570	ND	100	
76-13-1	Trichlorotrifluoroethane (CFC 113)	8,900	590	1,200	77	
95-63-6	1,2,4-Trimethylbenzene	ND	570	ND	120	
108-67-8	1,3,5-Trimethylbenzene	ND	570	ND	120	
108-05-4	Vinyl Acetate	ND	5,400	ND	1,500	
75-01-4	Vinyl Chloride	ND	570	ND	220	
179601-23-1	m,p-Xylenes	13,000	1,200	3,100	280	
95-47-6	o-Xylene	4,300	570	990	130	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01098

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): 0.46 Final Pressure (psig): 5.43

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	1,400	ND	580	
75-05-8	Acetonitrile	ND	270	ND	160	
107-02-8	Acrolein	ND	270	ND	120	
107-13-1	Acrylonitrile	ND	270	ND	120	
71-43-2	Benzene	ND	130	ND	42	
100-44-7	Benzyl Chloride	ND	290	ND	57	
75-27-4	Bromodichloromethane	ND	140	ND	21	
75-25-2	Bromoform	ND	140	ND	13	
74-83-9	Bromomethane	ND	140	ND	35	
106-99-0	1,3-Butadiene	ND	140	ND	63	
123-86-4	n-Butyl Acetate	ND	290	ND	62	
75-15-0	Carbon Disulfide	ND	290	ND	94	
56-23-5	Carbon Tetrachloride	ND	130	ND	21	
108-90-7	Chlorobenzene	ND	140	ND	30	
75-00-3	Chloroethane	14,000	140	5,100	51	
67-66-3	Chloroform	170	140	35	29	
74-87-3	Chloromethane	ND	140	ND	66	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	140	ND	45	
98-82-8	Cumene	ND	140	ND	28	
110-82-7	Cyclohexane	ND	290	ND	85	
124-48-1	Dibromochloromethane	ND	140	ND	17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	270	ND	28	
106-93-4	1,2-Dibromoethane	ND	140	ND	18	
95-50-1	1,2-Dichlorobenzene	ND	140	ND	23	
541-73-1	1,3-Dichlorobenzene	ND	140	ND	23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01098

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): 0.46 Final Pressure (psig): 5.43

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	140	ND	23	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	140	ND	29	
75-34-3	1,1-Dichloroethane	13,000	140	3,300	35	
107-06-2	1,2-Dichloroethane	ND	140	ND	35	
75-35-4	1,1-Dichloroethene	950	140	240	36	
156-59-2	cis-1,2-Dichloroethene	24,000	140	6,000	35	
156-60-5	trans-1,2-Dichloroethene	ND	140	ND	36	
78-87-5	1,2-Dichloropropane	190	130	41	29	
10061-01-5	cis-1,3-Dichloropropene	ND	130	ND	29	
10061-02-6	trans-1,3-Dichloropropene	ND	140	ND	30	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	140	ND	21	
123-91-1	1,4-Dioxane	ND	140	ND	38	
64-17-5	Ethanol	ND	1,300	ND	710	
141-78-6	Ethyl Acetate	ND	560	ND	160	
100-41-4	Ethylbenzene	ND	140	ND	32	
622-96-8	4-Ethyltoluene	ND	140	ND	29	
142-82-5	n-Heptane	ND	140	ND	34	
87-68-3	Hexachlorobutadiene	ND	140	ND	13	
110-54-3	n-Hexane	ND	140	ND	40	
591-78-6	2-Hexanone	ND	290	ND	71	
5989-27-5	d-Limonene	ND	130	ND	24	
78-93-3	2-Butanone (MEK)	ND	270	ND	90	
80-62-6	Methyl Methacrylate	ND	290	ND	71	
1634-04-4	Methyl tert-Butyl Ether	ND	140	ND	39	
75-09-2	Methylene Chloride	ND	140	ND	40	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-5 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01098

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0050 Liter(s)
 0.0010 Liter(s)

Initial Pressure (psig): 0.46 Final Pressure (psig): 5.43

Container Dilution Factor: 1.33

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	290	ND	71	
91-20-3	Naphthalene	ND	140	ND	26	
111-84-2	n-Nonane	ND	140	ND	26	
111-65-9	n-Octane	ND	140	ND	30	
80-56-8	alpha-Pinene	ND	140	ND	26	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	270	ND	110	
115-07-1	Propene	ND	140	ND	80	
103-65-1	n-Propylbenzene	ND	140	ND	29	
100-42-5	Styrene	ND	130	ND	31	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	ND	20	
127-18-4	Tetrachloroethene	62,000	690	9,100	100	D
109-99-9	Tetrahydrofuran (THF)	ND	270	ND	90	
108-88-3	Toluene	220	140	57	37	
120-82-1	1,2,4-Trichlorobenzene	ND	290	ND	39	
71-55-6	1,1,1-Trichloroethane	87,000	690	16,000	130	D
79-00-5	1,1,2-Trichloroethane	250	140	46	25	
79-01-6	Trichloroethene	53,000	690	9,900	130	D
75-69-4	Trichlorofluoromethane (CFC 11)	ND	140	ND	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	17,000	140	2,200	19	
95-63-6	1,2,4-Trimethylbenzene	ND	140	ND	28	
108-67-8	1,3,5-Trimethylbenzene	ND	140	ND	28	
108-05-4	Vinyl Acetate	ND	1,300	ND	380	
75-01-4	Vinyl Chloride	570	140	220	54	
179601-23-1	m,p-Xylenes	ND	290	ND	67	
95-47-6	o-Xylene	ND	140	ND	32	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01225

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 5.11

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
67-64-1	Acetone	ND	1,800	ND	740	
75-05-8	Acetonitrile	ND	340	ND	200	
107-02-8	Acrolein	ND	340	ND	150	
107-13-1	Acrylonitrile	ND	340	ND	160	
71-43-2	Benzene	ND	170	ND	53	
100-44-7	Benzyl Chloride	ND	370	ND	72	
75-27-4	Bromodichloromethane	ND	180	ND	27	
75-25-2	Bromoform	ND	180	ND	17	
74-83-9	Bromomethane	ND	170	ND	45	
106-99-0	1,3-Butadiene	ND	180	ND	80	
123-86-4	n-Butyl Acetate	ND	370	ND	79	
75-15-0	Carbon Disulfide	ND	370	ND	120	
56-23-5	Carbon Tetrachloride	ND	170	ND	27	
108-90-7	Chlorobenzene	ND	180	ND	38	
75-00-3	Chloroethane	ND	170	ND	66	
67-66-3	Chloroform	ND	180	ND	38	
74-87-3	Chloromethane	ND	170	ND	84	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	180	ND	58	
98-82-8	Cumene	ND	180	ND	36	
110-82-7	Cyclohexane	ND	370	ND	110	
124-48-1	Dibromochloromethane	ND	180	ND	21	
96-12-8	1,2-Dibromo-3-chloropropane	ND	340	ND	35	
106-93-4	1,2-Dibromoethane	ND	180	ND	23	
95-50-1	1,2-Dichlorobenzene	ND	180	ND	30	
541-73-1	1,3-Dichlorobenzene	ND	180	ND	29	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01225

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 5.11

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	180	ND	29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	180	ND	36	
75-34-3	1,1-Dichloroethane	ND	180	ND	45	
107-06-2	1,2-Dichloroethane	ND	180	ND	45	
75-35-4	1,1-Dichloroethene	220	180	55	46	
156-59-2	cis-1,2-Dichloroethene	550	180	140	45	
156-60-5	trans-1,2-Dichloroethene	ND	180	ND	45	
78-87-5	1,2-Dichloropropane	ND	170	ND	37	
10061-01-5	cis-1,3-Dichloropropene	ND	170	ND	37	
10061-02-6	trans-1,3-Dichloropropene	ND	170	ND	38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	180	ND	26	
123-91-1	1,4-Dioxane	ND	180	ND	49	
64-17-5	Ethanol	ND	1,700	ND	900	
141-78-6	Ethyl Acetate	ND	710	ND	200	
100-41-4	Ethylbenzene	ND	180	ND	41	
622-96-8	4-Ethyltoluene	ND	180	ND	37	
142-82-5	n-Heptane	ND	180	ND	44	
87-68-3	Hexachlorobutadiene	ND	180	ND	17	
110-54-3	n-Hexane	ND	180	ND	51	
591-78-6	2-Hexanone	ND	370	ND	91	
5989-27-5	d-Limonene	ND	170	ND	31	
78-93-3	2-Butanone (MEK)	ND	340	ND	120	
80-62-6	Methyl Methacrylate	ND	370	ND	91	
1634-04-4	Methyl tert-Butyl Ether	ND	180	ND	50	
75-09-2	Methylene Chloride	ND	180	ND	51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: SVE-6 EXH
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P2106107-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:
 Container ID: 1SC01225

Date Collected: 11/15/21
 Date Received: 11/19/21
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.0040 Liter(s)

Initial Pressure (psig): -0.10 Final Pressure (psig): 5.11

Container Dilution Factor: 1.36

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	370	ND	91	
91-20-3	Naphthalene	ND	180	ND	34	
111-84-2	n-Nonane	ND	180	ND	34	
111-65-9	n-Octane	ND	180	ND	39	
80-56-8	alpha-Pinene	ND	180	ND	33	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	340	ND	140	
115-07-1	Propene	ND	180	ND	100	
103-65-1	n-Propylbenzene	ND	180	ND	37	
100-42-5	Styrene	ND	170	ND	40	
79-34-5	1,1,2,2-Tetrachloroethane	ND	180	ND	26	
127-18-4	Tetrachloroethene	31,000	180	4,500	26	
109-99-9	Tetrahydrofuran (THF)	ND	340	ND	120	
108-88-3	Toluene	ND	180	ND	47	
120-82-1	1,2,4-Trichlorobenzene	ND	370	ND	50	
71-55-6	1,1,1-Trichloroethane	5,000	180	910	32	
79-00-5	1,1,2-Trichloroethane	ND	180	ND	32	
79-01-6	Trichloroethene	7,200	180	1,300	33	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	180	ND	31	
76-13-1	Trichlorotrifluoroethane (CFC 113)	200	180	26	24	
95-63-6	1,2,4-Trimethylbenzene	ND	180	ND	36	
108-67-8	1,3,5-Trimethylbenzene	220	180	45	36	
108-05-4	Vinyl Acetate	ND	1,700	ND	480	
75-01-4	Vinyl Chloride	ND	180	ND	69	
179601-23-1	m,p-Xylenes	ND	370	ND	86	
95-47-6	o-Xylene	ND	180	ND	41	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
67-64-1	Acetone	ND	5.2	ND	2.2	
75-05-8	Acetonitrile	ND	1.0	ND	0.60	
107-02-8	Acrolein	ND	1.0	ND	0.44	
107-13-1	Acrylonitrile	ND	1.0	ND	0.46	
71-43-2	Benzene	ND	0.50	ND	0.16	
100-44-7	Benzyl Chloride	ND	1.1	ND	0.21	
75-27-4	Bromodichloromethane	ND	0.53	ND	0.079	
75-25-2	Bromoform	ND	0.52	ND	0.050	
74-83-9	Bromomethane	ND	0.51	ND	0.13	
106-99-0	1,3-Butadiene	ND	0.52	ND	0.24	
123-86-4	n-Butyl Acetate	ND	1.1	ND	0.23	
75-15-0	Carbon Disulfide	ND	1.1	ND	0.35	
56-23-5	Carbon Tetrachloride	ND	0.50	ND	0.080	
108-90-7	Chlorobenzene	ND	0.52	ND	0.11	
75-00-3	Chloroethane	ND	0.51	ND	0.19	
67-66-3	Chloroform	ND	0.54	ND	0.11	
74-87-3	Chloromethane	ND	0.51	ND	0.25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.53	ND	0.17	
98-82-8	Cumene	ND	0.52	ND	0.11	
110-82-7	Cyclohexane	ND	1.1	ND	0.32	
124-48-1	Dibromochloromethane	ND	0.53	ND	0.062	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.10	
106-93-4	1,2-Dibromoethane	ND	0.52	ND	0.068	
95-50-1	1,2-Dichlorobenzene	ND	0.53	ND	0.088	
541-73-1	1,3-Dichlorobenzene	ND	0.52	ND	0.087	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.52	ND	0.087	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.53	ND	0.11	
75-34-3	1,1-Dichloroethane	ND	0.53	ND	0.13	
107-06-2	1,2-Dichloroethane	ND	0.53	ND	0.13	
75-35-4	1,1-Dichloroethene	ND	0.54	ND	0.14	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	ND	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	ND	0.13	
78-87-5	1,2-Dichloropropane	ND	0.50	ND	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	0.51	ND	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.54	ND	0.077	
123-91-1	1,4-Dioxane	ND	0.52	ND	0.14	
64-17-5	Ethanol	ND	5.0	ND	2.7	
141-78-6	Ethyl Acetate	ND	2.1	ND	0.58	
100-41-4	Ethylbenzene	ND	0.52	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.53	ND	0.11	
142-82-5	n-Heptane	ND	0.53	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.52	ND	0.049	
110-54-3	n-Hexane	ND	0.53	ND	0.15	
591-78-6	2-Hexanone	ND	1.1	ND	0.27	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
80-62-6	Methyl Methacrylate	ND	1.1	ND	0.27	
1634-04-4	Methyl tert-Butyl Ether	ND	0.53	ND	0.15	
75-09-2	Methylene Chloride	ND	0.52	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Method Blank
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
108-10-1	4-Methyl-2-pentanone	ND	1.1	ND	0.27	
91-20-3	Naphthalene	ND	0.52	ND	0.099	
111-84-2	n-Nonane	ND	0.52	ND	0.099	
111-65-9	n-Octane	ND	0.53	ND	0.11	
80-56-8	alpha-Pinene	ND	0.54	ND	0.097	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	1.0	ND	0.41	
115-07-1	Propene	ND	0.52	ND	0.30	
103-65-1	n-Propylbenzene	ND	0.53	ND	0.11	
100-42-5	Styrene	ND	0.50	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	ND	0.076	
127-18-4	Tetrachloroethene	ND	0.52	ND	0.077	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.34	
108-88-3	Toluene	ND	0.52	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	ND	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.52	ND	0.095	
79-00-5	1,1,2-Trichloroethane	ND	0.52	ND	0.095	
79-01-6	Trichloroethene	ND	0.52	ND	0.097	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.52	ND	0.093	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.54	ND	0.070	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	ND	0.11	
108-67-8	1,3,5-Trimethylbenzene	ND	0.52	ND	0.11	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
75-01-4	Vinyl Chloride	ND	0.52	ND	0.20	
179601-23-1	m,p-Xylenes	ND	1.1	ND	0.25	
95-47-6	o-Xylene	ND	0.52	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Gannett Fleming, Incorporated
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 11/15/21
 Date(s) Received: 11/19/21
 Date(s) Analyzed: 11/29/21

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P211129-MB	96	104	105	70-130	
Lab Control Sample	P211129-LCS	94	99	105	70-130	
Duplicate Lab Control Sample	P211129-DLCS	100	93	98	70-130	
MAIN SVE EXH	P2106107-001	96	102	108	70-130	
SVE-5 EXH	P2106107-002	95	100	103	70-130	
SVE-6 EXH	P2106107-003	98	100	104	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
67-64-1	Acetone	1,020	952	1020	93	100	60-117	7	25	
75-05-8	Acetonitrile	202	173	183	86	91	59-131	6	25	
107-02-8	Acrolein	416	423	437	102	105	71-123	3	25	
107-13-1	Acrylonitrile	402	414	433	103	108	65-130	5	25	
71-43-2	Benzene	208	190	198	91	95	72-113	4	25	
100-44-7	Benzyl Chloride	416	438	435	105	105	73-145	0	25	
75-27-4	Bromodichloromethane	208	200	212	96	102	74-119	6	25	
75-25-2	Bromoform	210	235	221	112	105	65-149	6	25	
74-83-9	Bromomethane	206	196	196	95	95	71-112	0	25	
106-99-0	1,3-Butadiene	206	195	216	95	105	63-135	10	25	
123-86-4	n-Butyl Acetate	406	496	511	122	126	75-134	3	25	
75-15-0	Carbon Disulfide	414	369	387	89	93	70-113	4	25	
56-23-5	Carbon Tetrachloride	202	188	196	93	97	67-123	4	25	
108-90-7	Chlorobenzene	206	207	201	100	98	70-118	2	25	
75-00-3	Chloroethane	206	196	198	95	96	66-117	1	25	
67-66-3	Chloroform	210	192	205	91	98	71-114	7	25	
74-87-3	Chloromethane	206	196	210	95	102	53-126	7	25	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	204	186	199	91	98	57-127	7	25	
98-82-8	Cumene	206	215	209	104	101	69-125	3	25	
110-82-7	Cyclohexane	412	396	417	96	101	70-119	5	25	
124-48-1	Dibromochloromethane	210	221	210	105	100	69-137	5	25	
96-12-8	1,2-Dibromo-3-chloropropane	404	455	444	113	110	72-145	3	25	
106-93-4	1,2-Dibromoethane	208	219	210	105	101	76-128	4	25	
95-50-1	1,2-Dichlorobenzene	210	228	226	109	108	64-139	0.9	25	
541-73-1	1,3-Dichlorobenzene	208	230	227	111	109	67-136	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m ³	LCS µg/m ³	DLCS µg/m ³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
106-46-7	1,4-Dichlorobenzene	210	216	210	103	100	63-134	3	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	208	173	175	83	84	71-112	1	25	
75-34-3	1,1-Dichloroethane	214	198	207	93	97	70-114	4	25	
107-06-2	1,2-Dichloroethane	210	191	204	91	97	71-119	6	25	
75-35-4	1,1-Dichloroethene	210	201	206	96	98	74-114	2	25	
156-59-2	cis-1,2-Dichloroethene	206	200	209	97	101	73-117	4	25	
156-60-5	trans-1,2-Dichloroethene	208	206	215	99	103	76-119	4	25	
78-87-5	1,2-Dichloropropane	206	197	207	96	100	70-118	4	25	
10061-01-5	cis-1,3-Dichloropropene	208	217	228	104	110	81-126	6	25	
10061-02-6	trans-1,3-Dichloropropene	200	206	217	103	109	80-127	6	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	208	204	208	98	100	62-121	2	25	
123-91-1	1,4-Dioxane	206	210	220	102	107	77-124	5	25	
64-17-5	Ethanol	832	810	879	97	106	57-117	9	25	
141-78-6	Ethyl Acetate	580	572	644	99	111	59-161	11	25	
100-41-4	Ethylbenzene	206	211	204	102	99	71-123	3	25	
622-96-8	4-Ethyltoluene	208	226	221	109	106	69-127	3	25	
142-82-5	n-Heptane	206	203	214	99	104	70-119	5	25	
87-68-3	Hexachlorobutadiene	212	236	226	111	107	55-142	4	25	
110-54-3	n-Hexane	208	201	223	97	107	55-130	10	25	
591-78-6	2-Hexanone	406	473	489	117	120	74-132	3	25	
5989-27-5	d-Limonene	206	246	248	119	120	63-137	0.8	25	
78-93-3	2-Butanone (MEK)	408	410	429	100	105	74-121	5	25	
80-62-6	Methyl Methacrylate	410	431	448	105	109	78-126	4	25	
1634-04-4	Methyl tert-Butyl Ether	206	204	212	99	103	72-118	4	25	
75-09-2	Methylene Chloride	208	188	193	90	93	75-112	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Gannett Fleming, Incorporated
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: WRR - Eau Claire, WI - 55929.005 / 55929.005

ALS Project ID: P2106107
 ALS Sample ID: P211129-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 11/29/21
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount		Result		% Recovery		ALS		Data Qualifier
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits	RPD	RPD Limit	
108-10-1	4-Methyl-2-pentanone	412	442	477	107	116	73-129	8	25	
91-20-3	Naphthalene	210	227	223	108	106	62-156	2	25	
111-84-2	n-Nonane	208	229	237	110	114	64-127	4	25	
111-65-9	n-Octane	208	219	217	105	104	68-120	1	25	
80-56-8	alpha-Pinene	210	226	220	108	105	68-129	3	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	400	418	441	105	110	61-124	5	25	
115-07-1	Propene	206	191	202	93	98	56-128	5	25	
103-65-1	n-Propylbenzene	208	212	209	102	100	70-127	2	25	
100-42-5	Styrene	202	219	212	108	105	76-132	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	208	218	215	105	103	69-128	2	25	
127-18-4	Tetrachloroethene	212	221	208	104	98	63-130	6	25	
109-99-9	Tetrahydrofuran (THF)	404	406	425	100	105	73-114	5	25	
108-88-3	Toluene	206	197	190	96	92	70-118	4	25	
120-82-1	1,2,4-Trichlorobenzene	420	495	494	118	118	62-154	0	25	
71-55-6	1,1,1-Trichloroethane	208	186	195	89	94	73-119	5	25	
79-00-5	1,1,2-Trichloroethane	208	195	203	94	98	78-117	4	25	
79-01-6	Trichloroethene	204	204	211	100	103	74-115	3	25	
75-69-4	Trichlorofluoromethane (CFC 11)	202	184	192	91	95	71-114	4	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	213	212	99	98	73-114	1	25	
95-63-6	1,2,4-Trimethylbenzene	206	238	241	116	117	63-142	0.9	25	
108-67-8	1,3,5-Trimethylbenzene	208	225	220	108	106	66-129	2	25	
108-05-4	Vinyl Acetate	942	956	995	101	106	56-137	5	25	
75-01-4	Vinyl Chloride	208	192	206	92	99	63-123	7	25	
179601-23-1	m,p-Xylenes	416	429	419	103	101	67-127	2	25	
95-47-6	o-Xylene	208	214	210	103	101	69-124	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

APPENDIX D

SUPPORTING DATA FOR EVALUATING GROUNDWATER MONITORING RESULTS

APPENDIX D

SUPPORTING DATA FOR EVALUATING GROUNDWATER MONITORING RESULTS

APPENDIX D-1

**FIGURES SHOWING GROUNDWATER CONTOURS AND ESTIMATED EXTENT OF
VOCS IN SHALLOW, MID-DEPTH, AND DEEP/BEDROCK AQUIFERS**

DRAWINGS

No. Description

Dwg-1 Cross Section A-A' with Estimated Vertical Extent of VOC Plumes (October 2021)

FIGURES

No. Description

- D-1 Shallow Aquifer Groundwater Surface Contour Map with Recovery Wells Operating (June 2021)
- D-2 Shallow Aquifer Groundwater Surface Contour Map (June 2021)
- D-3 Mid-Depth Aquifer Groundwater Surface Contour Map (June 2021)
- D-4 Deep/Bedrock Aquifer Groundwater Surface Contour Map (June 2021)
- D-5 Estimated Extent of CVOCs in Shallow Aquifer on Site (October 2021)
- D-6 Estimated Extent of Chlorinated VOCs in Shallow Aquifer (October 2021)
- D-7 Estimated Extent of Chlorinated VOCs in Mid-Depth Aquifer (October 2021)
- D-8 Estimated Extent of Chlorinated VOCs in Deep/Bedrock Aquifer (October 2021)
- D-9 Estimated Extent of Alcohols and Ketones in Shallow Aquifer on Site (October 2021)
- D-10 Estimated Extent of Alcohols and Ketones in Mid-Depth Aquifer (October 2021)
- D-11 Estimated Extent of Alcohols and Ketones in Deep/Bedrock Aquifer (October 2021)
- D-12 Estimated Extent of Petroleum-Related Compounds in Shallow Aquifer (October 2021)
- D-13 Estimated Extent of Petroleum-Related Compounds in Mid-Depth Aquifer (October 2021)
- D-14 Estimated Extent of Petroleum-Related Compounds in Deep/Bedrock Aquifer (October 2021)
- D-15 1,4-Dioxane Sample Locations and Concentrations (June & October 2021)

APPENDIX D-2

**TABLES WITH ANALYTICAL RESULTS OF GROUNDWATER SAMPLES COLLECTED
MAY THROUGH OCTOBER 2021**

<u>No.</u>	<u>Description</u>
D-1	Groundwater Sampling Schedule
D-2	Groundwater Elevations (May 2020 – October 2021)
D-3	Measured Vertical Gradients (June & October 2021)
D-4a-g	Summary of Detected Compounds in [W-32, W-33, W-34, SVE-4, SVE-5, SVE-6 & SVE-7] (May 2017 – October 2021)
D-5	Summary of Detected Compounds in W-35 (October 2018 – June 2021)
D-6	1,4-Dioxane Concentrations Measured in Groundwater (June and October 2021)
D-7	Groundwater DNA Analysis Summary
D-8	Evaluation of Reductive Dechlorination Status in W-32 through W-35 and SVE-4 through SVE-7

WRR's Master VOC Table (May 2011 – October 2021)

APPENDIX D-3

**LABORATORY REPORTS FOR GROUNDWATER SAMPLES COLLECTED FROM
MONITORING WELLS (JUNE – OCTOBER 2021)**

APPENDIX D-4

**CHARTS SHOWING CVOC CONCENTRATIONS VS TIME IN WELLS
W-32 THROUGH W-35 & SVE-4**

D1.0 GROUNDWATER SAMPLING (MAY THROUGH OCTOBER 2021)

Groundwater and surface water samples were collected during this reporting period on the following dates:

- On May 18, 2021, samples were collected for VOC analysis from MW-112/A/B, MW-113/A/B, MW-115/A/B, W-30A&B, and WRR's drinking water well, DW-1.
- From June 1st through 3rd, groundwater samples were collected from all other wells listed in Table D-1 that were not sampled in May 2021. Surface water samples were also collected from Seeps 2N and 7N and from turbostripper influent and reservoir effluent. All samples were collected for VOC analyses. Samples from W-32 through W-35, SVE-7 and the Turbostripper influent were also collected for analysis of 1,4-dioxane. RNA field parameters measured in W-32 through W-35 included DO, ORP, pH, temperature, and conductivity. Additional RNA samples were collected from select wells for laboratory analyses of methane, ethane, and ethene (MEE), dissolved iron and manganese, alkalinity, sulfate, nitrate, and/or total organic carbon (TOC). These samples were collected to evaluate the effects of the injection of reducing reagents conducted in the northern and southeastern portions of the facility from July 2018 through October 2020.
- On October 7th and 8th, samples were collected for VOC analyses from wells listed in Table D-1 that are part of the semi-annual sampling program. Additional samples were collected from W-32 through W-35, SVE-5, and SVE-7 for RNA field and lab parameters and from SVE-5 and SVE-7 for analyses of DHC and DHBt microbes. Additional samples were collected from SVE-5, W-6, W-19R, and TW-1 for analyses of 1,4-dioxane.
- The depth to groundwater was also measured in each well prior to collecting the samples in May, June, and October.

Groundwater samples collected in May and June 2021 for VOC analyses were submitted to ALS Environmental of Holland, Michigan using Method 8260. All samples collected in October 2021 for VOC analyses were submitted to Pace Laboratory of Green Bay, Wisconsin. All samples collected for 1,4-dioxane and RNA lab parameters were analyzed by ALS using methods listed on the laboratory reports included in Appendix D-3. Samples collected in October for DHC and DHBt analyses were submitted to Microbial Insights of Knoxville, Tennessee.

D2.0 SEMI-ANNUAL GROUNDWATER MONITORING RESULTS

D2.1 Groundwater Flow Direction & Vertical Gradients

Table D-2 provides groundwater elevations based on depth-to-water measurements recorded in May, June, and October 2021. Figure D-1 shows the groundwater surface contours measured in site wells in June 2021 with the recovery wells operating. As shown on Figure D-1, there is a pronounced mounding effect caused by the discharge of treated water from the aerated reservoir to the absorption pond located off the southwest corner of the WRR facility. That mounding effect combined with the pumping of groundwater from the on-site recovery and production wells creates a relatively steep downward vertical gradient on site. As shown on Figure D-1, the mounding associated with the absorption pond and the pumping of groundwater by the recovery wells also creates a “trough” of relatively low groundwater elevations that runs southeast to northwest across the middle of the site. The combined effect of the mound, trough, and groundwater recovery helps keep VOCs in the shallow aquifer from migrating off site, as discussed in Section D3. The groundwater flow direction in the off-site portion of the shallow aquifer, as well as the mid-depth and deep aquifers, is to the west toward Lowes Creek, as shown on Figures D-2, D-3, and D-4, respectively. The June 2021 groundwater flow directions measured in the shallow, mid-depth and deep/bedrock aquifers are consistent with previously measured flow directions.

Table D-3 summarizes the estimated vertical gradients within each of the on- and off-site well nests based on elevations measured in June and October 2021. During the reporting period, vertical gradients ranged from 0.05 to 0.55 downward in on-site well nests W-1/A/D, W-2/B/A, W-3/B/A, W-7/A, and W-31A/B. Vertical gradients ranging from 0.08 to 0.83 downward were measured in off-site well nests W-17/-17A/-17B, W-18/-18A, MW-104/-104A, and MW-106/-106A. However, in both the on-site and off-site wells listed above, the predominant direction of the vertical gradient was downward. See Table D-3 for the vertical gradients measured in each well nest on each date.

The vertical gradients measured during this reporting period in off-site well nests closest to Lowes Creek were upward and ranged from 0.01 to 0.09 in MW-111/A/B and 0.0024 to 0.0218 in MW-113/A/B. The upward vertical gradients measured in the MW-111 and MW-113 well nests are consistent with previous measurements and indicate that the regional groundwater is discharging to Lowes Creek.

D2.2 Groundwater Analytical Results

The analytical results of groundwater samples collected for VOCs, except 1,4-dioxane, are summarized in the Master VOC Table included in Appendix D-2. Tables D-4 and D-5 include a summary of the VOCs detected in wells W-32 through W-35 and SVE-4 through SVE-7 and the results of RNA parameters measured in the field and laboratory. Table D-6 presents the analytical results of samples collected for 1,4-dioxane analysis. Table D-7 presents the analytical results of samples collected in 2021 from SVE-5 and SVE-7 for microbial analysis and includes all previous

results for other wells sampled for microbes. The laboratory reports for groundwater samples collected in 2021 are included in Appendix D-3.

With minor exceptions, VOC concentrations in the on- and off-site groundwater are decreasing, as are the sizes of the CVOC, alcohol and ketones, and PRC plumes. See the Master VOC Table in Appendix D-2 for historical concentrations of individual VOCs measured in each well. The estimated extent of VOCs and 1,4-dioxane in the groundwater in the shallow, mid-depth, and deep/bedrock aquifers is discussed below.

D3.0 ESTIMATED EXTENT OF DISSOLVED-PHASE CONTAMINATION

Figures showing the estimated extent of CVOCs, alcohol and ketones, and PRC in the shallow, mid-depth and deep aquifers are included in Appendix D-1. Based on historical and current groundwater elevations, VOC concentrations, and vertical gradients measured in the MW-111 and MW-113 well nests east and west of Lowes Creek, GF believes that VOCs migrating off site from WRR discharge to Lowes Creek, as discussed in the Conceptual Site Model section of GF's June 2014 *Evaluation of Corrective Measures and Plan of Activities* report. Drawing D-1/cross section A-A' included with this report shows the estimated vertical extent of the three dissolved-phase VOC plumes in the shallow, mid-depth, and deep/bedrock aquifers in October 2021. Cross-section A-A' runs from well W-4 in the southeastern corner of the WRR property due west along the predominant groundwater flow direction to the creek and ends at the MW-113/A/B well nest located approximately 525 feet west of Lowes Creek (2,800 feet west of WRR). Additional discussion about the estimated extent of CVOCs, alcohol and ketones, PRC, and 1,4-dioxane in the groundwater follows.

D3.1 Estimated Extent of CVOCs in Groundwater

Figure D-5 shows the estimated extent of CVOCs measured at concentrations greater than their NR 140 ESs in the shallow groundwater samples collected on site in October 2021. Figures D-6 through D-8 show the estimated off-site extent of CVOCs in the shallow, mid-depth, and deep/bedrock aquifers, respectively. As shown on Figures D-5 and D-6, due to the mounding effect created by the discharge of treated water from the aeration reservoir to the absorption pond, the relatively high concentrations of CVOCs measured in the shallow aquifer on site do not extend off site. Additionally, CVOC concentrations in the groundwater:

- Were not measured above the NR 140 ES in samples collected from mid-depth wells W-19R and RW-6 approximately 150 to 200 feet west of the WRR facility. Groundwater samples collected from W-1A and W-1D in the southwestern corner of the WRR facility contained relatively low CVOC concentrations, with vinyl chloride being the only compound measured above its NR 140 ES at 0.65 and 0.70 micrograms per liter ($\mu\text{g}/\ell$), respectively, slightly above its NR 140 ES of 0.2 $\mu\text{g}/\ell$. These results indicate that the off-site migration of CVOCs in the mid-depth aquifer is likely being controlled by the operation of mid-depth recovery wells RW-12 and RW-13 and the other remedial activities on site. This has resulted in two CVOC plumes in the mid-depth aquifer, one onsite and one offsite. GF believes the on-site and off-site CVOC plumes in the mid-depth aquifer will continue to decrease in concentration and size with the continued operation of RW-10 through RW-13.
- Were measured at concentrations above their NR 140 ESs in downgradient deep/bedrock wells MW-111B, MW-115, MW-115A, and W-17A, as shown on Figure D-8 and Drawing D-1.
- Are likely discharging to Lowes Creek based on the upward vertical gradient measured in the MW-111 and MW-113 well nests located east and west of Lowes Creek, respectively, as shown on Drawing D-1.

D3.2 Estimated Extent of Alcohol and Ketones in Groundwater

Figures D-9, D-10, and D-11 show the estimated extent of alcohol and ketones at concentrations above their NR 140 ESs in the shallow, mid-depth, and deep aquifers, respectively, based on the analytical results measured in groundwater samples collected through October 2021. As shown on Figure D-9, the relatively high concentrations of isopropyl alcohol (IPA) and ketones measured in on-site wells screened in the shallow aquifer do not extend off site, likely due to the operation of RW-10 through RW-13 and the mounding of groundwater caused by the discharge of water to the absorption pond southwest of WRR. When operating, recovery well RW-6 is capturing most, if not all, of the ketones in the mid-depth aquifer downgradient of the WRR facility, keeping them from migrating further downgradient in the mid-depth aquifer, as shown on Figure D-10. Except for the 980 µg/ℓ of methyl-isobutyl-ketone (MIBK) detected in W-17A, no ketones or alcohol were measured at concentrations above their NR 140 ESs in groundwater samples collected from off-site wells screened in the deep/bedrock aquifer in October 2021, as shown on Figure D-11 and Drawing D-1.

D.3.3 Estimated Extent of Petroleum Related Compounds in Groundwater

Figures D-12, D-13, and D-14 show the estimated extent of PRCs at concentrations above their NR 140 ESs in the shallow, mid-depth, and deep aquifers, respectively, based on concentrations measured in groundwater samples collected in October 2021. Like the other suites of VOCs, the elevated concentrations of PRCs measured in wells screened in the shallow aquifer on site do not extend off site, likely because they are captured by the collective pumping of RW-10 and RW-11 and, to a lesser extent, mid-depth recovery wells RW-12 and RW-13 and the production well. In addition, the mounding effect that the discharge of treated water from the aerated reservoir creates under the southwestern portion of the site helps to keep the VOCs in the shallow aquifer from migrating off site. As with the IPA and ketone plume, GF believes that most, if not all, of the PRC plume in the mid-depth aquifer is being captured by RW-6, RW-12, and RW-13 and that the PRC plume in the mid-depth and deep aquifers offsite will decrease in concentration and size with their continued operation.

D3.4 Estimated Extent of 1,4-Dioxane in Groundwater

Figure D-15 shows the locations of the nine monitoring wells sampled in June and October 2021 for analysis of 1,4-dioxane. An additional sample was collected for 1,4-dioxane analysis from the influent of the Turbostripper and is representative of the water pumped from RW-6, RW-10, RW-12, and RW-13 on the date that the sample was collected.

As shown in Table D-6, 1,4-dioxane was measured above its NR 140 ES of 3 µg/ℓ in five of the ten samples collected in 2021 as summarized below and in Table D-8:

- W-33 at 180 µg/ℓ
- SVE-5 at 110 µg/ℓ
- TW-1 at 19 µg/ℓ
- W-19R at 15 µg/ℓ

- W-6 at 7.8 µg/ℓ

Figure D-15 shows the 1,4-dioxane concentrations measured in each well.

Except for W-19R, all groundwater samples collected for 1,4-dioxane analysis were collected from wells screened in the shallow aquifer. The presence of 1,4-dioxane in W-19R indicates that it has migrated into the mid-depth aquifer and off site. However, 1,4-dioxane was not detected in the Turbostripper influent, which was mostly comprised of groundwater pumped by mid-depth recovery wells RW-6, RW-12, and RW-13. Though the method detection limit (4.4 µg/ℓ) for the Turbostripper influent sample was above the NR 140 ES of 3 µg/ℓ for 1,4-dioxane, the absence of 1,4-dioxane in that sample indicates that it is likely not present at elevated concentrations over a widespread area within the mid-depth aquifer. Additional samples will be collected in 2022 to further define the horizontal and vertical extent of 1,4-dioxane in the groundwater.

D.4 EVALUATION OF REDUCTIVE DECHLORINATION STATUS

Charts showing CVOC concentrations versus time measured in wells W-32 through W-35 are provided in Appendix D-4. As shown on those charts and Tables D-4 and D-5, CVOC concentrations have decreased significantly since reducing reagents were initially injected into the groundwater in July 2018.

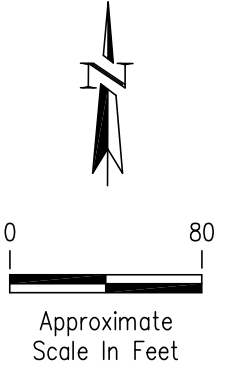
Table D-8 presents a scoresheet for evaluating the status of reductive dechlorination in wells W-32 through W-35 and SVE-4 through SVE-7 within or adjacent (W-33) to areas where reducing reagents have been injected into the groundwater. See Figure 4 in the main report for well locations. With the exceptions noted below, the analytical results of samples most recently collected for DNA and RNA field and laboratory analyses indicate that reductive dechlorination is occurring through the complete degradation of PCE, TCE, and TCA and their daughter products, as shown in Table D-8.

- Groundwater samples collected from W-32 and SVE-6, located west of Dock #6 in the northwestern portion of the facility, had a relatively low score and show only a limited amount of degradation is occurring. The area near W-32 and SVE-6 has received multiple injections of reducing reagents, most recently in November 2021 after the latest round of groundwater samples was collected, so it is possible that conditions may have improved since October 2021. GF believes that the relatively dense sediments west of Dock #6:
 - Are limiting the distribution of the reducing reagents when they are injected in that area.
 - Could be contributing to the back diffusion of residual VOCs, limiting the long-term effectiveness of local injections there.
- Well W-33 is located near the southwestern corner of Building E-II, about 120 feet from the nearest boring that received an injection of reducing reagents. Interestingly, W-33 has always had a relatively good (strong) RNA rating even though it is not located within an area where the groundwater has received injections. However, groundwater samples collected in March 2020 for microbial analysis indicate that the groundwater in W-33 contains only a moderate amount of the microbes that facilitate the degradation of PCE, TCE, TCA, and their daughter products. As a result, the degradation of CVOCs in W-33 is occurring at a relatively slow pace. GF believes that injections of reducing reagents into the groundwater near where W-33 is located are necessary to increase the microbial count and degradation of CVOCs in that area.
- Though there has been an overall decrease in CVOC concentrations in the groundwater, there have been temporary increases in CVOC concentrations due to seasonal fluctuations in water levels, which causes CVOCs in the soil within the capillary fringe of the water table to back/diffuse into the groundwater.

Additional samples will be collected in the spring of 2022 from the monitoring and SVE wells in the areas where injection activities have occurred to determine if and where additional injections are warranted to maintain or increase the reductive dechlorination rate of CVOCs.

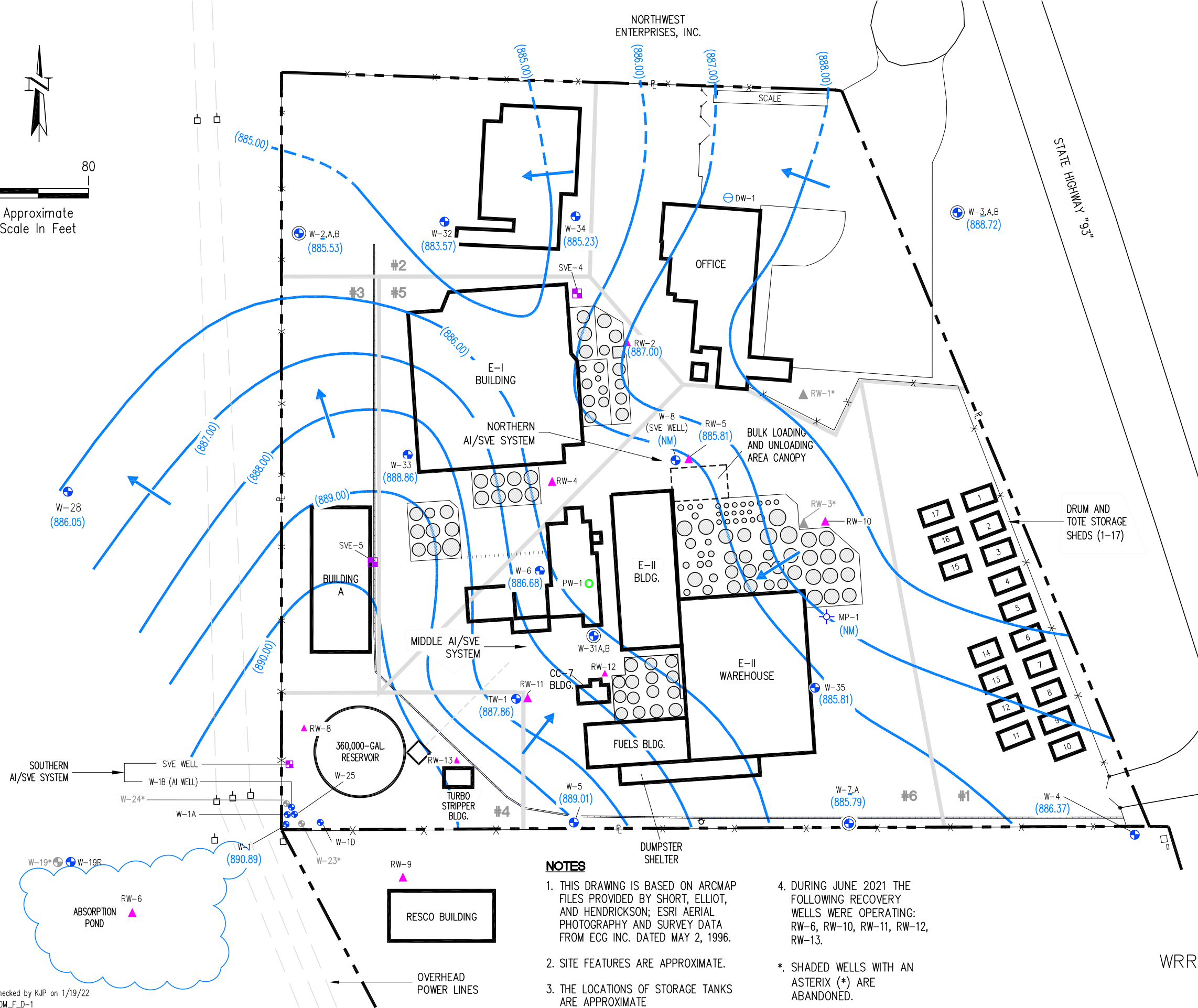
APPENDIX D-1

FIGURES SHOWING GROUNDWATER CONTOURS AND ESTIMATED EXTENT OF
VOCS IN SHALLOW, MID-DEPTH, AND DEEP/BEDROCK AQUIFERS



LEGEND

- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- MONITORING WELL
- MONITORING WELL NEST
- RECOVERY WELL
- PRODUCTION WELL
- DRINKING WATER WELL
- 1-INCH-DIAMETER MONITORING POINT
- ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
- POWER POLE
- LIGHT POLE
- FENCE
- SURFACE WATER DRAINAGE DITCH
- SOLID WASTE MANAGEMENT UNITS

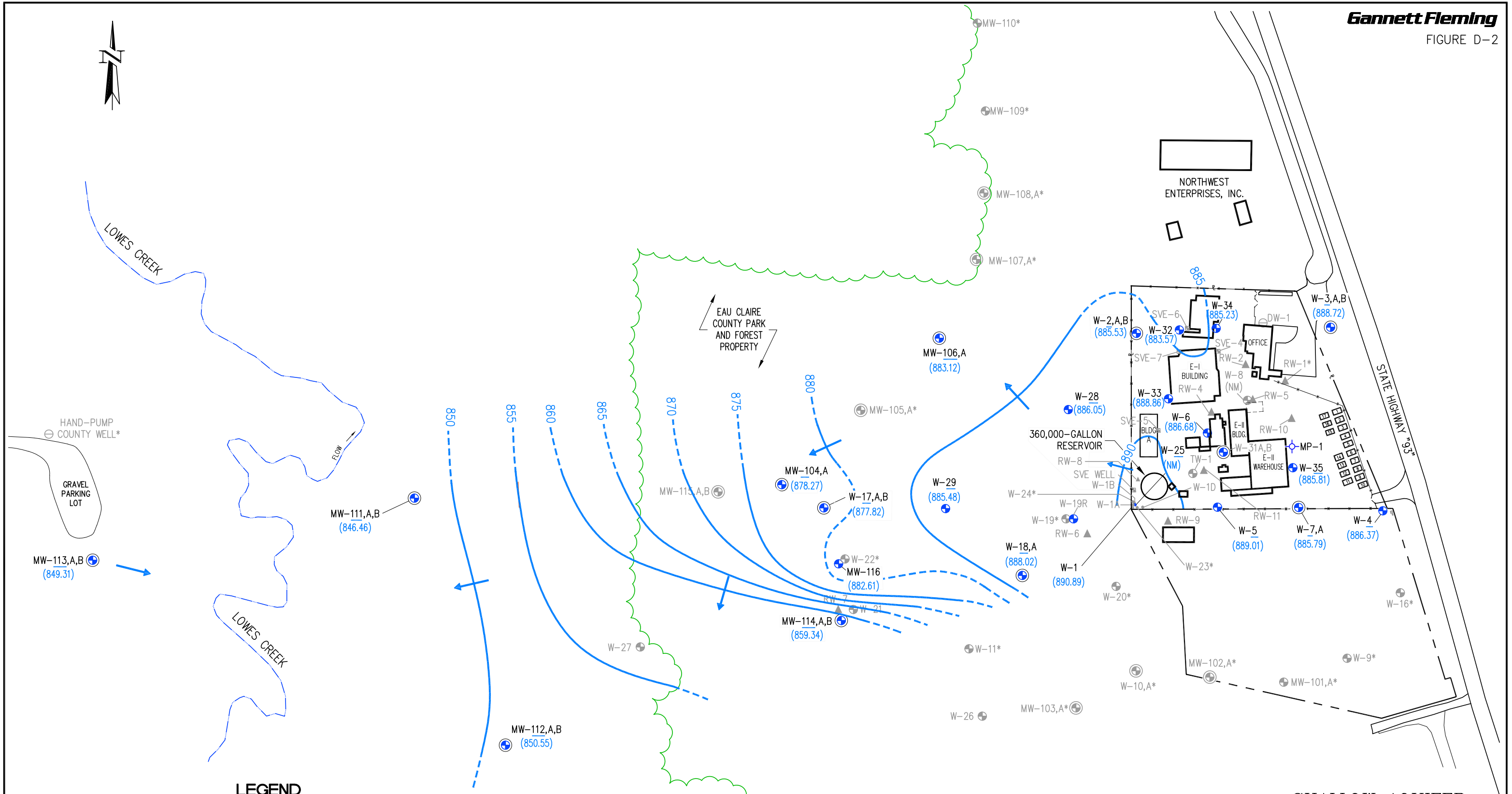


**SHALLOW AQUIFER
GROUNDWATER
SURFACE CONTOUR
MAP WITH RECOVERY
WELLS OPERATING
(JUNE 2021)**

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
 2. SITE FEATURES ARE APPROXIMATE.
 3. THE LOCATIONS OF STORAGE TANKS ARE APPROXIMATE
 4. DURING JUNE 2021 THE FOLLOWING RECOVERY WELLS WERE OPERATING: RW-6, RW-10, RW-11, RW-12, RW-13.
- * SHADED WELLS WITH AN ASTERIX (*) ARE ABANDONED.



LEGEND

- 870 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- ← GROUNDWATER FLOW DIRECTION
- (888.91) GROUNDWATER ELEVATION
- ⊕ MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- ⊖ DRINKING WATER WELL
- x— FENCE

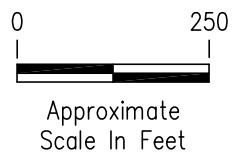
NOTES

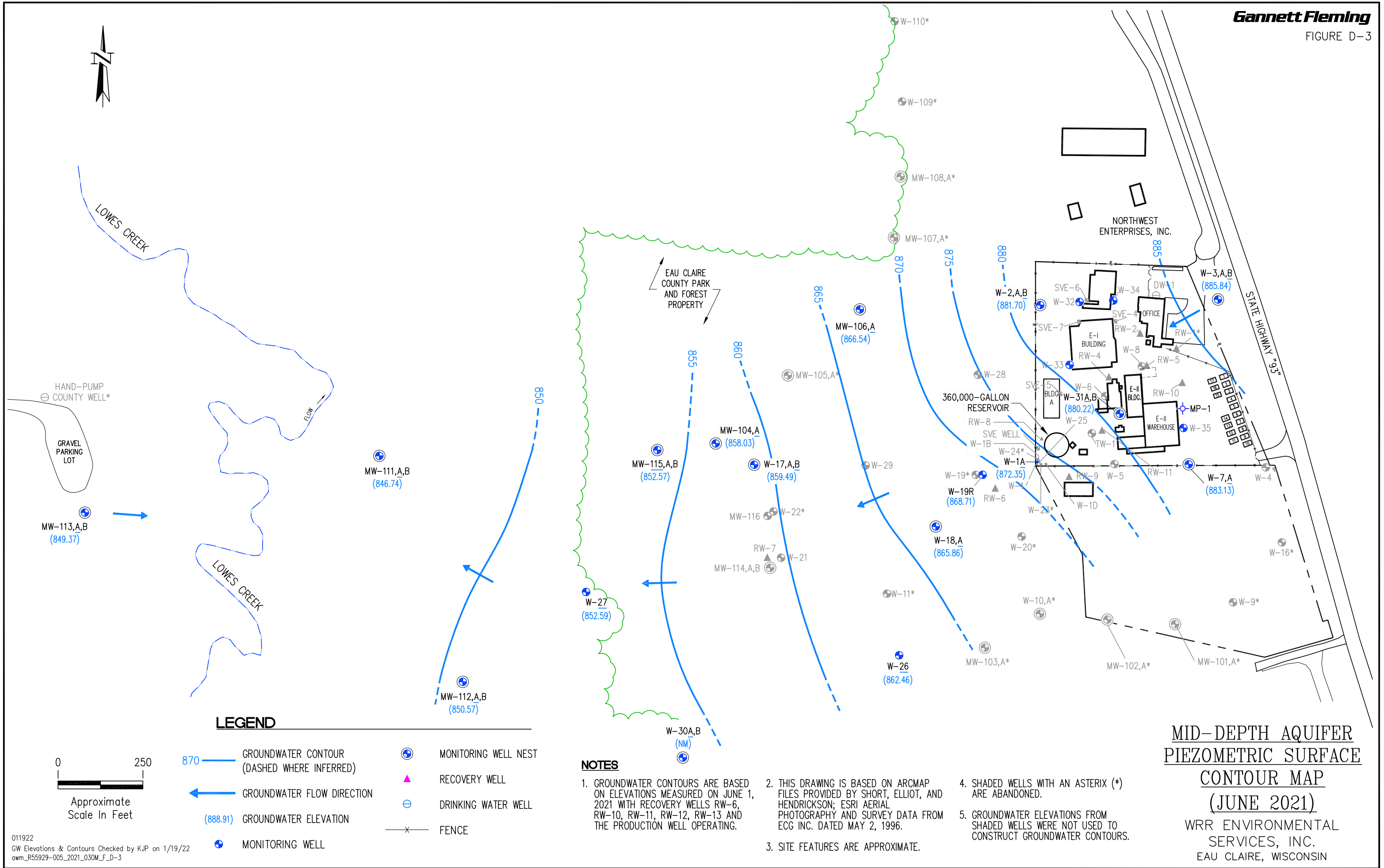
1. GROUNDWATER CONTOURS ARE BASED ON ELEVATIONS MEASURED ON JUNE 1, 2021 WITH RECOVERY WELLS RW-6, RW-10, RW-11, RW-12, RW-13 AND THE PRODUCTION WELL OPERATING.
2. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
3. SITE FEATURES ARE APPROXIMATE.
4. SHADED WELLS WITH AN ASTERISK (*) ARE ABANDONED.
5. GROUNDWATER ELEVATIONS FROM SHADED WELLS WERE NOT USED TO CONSTRUCT GROUNDWATER CONTOURS.

**SHALLOW AQUIFER
GROUNDWATER SURFACE
CONTOUR MAP**

(JUNE 2021)

WRR ENVIRONMENTAL
SERVICES, INC.
EAU CLAIRE, WISCONSIN





LEGEND

- 870 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- ← GROUNDWATER FLOW DIRECTION
- (888.91) GROUNDWATER ELEVATION
- ⊕ MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- ⊖ DRINKING WATER WELL
- x— FENCE

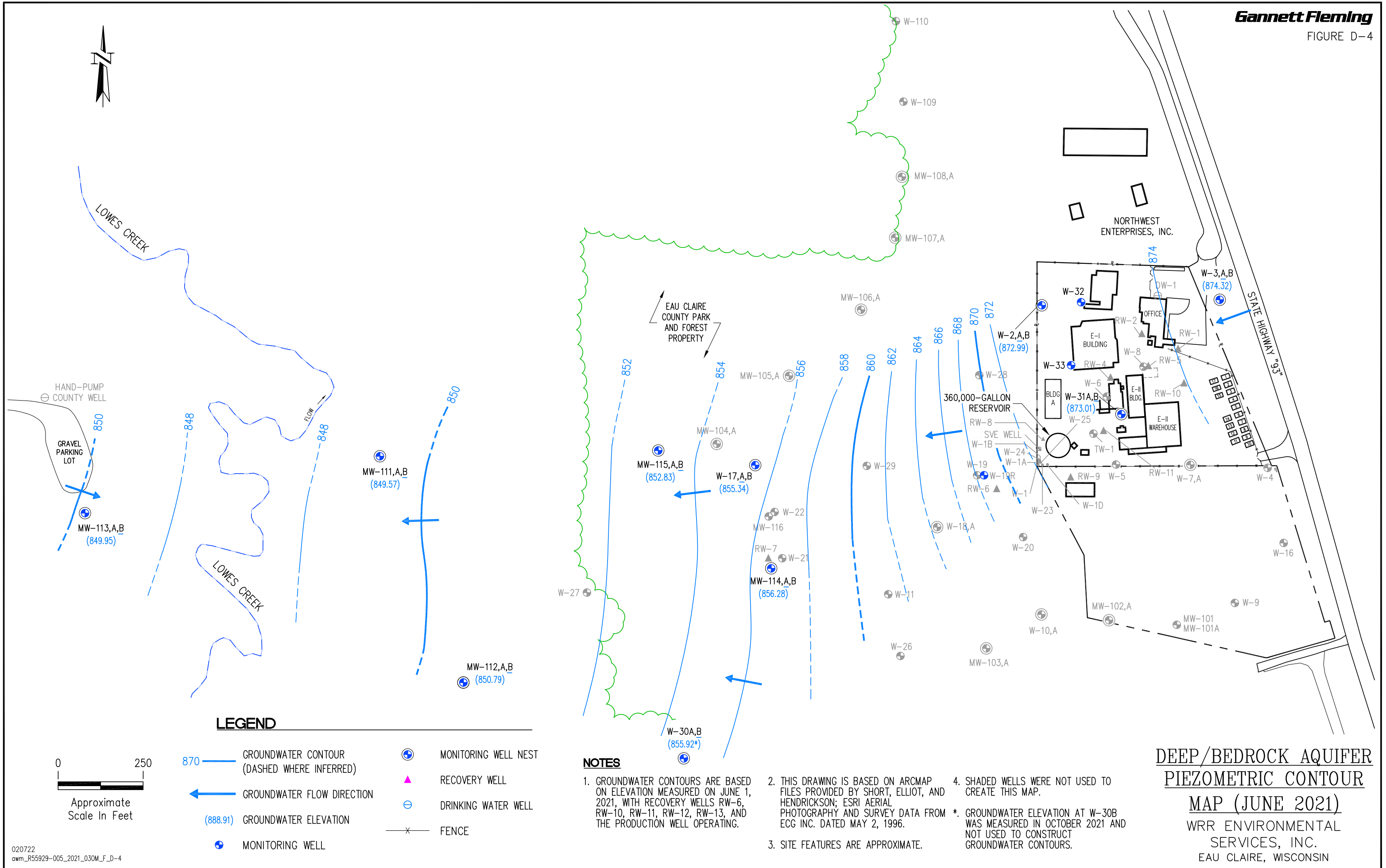
NOTES

1. GROUNDWATER CONTOURS ARE BASED ON ELEVATIONS MEASURED ON JUNE 1, 2021 WITH RECOVERY WELLS RW-6, RW-10, RW-11, RW-12, RW-13 AND THE PRODUCTION WELL OPERATING.
2. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
3. SITE FEATURES ARE APPROXIMATE.
4. SHADED WELLS WITH AN ASTERISK (*) ARE ABANDONED.
5. GROUNDWATER ELEVATIONS FROM SHADED WELLS WERE NOT USED TO CONSTRUCT GROUNDWATER CONTOURS.

**MID-DEPTH AQUIFER
PIEZOMETRIC SURFACE
CONTOUR MAP
(JUNE 2021)**

WRR ENVIRONMENTAL
SERVICES, INC.
EAU CLAIRE, WISCONSIN

011922
GW Elevations & Contours Checked by KJP on 1/19/22
awm_R55929-005_2021_030M_F_D-3



LEGEND

- 870 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- ← GROUNDWATER FLOW DIRECTION
- (888.91) GROUNDWATER ELEVATION
- ⊕ MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- ⊖ DRINKING WATER WELL
- x— FENCE

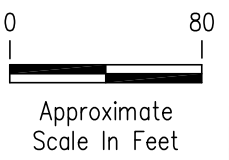
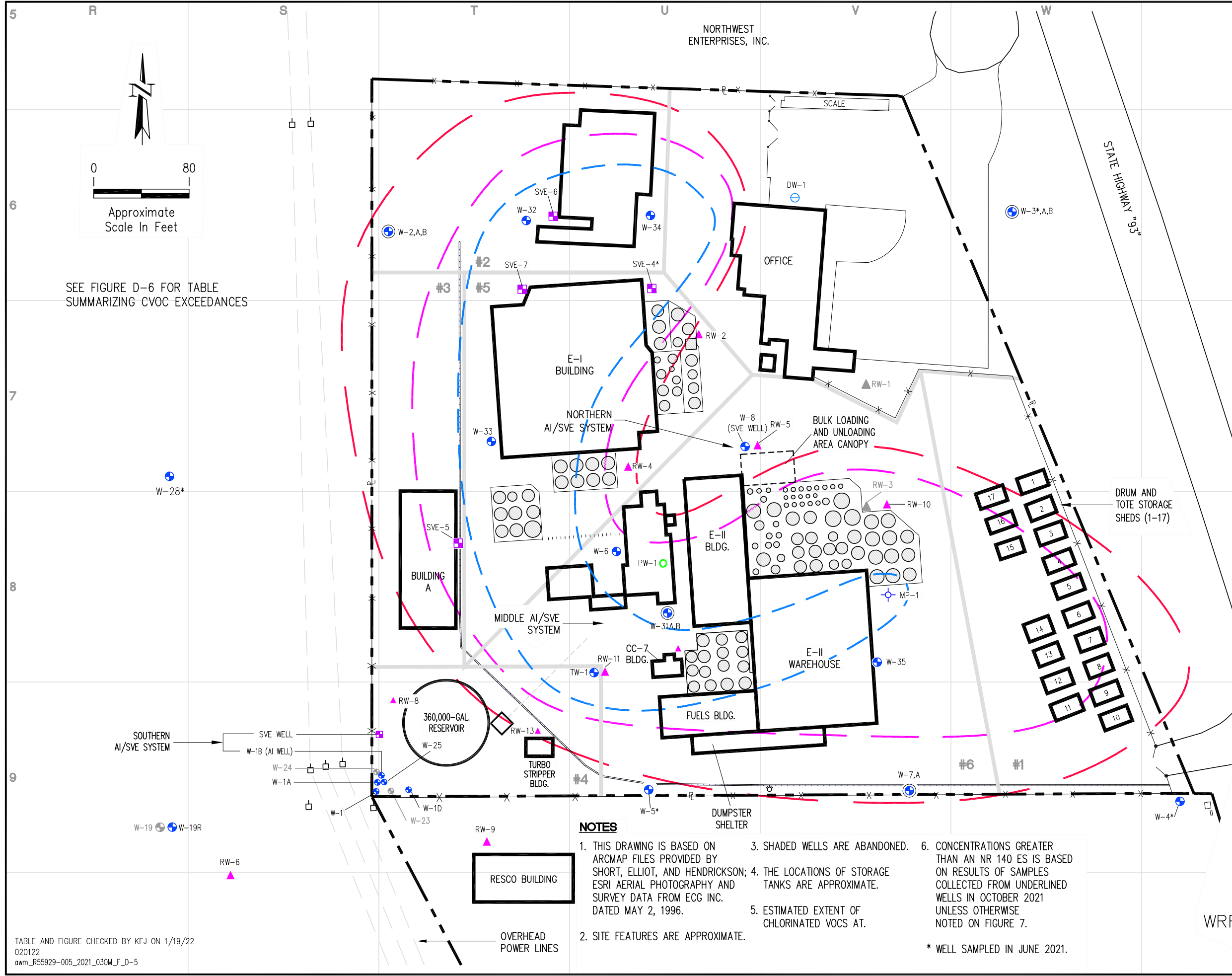
NOTES

1. GROUNDWATER CONTOURS ARE BASED ON ELEVATION MEASURED ON JUNE 1, 2021, WITH RECOVERY WELLS RW-6, RW-10, RW-11, RW-12, RW-13, AND THE PRODUCTION WELL OPERATING.
 2. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
 3. SITE FEATURES ARE APPROXIMATE.
 4. SHADED WELLS WERE NOT USED TO CREATE THIS MAP.
- * GROUNDWATER ELEVATION AT W-30B WAS MEASURED IN OCTOBER 2021 AND NOT USED TO CONSTRUCT GROUNDWATER CONTOURS.

**DEEP/BEDROCK AQUIFER
PIEZOMETRIC CONTOUR
MAP (JUNE 2021)**
WRR ENVIRONMENTAL
SERVICES, INC.
EAU CLAIRE, WISCONSIN

LEGEND

- ESTIMATED EXTENT OF CVOCs AT CONCENTRATIONS TWO ORDERS OF MAGNITUDE GREATER THAN NR 140 ES
- ESTIMATED EXTENT OF CVOCs AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN NR 140 ES
- ESTIMATED EXTENT OF CVOCs AT CONCENTRATIONS GREATER THAN NR 140 ES
- MONITORING WELL
- MONITORING WELL NEST
- RECOVERY WELL
- DUAL PHASE WELL
- PRODUCTION WELL
- DRINKING WATER WELL
- 1-INCH-DIAMETER MONITORING POINT
- ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
- POWER POLE
- LIGHT POLE
- FENCE
- SURFACE WATER DRAINAGE DITCH
- SOLID WASTE MANAGEMENT UNITS



SEE FIGURE D-6 FOR TABLE SUMMARIZING CVOC EXCEEDANCES

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. SITE FEATURES ARE APPROXIMATE.
3. SHADED WELLS ARE ABANDONED.
4. THE LOCATIONS OF STORAGE TANKS ARE APPROXIMATE.
5. ESTIMATED EXTENT OF CHLORINATED VOCs AT.
6. CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED ON FIGURE 7.

* WELL SAMPLED IN JUNE 2021.

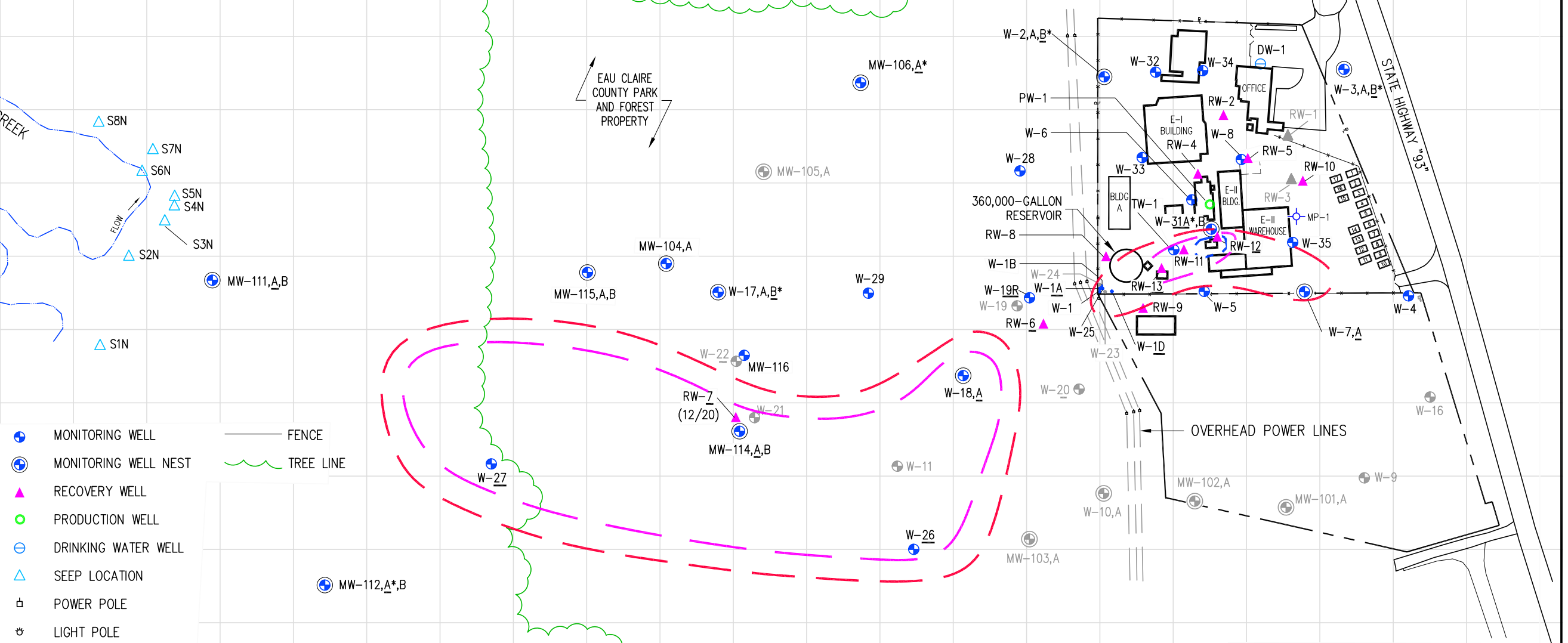
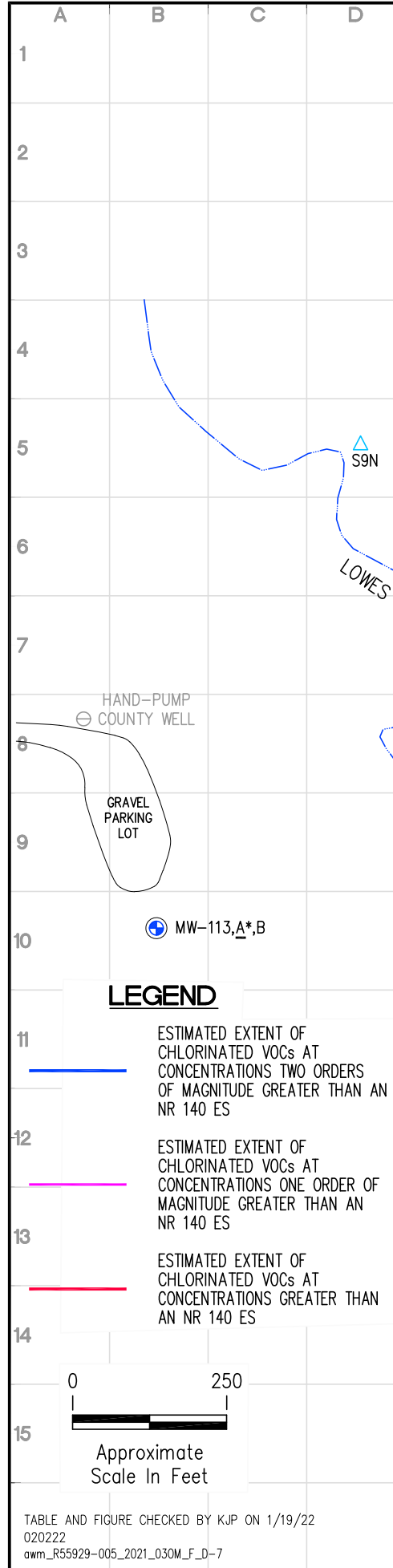
ESTIMATED EXTENT OF CVOCs IN SHALLOW AQUIFER ON SITE (OCTOBER 2021)

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KFJ ON 1/19/22
020122
awm_R55929-005_2021_030M_F_D-5

EXTENT OF CHLORINATED COMPOUNDS IN MID-DEPTH AQUIFER																		
Well ID	W-1A	W-1D	W-7A	W-17B	W-18A	W-19R	W-26	W-27	W-30A	W-31A	MW-111A	MW-114A	RW-6	RW-7	RW-12	RW-13	NR 140	
Date (Month/Year)	10/21	10/21	10/21	10/21	10/21	10/21	10/21	10/21	09/20	06/21	10/21	10/21	11/21	12/20	11/21	11/21	PAL	ES
Chloroethane						86.2					205.5		210			104	80	400
Chloroform																	0.6	6
1,1-Dichloroethane															697		85	850
1,1-Dichloroethene														0.84			0.7	7
1,2-Dichloroethane					0.565J	1.2J				0.74J	1.8J			0.70			0.5	5
cis-1,2-Dichloroethylene							14.4							30.1	2,850	58.0	7	70
trans-1,2-Dichloroethylene																	20	100
1,2-Dichloropropane																	0.5	5
Methylene Chloride					0.77J									0.85	922		0.5	5
Tetrachloroethylene					31.4							7.9					0.5	5
1,1,1-Trichloroethane															1,750		40	200
1,1,2-Trichloroethane									1.2J								0.5	5
Trichloroethylene						1.1		32.2	1.1	0.87J		5.1		2.7	588	16.3	0.5	5
Vinyl Chloride	0.65J	0.70J			2.0		2.3	5.6						19.8	309	19.3	0.02	0.2

NOTES:
 Only wells with one or more chlorinated VOC at concentrations exceeding an Enforcement Standard (ES) or Preventative Action Limit (PAL) are shown on this table.
 Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 Preventative Action Limits (PAL) are shown.
 Concentrations at or above an NR 140 PAL are *italicized*; those at or above an NR 140 ES are in **bold**.



LEGEND

- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS TWO ORDERS OF MAGNITUDE GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- MONITORING WELL
- MONITORING WELL NEST
- RECOVERY WELL
- PRODUCTION WELL
- DRINKING WATER WELL
- SEEP LOCATION
- POWER POLE
- LIGHT POLE
- FENCE
- TREE LINE

NOTES

- THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
- SITE FEATURES ARE APPROXIMATE.
- SHADED WELLS ARE ABANDONED.
- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
- WELLS W-9, W-16, W-19, W-21 AND MW-101 WERE ABANDONED IN SEPT. 2013. WELLS MW-107, MW-107A, MW-109 AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS MW-101A, MW-102, MW-102A, MW-103, MW-103A, MW-108, MW-108A, W-10, W-10A, W-20, AND W-22 WERE REMOVED IN JUNE 2018.
- LOWE'S CREEK HAND PUMP COUNTY WELL WAS REMOVED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.

* WELL SAMPLED IN MAY OR JUNE 2021.

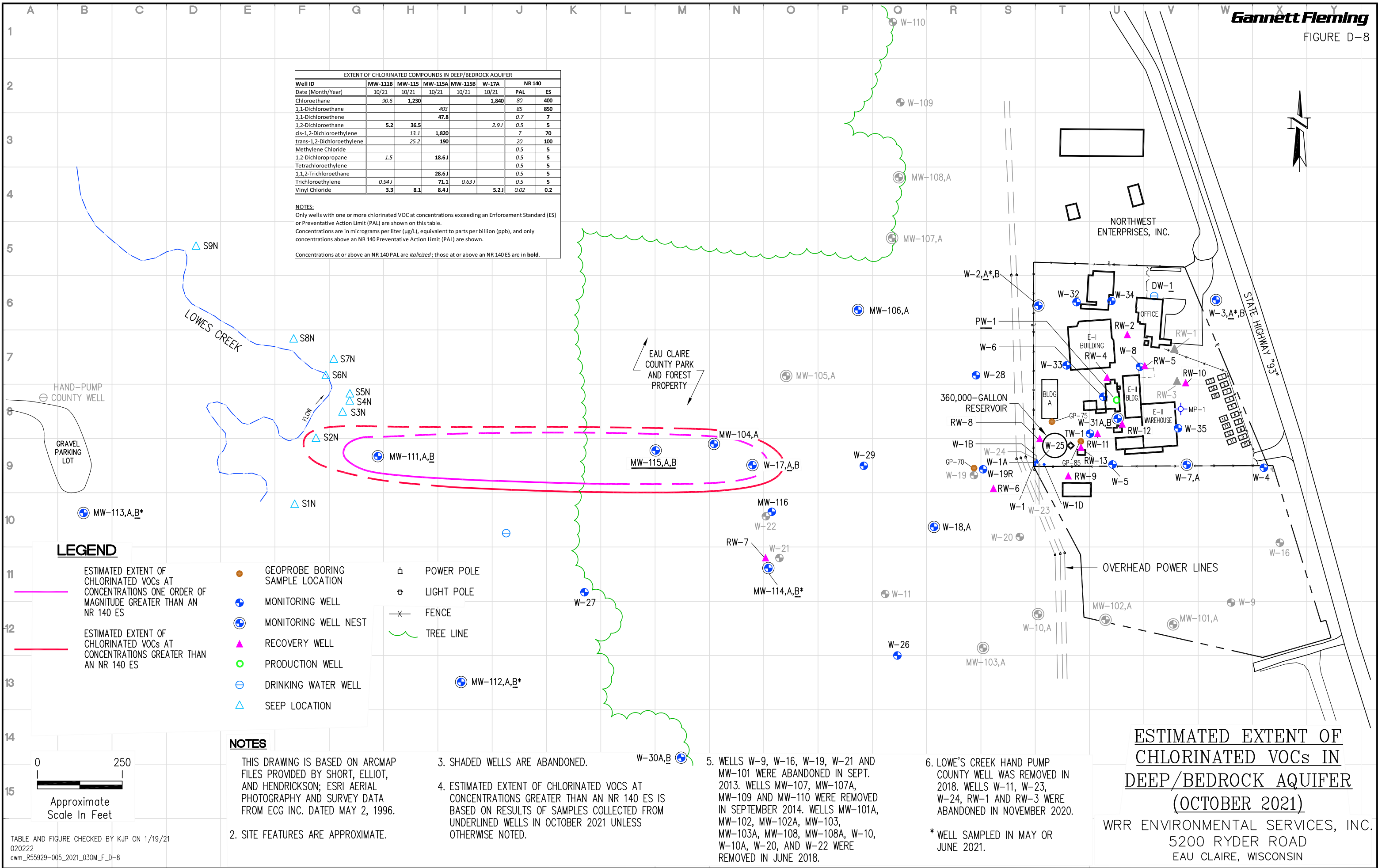
ESTIMATED EXTENT OF CHLORINATED VOCs IN MID-DEPTH AQUIFER (OCTOBER 2021)

WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KJP ON 1/19/22
 020222
 awm_r55929-005_2021_030M_F_D-7

EXTENT OF CHLORINATED COMPOUNDS IN DEEP/BEDROCK AQUIFER							
Well ID	MW-111B	MW-115	MW-115A	MW-115B	W-17A	NR 140	
Date (Month/Year)	10/21	10/21	10/21	10/21	10/21	PAL	ES
Chloroethane	90.6	1,230			1,840	80	400
1,1-Dichloroethane			403			85	850
1,1-Dichloroethene			47.8			0.7	7
1,2-Dichloroethane	5.2	36.5			2.9J	0.5	5
cis-1,2-Dichloroethylene		13.1	1,820			7	70
trans-1,2-Dichloroethylene		25.2	190			20	100
Methylene Chloride						0.5	5
1,2-Dichloropropane	1.5		18.6J			0.5	5
Tetrachloroethylene						0.5	5
1,1,2-Trichloroethane			28.6J			0.5	5
Trichloroethylene	0.94J		71.1	0.63J		0.5	5
Vinyl Chloride	3.3	8.1	8.4J		5.2J	0.02	0.2

NOTES:
 Only wells with one or more chlorinated VOC at concentrations exceeding an Enforcement Standard (ES) or Preventative Action Limit (PAL) are shown on this table.
 Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 Preventative Action Limit (PAL) are shown.
 Concentrations at or above an NR 140 PAL are *italicized*; those at or above an NR 140 ES are in **bold**.



LEGEND

- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- GEOPROBE BORING SAMPLE LOCATION
- MONITORING WELL
- MONITORING WELL NEST
- RECOVERY WELL
- PRODUCTION WELL
- DRINKING WATER WELL
- SEEP LOCATION
- POWER POLE
- LIGHT POLE
- FENCE
- TREE LINE

NOTES

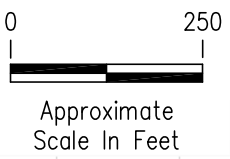
1. THIS DRAWING IS BASED ON ARCPMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. SITE FEATURES ARE APPROXIMATE.
3. SHADED WELLS ARE ABANDONED.
4. ESTIMATED EXTENT OF CHLORINATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
5. WELLS W-9, W-16, W-19, W-21 AND MW-101 WERE ABANDONED IN SEPT. 2013. WELLS MW-107, MW-107A, MW-109 AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS MW-101A, MW-102, MW-102A, MW-103, MW-103A, MW-108, MW-108A, W-10, W-10A, W-20, AND W-22 WERE REMOVED IN JUNE 2018.
6. LOWE'S CREEK HAND PUMP COUNTY WELL WAS REMOVED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.

* WELL SAMPLED IN MAY OR JUNE 2021.

ESTIMATED EXTENT OF CHLORINATED VOCs IN DEEP/BEDROCK AQUIFER (OCTOBER 2021)

WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KJP ON 1/19/21
 020222
 awm_r55929-005_2021_030M_F_D-8



NORTHWEST ENTERPRISES, INC.

LEGEND

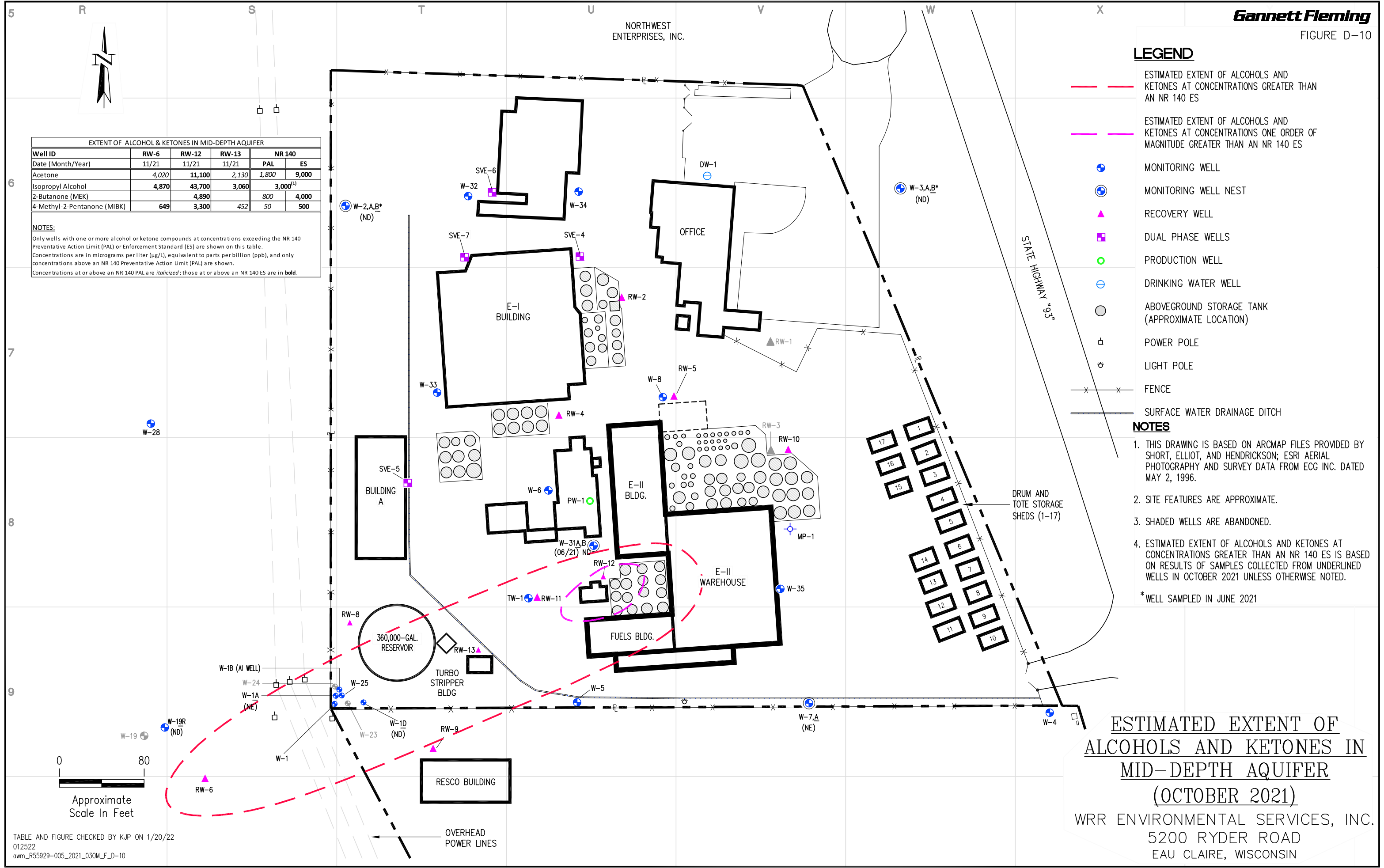
- ESTIMATED EXTENT OF ALCOHOLS AND KETONES AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF ALCOHOLS AND KETONES AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN AN NR 140 ES
- MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- DUAL PHASE WELLS
- PRODUCTION WELL
- ⊖ DRINKING WATER WELL
- ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
- POWER POLE
- ⊗ LIGHT POLE
- FENCE
- SURFACE WATER DRAINAGE DITCH

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
 2. SITE FEATURES ARE APPROXIMATE.
 3. SHADED WELLS ARE ABANDONED.
 4. ESTIMATED EXTENT OF ALCOHOLS AND KETONES AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
- * WELL SAMPLED IN JUNE 2021

EXTENT OF ALCOHOL & KETONES IN MID-DEPTH AQUIFER					
Well ID	RW-6	RW-12	RW-13	NR 140	
Date (Month/Year)	11/21	11/21	11/21	PAL	ES
Acetone	4,020	11,100	2,130	1,800	9,000
Isopropyl Alcohol	4,870	43,700	3,060	3,000⁽¹⁾	
2-Butanone (MEK)		4,890		800	4,000
4-Methyl-2-Pentanone (MIBK)	649	3,300	452	50	500

NOTES:
 Only wells with one or more alcohol or ketone compounds at concentrations exceeding the NR 140 Preventative Action Limit (PAL) or Enforcement Standard (ES) are shown on this table. Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 Preventative Action Limit (PAL) are shown. Concentrations at or above an NR 140 PAL are *italicized*; those at or above an NR 140 ES are in **bold**.

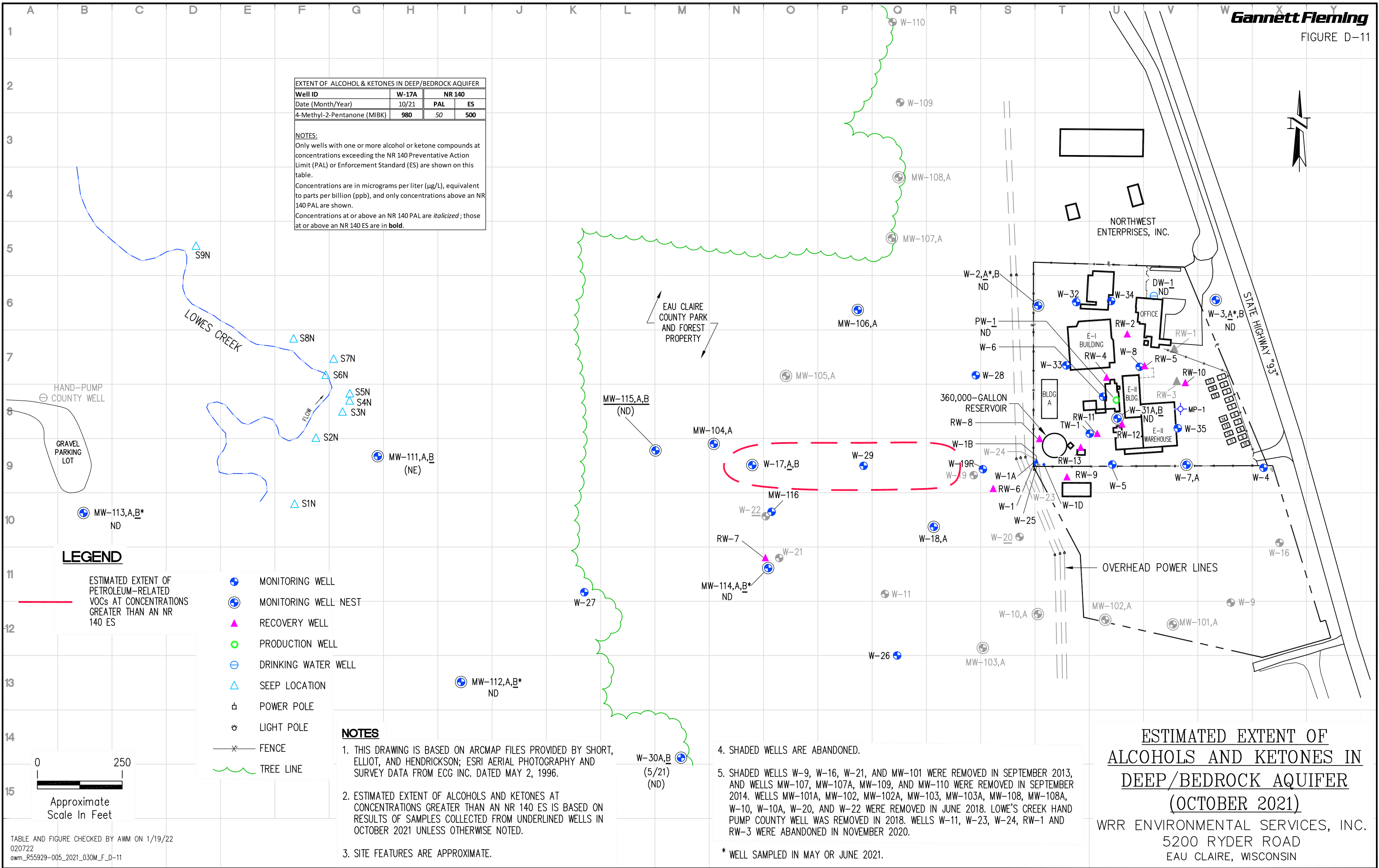


ESTIMATED EXTENT OF ALCOHOLS AND KETONES IN MID-DEPTH AQUIFER (OCTOBER 2021)
 WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KJP ON 1/20/22
 012522
 awm_R55929-005_2021_030M_F_D-10

EXTENT OF ALCOHOL & KETONES IN DEEP/BEDROCK AQUIFER			
Well ID	W-17A	NR 140	
Date (Month/Year)	10/21	PAL	ES
4-Methyl-2-Pentanone (MIBK)	980	50	500

NOTES:
 Only wells with one or more alcohol or ketone compounds at concentrations exceeding the NR 140 Preventative Action Limit (PAL) or Enforcement Standard (ES) are shown on this table.
 Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 PAL are shown.
 Concentrations at or above an NR 140 PAL are *italicized*; those at or above an NR 140 ES are in **bold**.



LEGEND

ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES

- ⊕ MONITORING WELL
- ⊕ MONITORING WELL NEST
- ▲ RECOVERY WELL
- PRODUCTION WELL
- ⊖ DRINKING WATER WELL
- △ SEEP LOCATION
- ⊠ POWER POLE
- ⊙ LIGHT POLE
- FENCE
- TREE LINE

0 250

Approximate Scale In Feet

NOTES

- THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
- ESTIMATED EXTENT OF ALCOHOLS AND KETONES AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
- SITE FEATURES ARE APPROXIMATE.

4. SHADED WELLS ARE ABANDONED.












5. SHADED WELLS W-9, W-16, W-21, AND MW-101 WERE REMOVED IN SEPTEMBER 2013, AND WELLS MW-107, MW-107A, MW-109, AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS MW-101A, MW-102, MW-102A, MW-103, MW-103A, MW-108, MW-108A, W-10, W-10A, W-20, AND W-22 WERE REMOVED IN JUNE 2018. LOWE'S CREEK HAND PUMP COUNTY WELL WAS REMOVED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.

* WELL SAMPLED IN MAY OR JUNE 2021.

ESTIMATED EXTENT OF ALCOHOLS AND KETONES IN DEEP/BEDROCK AQUIFER (OCTOBER 2021)

WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

LEGEND

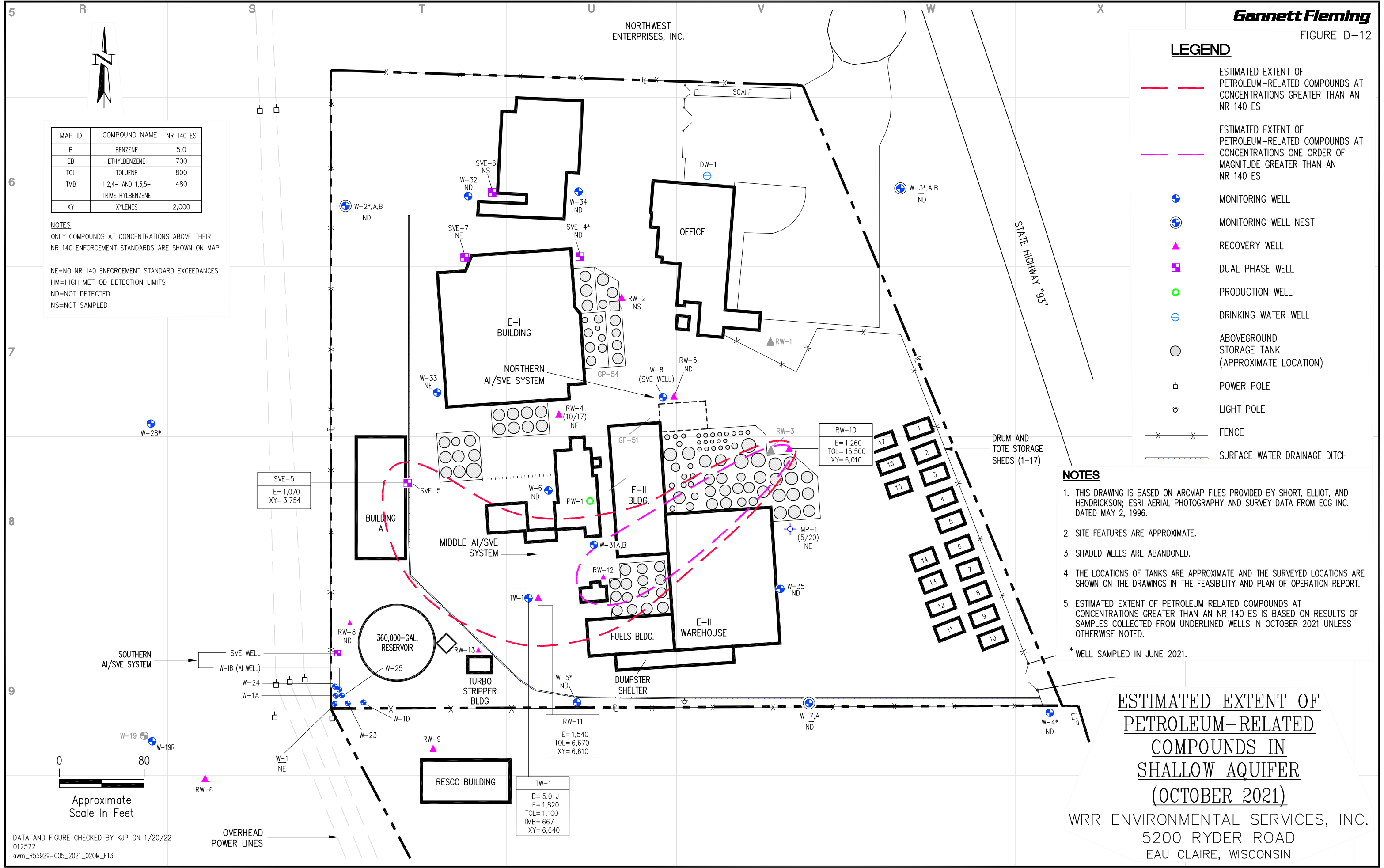
- ESTIMATED EXTENT OF PETROLEUM-RELATED COMPOUNDS AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF PETROLEUM-RELATED COMPOUNDS AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN AN NR 140 ES
-  MONITORING WELL
-  MONITORING WELL NEST
-  RECOVERY WELL
-  DUAL PHASE WELL
-  PRODUCTION WELL
-  DRINKING WATER WELL
-  ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
-  POWER POLE
-  LIGHT POLE
-  FENCE
-  SURFACE WATER DRAINAGE DITCH

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
 2. SITE FEATURES ARE APPROXIMATE.
 3. SHADED WELLS ARE ABANDONED.
 4. THE LOCATIONS OF TANKS ARE APPROXIMATE AND THE SURVEYED LOCATIONS ARE SHOWN ON THE DRAWINGS IN THE FEASIBILITY AND PLAN OF OPERATION REPORT.
 5. ESTIMATED EXTENT OF PETROLEUM RELATED COMPOUNDS AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
- * WELL SAMPLED IN JUNE 2021.

**ESTIMATED EXTENT OF
PETROLEUM-RELATED
COMPOUNDS IN
SHALLOW AQUIFER
(OCTOBER 2021)**

WRR ENVIRONMENTAL SERVICES, INC.
5200 RYDER ROAD
EAU CLAIRE, WISCONSIN



MAP ID	COMPOUND NAME	NR 140 ES
B	BENZENE	5.0
EB	ETHYLBENZENE	700
TOL	TOLUENE	800
TMB	1,2,4- AND 1,3,5-TRIMETHYLBENZENE	480
XY	XYLENES	2,000

NOTES
ONLY COMPOUNDS AT CONCENTRATIONS ABOVE THEIR NR 140 ENFORCEMENT STANDARDS ARE SHOWN ON MAP.

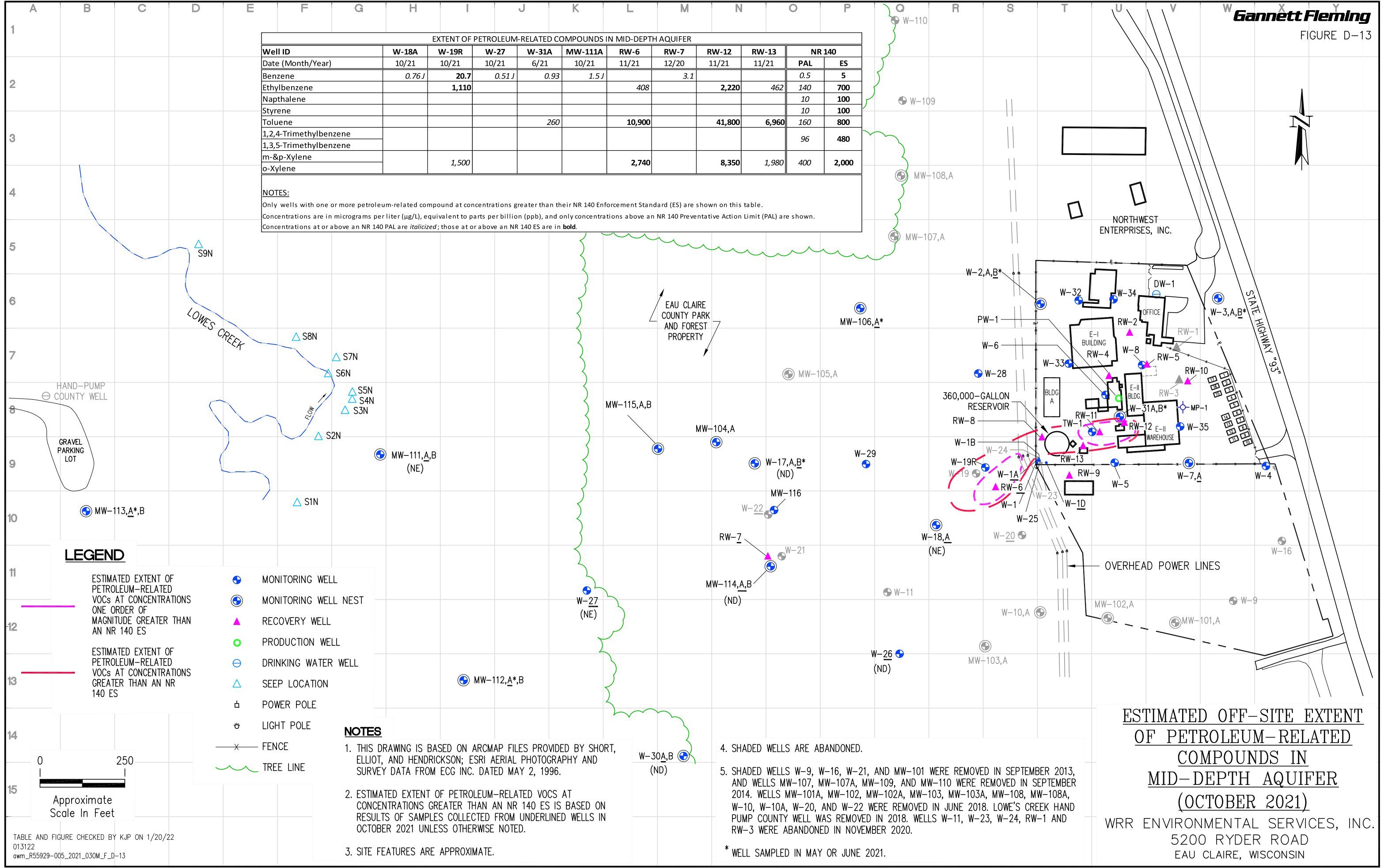
NE=NO NR 140 ENFORCEMENT STANDARD EXCEEDANCES
HM=HIGH METHOD DETECTION LIMITS
ND=NOT DETECTED
NS=NOT SAMPLED

Approximate Scale In Feet

DATA AND FIGURE CHECKED BY KJP ON 1/20/22
012522
awm_R55929-005_2021_020M_F13

EXTENT OF PETROLEUM-RELATED COMPOUNDS IN MID-DEPTH AQUIFER											
Well ID	W-18A	W-19R	W-27	W-31A	MW-111A	RW-6	RW-7	RW-12	RW-13	NR 140	
Date (Month/Year)	10/21	10/21	10/21	6/21	10/21	11/21	12/20	11/21	11/21	PAL	ES
Benzene	0.76 <i>J</i>	20.7	0.51 <i>J</i>	0.93	1.5 <i>J</i>		3.1			0.5	5
Ethylbenzene		1,110				408		2,220	462	140	700
Napthalene										10	100
Styrene										10	100
Toluene				260		10,900		41,800	6,960	160	800
1,2,4-Trimethylbenzene										96	480
1,3,5-Trimethylbenzene											
m-&p-Xylene		1,500				2,740		8,350	1,980	400	2,000
o-Xylene											

NOTES:
 Only wells with one or more petroleum-related compound at concentrations greater than their NR 140 Enforcement Standard (ES) are shown on this table.
 Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 Preventative Action Limit (PAL) are shown.
 Concentrations at or above an NR 140 PAL are *italicized*; those at or above an NR 140 ES are in **bold**.



LEGEND

- ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS ONE ORDER OF MAGNITUDE GREATER THAN AN NR 140 ES
- ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- + MONITORING WELL
- + MONITORING WELL NEST
- ▲ RECOVERY WELL
- PRODUCTION WELL
- ⊖ DRINKING WATER WELL
- ▲ SEEP LOCATION
- ⊕ POWER POLE
- ⊙ LIGHT POLE
- x FENCE
- ~ TREE LINE

NOTES

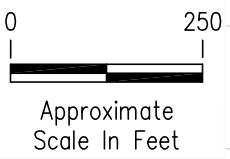
1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
3. SITE FEATURES ARE APPROXIMATE.
4. SHADED WELLS ARE ABANDONED.
5. SHADED WELLS W-9, W-16, W-21, AND MW-101 WERE REMOVED IN SEPTEMBER 2013, AND WELLS MW-107, MW-107A, MW-109, AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS MW-101A, MW-102, MW-102A, MW-103, MW-103A, MW-108, MW-108A, W-10, W-10A, W-20, AND W-22 WERE REMOVED IN JUNE 2018. LOWE'S CREEK HAND PUMP COUNTY WELL WAS REMOVED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.

* WELL SAMPLED IN MAY OR JUNE 2021.

ESTIMATED OFF-SITE EXTENT OF PETROLEUM-RELATED COMPOUNDS IN MID-DEPTH AQUIFER (OCTOBER 2021)

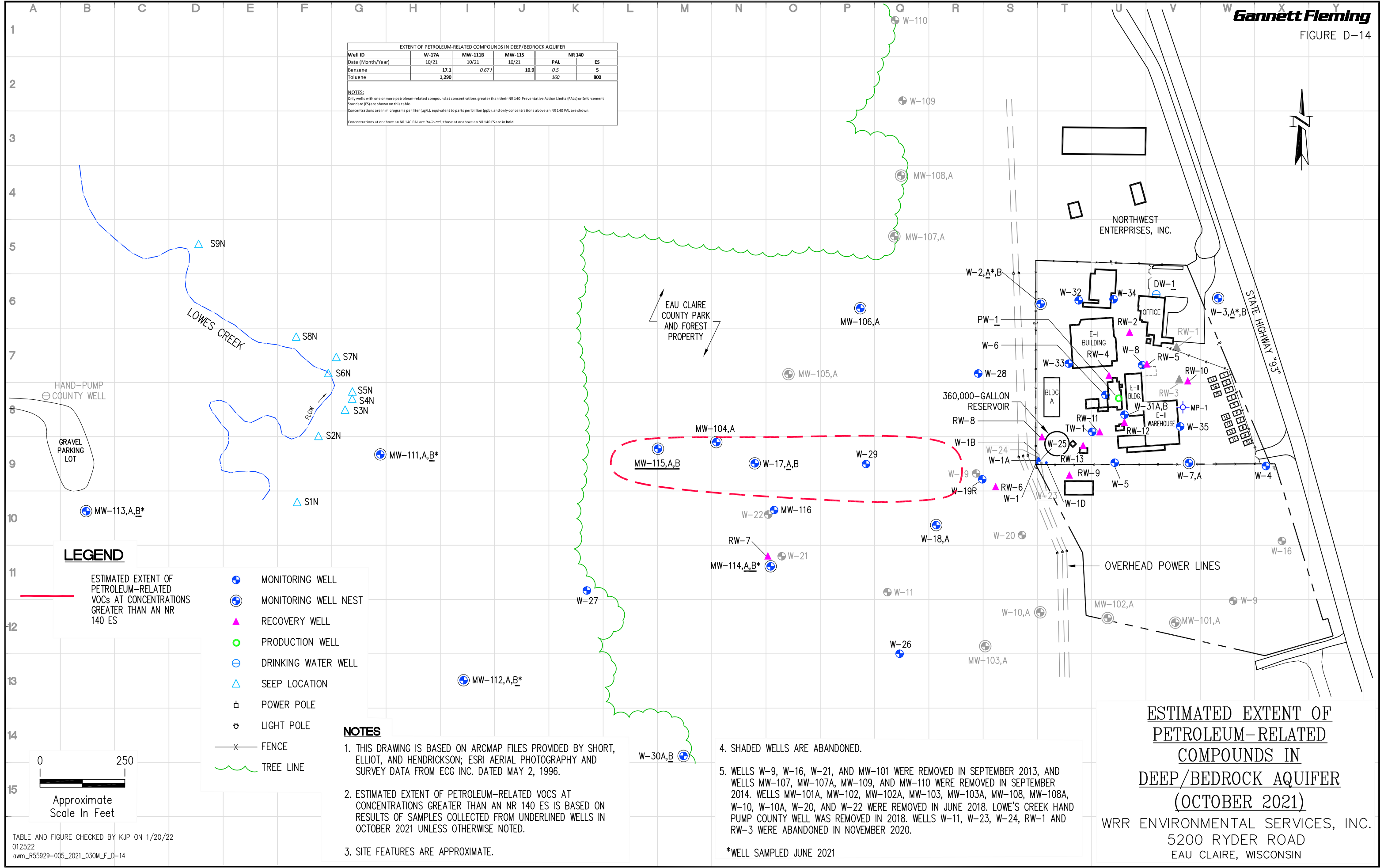
WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KJP ON 1/20/22
 013122
 awm_R55929-005_2021_030M_F_D-13



EXTENT OF PETROLEUM-RELATED COMPOUNDS IN DEEP/BEDROCK AQUIFER					
Well ID	W-17A	MW-111B	MW-115	NR 140 PAL	ES
Date (Month/Year)	10/21	10/21	10/21	PAL	ES
Benzene	17.1	0.67	10.9	0.5	5
Toluene	1,290			160	800

NOTES:
 Only wells with one or more petroleum-related compound at concentrations greater than their NR 140 Preventative Action Limits (PALs) or Enforcement Standard (ES) are shown on this table.
 Concentrations are in micrograms per liter (µg/L), equivalent to parts per billion (ppb), and only concentrations above an NR 140 PAL are shown.
 Concentrations at or above an NR 140 PAL are italicized; those at or above an NR 140 ES are in bold.



LEGEND

- ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES
- MONITORING WELL
- MONITORING WELL NEST
- RECOVERY WELL
- PRODUCTION WELL
- DRINKING WATER WELL
- SEEP LOCATION
- POWER POLE
- LIGHT POLE
- FENCE
- TREE LINE

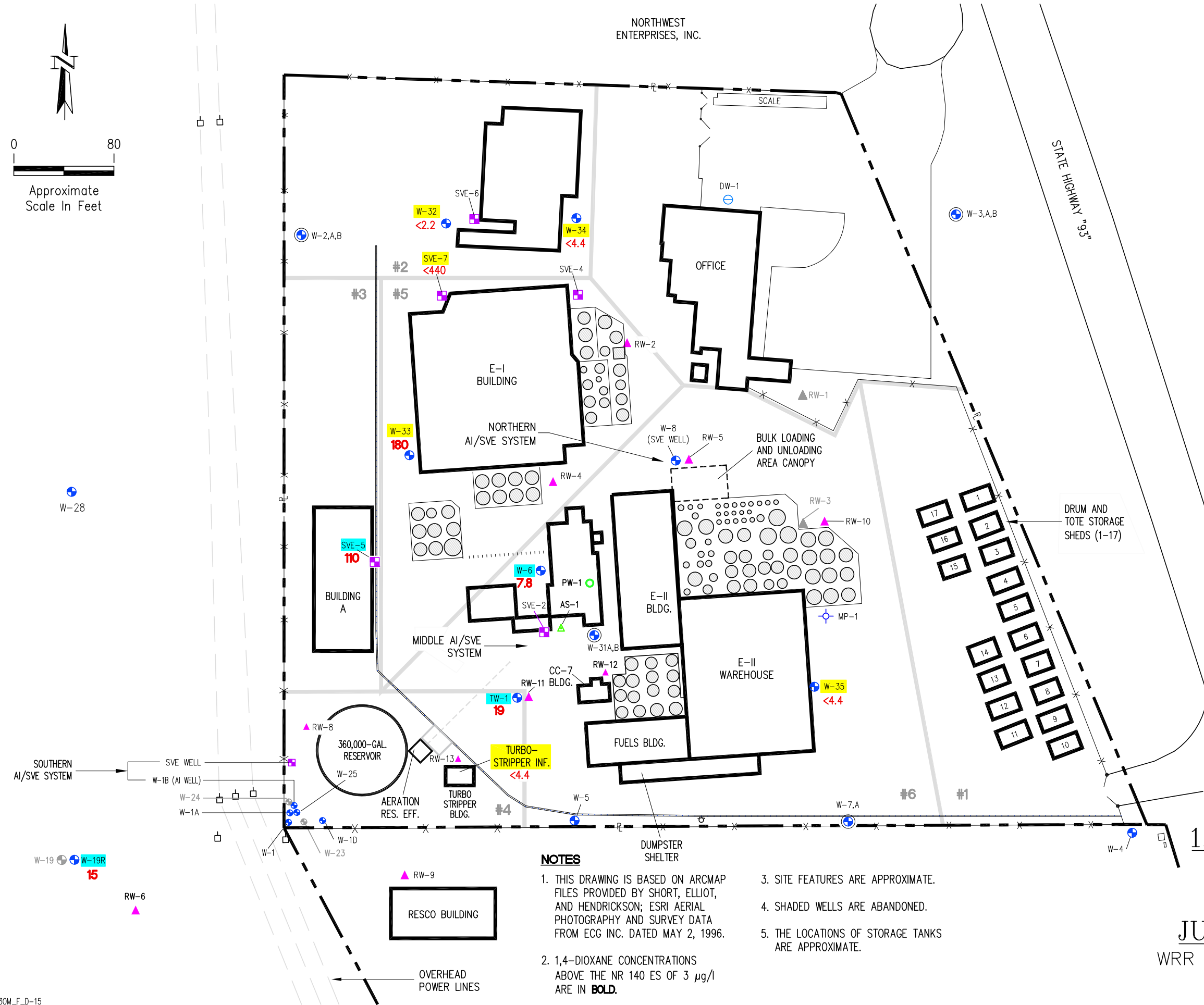
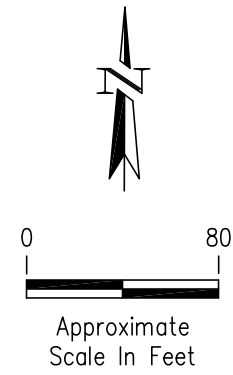
NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
 2. ESTIMATED EXTENT OF PETROLEUM-RELATED VOCs AT CONCENTRATIONS GREATER THAN AN NR 140 ES IS BASED ON RESULTS OF SAMPLES COLLECTED FROM UNDERLINED WELLS IN OCTOBER 2021 UNLESS OTHERWISE NOTED.
 3. SITE FEATURES ARE APPROXIMATE.
 4. SHADED WELLS ARE ABANDONED.
 5. WELLS W-9, W-16, W-21, AND MW-101 WERE REMOVED IN SEPTEMBER 2013, AND WELLS MW-107, MW-107A, MW-109, AND MW-110 WERE REMOVED IN SEPTEMBER 2014. WELLS MW-101A, MW-102, MW-102A, MW-103, MW-103A, MW-108, MW-108A, W-10, W-10A, W-20, AND W-22 WERE REMOVED IN JUNE 2018. LOWE'S CREEK HAND PUMP COUNTY WELL WAS REMOVED IN 2018. WELLS W-11, W-23, W-24, RW-1 AND RW-3 WERE ABANDONED IN NOVEMBER 2020.
- *WELL SAMPLED JUNE 2021

ESTIMATED EXTENT OF PETROLEUM-RELATED COMPOUNDS IN DEEP/BEDROCK AQUIFER (OCTOBER 2021)

WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

TABLE AND FIGURE CHECKED BY KJP ON 1/20/22
 012522
 awm_R55929-005_2021_030M_F_D-14



LEGEND

- LOCATIONS SAMPLED FOR 1,4-DIOXANE IN JUNE 2021
- LOCATIONS SAMPLED FOR 1,4-DIOXANE IN OCTOBER 2021
- 180** 1,4-DIOXANE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/l}$)
- + MONITORING WELL
- + MONITORING WELL NEST
- ▲ RECOVERY WELL
- DUAL PHASE
- PRODUCTION WELL
- ▲ AIR SPARGE WELL
- ⊖ DRINKING WATER WELL
- + 1-INCH-DIAMETER MONITORING POINT
- ABOVEGROUND STORAGE TANK (APPROXIMATE LOCATION)
- POWER POLE
- ⊙ LIGHT POLE
- x-x- FENCE
- SURFACE WATER DRAINAGE DITCH
- #2 SOLID WASTE MANAGEMENT UNITS

NOTES

1. THIS DRAWING IS BASED ON ARCMAP FILES PROVIDED BY SHORT, ELLIOT, AND HENDRICKSON; ESRI AERIAL PHOTOGRAPHY AND SURVEY DATA FROM ECG INC. DATED MAY 2, 1996.
2. 1,4-DIOXANE CONCENTRATIONS ABOVE THE NR 140 ES OF $3 \mu\text{g/l}$ ARE IN **BOLD**.
3. SITE FEATURES ARE APPROXIMATE.
4. SHADED WELLS ARE ABANDONED.
5. THE LOCATIONS OF STORAGE TANKS ARE APPROXIMATE.

1,4-DIOXANE SAMPLE LOCATIONS & CONCENTRATIONS
JUNE & OCTOBER 2021
 WRR ENVIRONMENTAL SERVICES, INC.
 5200 RYDER ROAD
 EAU CLAIRE, WISCONSIN

APPENDIX D-2

TABLES WITH ANALYTICAL RESULTS OF GROUNDWATER SAMPLES COLLECTED
MAY THROUGH OCTOBER 2021

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-1

GROUNDWATER MONITORING SCHEDULE

Sample Point Name	WDNR Well ID	Sampling Frequency
Production Well	010	A
Drinking Water Well	020	SA
W-1	100	A
W-1A	103	SA
W-1D	109	SA
W-2	112	SA
W-2A	115	A
W-2B	118	A
W-3	121	A
W-3A	124	A
W-3B	127	A
W-4	130	A
W-5	133	A
W-6	136	SA
W-7	139	SA
W-7A	142	SA
W-17	169	A
W-17A	172	SA
W-17B	175	SA
W-18	178	A
W-18A	181	SA
W-19R	185	SA
W-26	205	SA
W-27	208	SA
W-28	211	A
W-29	214	A
W-30A	217	SA
W-30B	220	SA
W-31A	223	A
W-31B	226	A
W-32	228	SA
W-33	233	SA
W-34	235	SA
W-35		SA
MW-106	330	A
MW-106A	333	A

Sample Point Name	WDNR Well ID	Sampling Frequency
MW-111	357	A
MW-111A	360	SA
MW-111B	363	SA
MW-112	366	A
MW-112A	369	A
MW-112B	372	A
MW-113	375	A
MW-113A	378	A
MW-113B	381	A
MW-114	384	SA
MW-114A	387	SA
MW-114B	390	A
MW-115	393	SA
MW-115A	396	SA
MW-115B	399	SA
MW-116	402	A
TW-1	404	SA
RW-2	503	A
RW-4	509	A
RW-5	512	A
RW-6	515	SA
RW-7	518	SA
RW-8	521	A
RW-9	524	A
RW-10	527	SA
RW-11	530	SA
RW-12	532	SA
RW-13	534	SA
Seep 2N (2nd Seep N)	610	A
Seep 7N	612	A
PW-11		A
PW-16		A
Method Blank	995	1 per event
Field Blank	997	1 per event
Trip Blank	999	1 per cooler
Duplicate		1 per 10 samples

NOTES:

SA = Semi-annual sampling in the spring and fall.

A = Annual sample collected in the spring each year.

Wells that had their sampling frequency changed in January 2020 are highlighted in yellow.

Private wells PW-11 and PW-16 replaced annual sampling of Seeps #8 & #9.

TABLE D-2

GROUNDWATER ELEVATIONS (MAY 2020 THROUGH OCTOBER 2021)

Well ID	WDNR Well ID	Reference Elevation (ft MSL)	May 12-13, 2020		Sept 21-22, 2020		November 9, 2020		June 1, 2021		October 6, 2021	
			Depth to Water (ft)	GW Elevation (ft MSL)	Depth to Water (ft)	GW Elevation (ft MSL)	Depth to Water (ft)	GW Elevation (ft MSL)	Depth to Water (ft)	GW Elevation (ft MSL)	Depth to Water (ft)	GW Elevation (ft MSL)
W-1	100	893.58	4.10	889.48	2.63	890.95	2.64	890.94	2.69	890.89	2.20	891.38
W-1A	103	893.68	17.43	876.25	17.83	875.85	NM	NM	21.33	872.35	19.82	873.86
W-1D	109	895.00	17.55	877.45	18.75	876.25	NM	NM	22.46	872.54	20.75	874.25
W-2	112	899.21	13.96	885.25	11.37	887.84	12.00	887.21	13.68	885.53	12.46	886.75
W-2A	115	900.17	24.15	876.02	25.09	875.08	NM	NM	27.18	872.99	26.70	873.47
W-2B	118	900.03	9.45	890.58	15.20	884.83	NM	NM	18.33	881.70	16.69	883.34
W-3	121	902.22	10.35	891.87	11.54	890.68	12.50	889.72	13.50	888.72	12.86	889.36
W-3A	124	903.79	26.71	877.08	27.63	876.16	NM	NM	29.47	874.32	29.34	874.45
W-3B	127	904.14	13.76	890.38	15.13	889.01	NM	NM	18.30	885.84	16.96	887.18
W-4	130	903.20	12.10	891.10	13.86	889.34	14.72	888.48	16.83	886.37	15.52	887.68
W-5	133	899.47	8.89	890.58	10.16	889.31	10.53	888.94	10.46	889.01	10.19	889.28
W-6	136	900.88	11.52	889.36	12.07	888.81	12.80	888.08	14.20	886.68	13.25	887.63
W-7	139	904.18	14.20	889.98	15.45	888.73	16.36	887.82	18.39	885.79	16.93	887.25
W-7A	142	905.33	16.50	888.83	17.80	887.53	NM	NM	22.20	883.13	19.69	885.64
W-17	169	891.97	10.20	881.77	13.30	878.67	NM	NM	14.15	877.82	11.65	880.32
W-17A	172	890.11	32.90	857.21	32.78	857.33	NM	NM	34.77	855.34	34.76	855.35
W-17B	175	890.38	28.95	861.43	30.35	860.03	NM	NM	30.89	859.49	30.95	859.43
W-18	178	890.69	2.73	887.96	5.13	885.56	NM	NM	2.67	888.02	4.98	885.71
W-18A	181	890.82	22.18	868.64	23.51	867.31	NM	NM	24.96	865.86	24.64	866.18
W-19R	185	892.30	19.80	872.50	21.31	870.99	NM	NM	23.59	868.71	23.00	869.30
W-25	202	895.08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
W-26	205	892.37	27.27	865.10	28.88	863.49	NM	NM	29.91	862.46	30.20	862.17
W-27	208	888.86	34.00	854.86	35.30	853.56	NM	NM	36.27	852.59	36.35	852.51
W-28	211	893.36	4.50	888.86	6.72	886.64	6.41	886.95	7.31	886.05	6.85	886.51
W-29	214	892.26	5.03	887.23	7.30	884.96	NM	NM	6.78	885.48	6.84	885.42
W-30A	217	875.57	19.85	855.72	20.73	854.84	NM	NM	NM	NM	21.66	853.91
W-30B	220	876.33	18.60	857.73	19.50	856.83	NM	NM	NM	NM	20.41	855.92
W-31A	223	902.86	17.18	885.68	18.20	884.66	NM	NM	22.64	880.22	NM	NM
W-31B	226	902.94	17.04	885.90	21.10	881.84	NM	NM	29.93	873.01	NM	NM
W-32	788	899.36	11.60	887.76	12.94	886.42	13.73	885.63	15.79	883.57	14.60	884.76
W-33	787	901.26	9.40	891.86	7.20	894.06	11.27	889.99	12.40	888.86	11.68	889.58
W-34	592	904.41	14.87	889.54	12.80	891.61	16.75	887.66	19.18	885.23	17.98	886.43
W-35	NA	904.19	14.11	890.08	15.35	888.84	16.36	887.83	18.38	885.81	17.29	886.90
MW-104	318	890.46	9.12	881.34	11.60	878.86	NM	NM	12.19	878.27	10.92	879.54
MW-104A	321	890.74	30.00	860.74	31.55	859.19	NM	NM	32.71	858.03	32.35	858.39
MW-106	330	892.88	6.67	886.21	9.12	883.76	NM	NM	9.76	883.12	9.24	883.64
MW-106A	333	892.89	22.96	869.93	24.35	868.54	NM	NM	26.35	866.54	25.68	867.21
MW-111	357	888.11	40.96	847.15	41.50	846.61	NM	NM	41.65	846.46	42.25	845.86
MW-111A	360	888.24	40.45	847.79	40.90	847.34	NM	NM	41.50	846.74	41.50	846.74
MW-111B	363	888.07	37.16	850.91	37.75	850.32	NM	NM	38.50	849.57	38.76	849.31
MW-112	366	886.26	34.14	852.12	34.95	851.31	NM	NM	35.71	850.55	35.95	850.31
MW-112A	369	886.08	34.21	851.87	34.88	851.20	NM	NM	35.51	850.57	35.79	850.29
MW-112B	372	886.29	34.19	852.10	34.80	851.49	NM	NM	35.50	850.79	35.74	850.55
MW-113	375	890.59	40.15	850.44	40.60	849.99	NM	NM	41.28	849.31	41.75	848.84
MW-113A	378	890.83	40.20	850.63	40.75	850.08	NM	NM	41.46	849.37	41.90	848.93
MW-113B	381	890.81	39.59	851.22	40.13	850.68	NM	NM	40.86	849.95	41.23	849.58
MW-114	384	890.15	30.10	860.05	31.52	858.63	NM	NM	30.81	859.34	30.66	859.49
MW-114A	387	889.95	31.60	858.35	32.70	857.25	NM	NM	33.67	856.27	33.72	856.23
MW-114B	390	890.01	31.50	858.51	32.30	857.71	NM	NM	33.35	856.66	33.38	856.63
MW-115	393	889.14	34.79	854.35	35.50	853.64	NM	NM	36.57	852.57	36.60	852.54
MW-115A	396	888.42	34.15	854.27	34.90	853.52	NM	NM	35.78	852.64	35.95	852.47
MW-115B	399	888.54	34.10	854.44	34.78	853.76	NM	NM	35.71	852.83	35.86	852.68
MW-116	402	889.80	4.68	885.12	7.60	882.20	NM	NM	7.19	882.61	6.47	883.33
RW-2		905.31					17.07	888.24	18.31	887.00	18.61	886.70
RW-5	512	903.75	13.94	889.81	14.92	888.83	15.80	887.95	17.94	885.81	16.92	886.83
TW-1	NA	899.14	9.39	889.75	10.41	888.73	10.83	888.31	11.28	887.86	10.72	879.03

NOTES:

NA = Not applicable.

NM = Not measured.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-3

MEASURED VERTICAL GRADIENT (JUNE & OCTOBER 2021)

Well ID	WDNR Well ID	Ground Surface Elevation (ft MSL)	Top of Casing Elevation (ft MSL)	Top of Screened Interval (ft MSL)	Bottom of Screened Interval (ft MSL)	June 2021 Data			October 2021 Data		
						Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)	Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)
W-1	100	892.24	893.58	890.24	885.24	2.69	890.89		2.20	891.38	
W-1A	103	892.64	893.68	855.64	852.64	21.33	872.35	(0.5518)	19.82	873.86	(0.5214)
W-1D	109	892.64	895.00	849.64	844.64	22.46	872.54	(0.4520)	20.75	874.25	(0.4219)
W-2	112	898.52	899.21	889.52	884.52	13.68	885.53		12.46	886.75	
W-2B	118	897.92	900.03	847.92	842.92	18.33	881.70	(0.0967)	16.69	883.34	(0.0848)
W-2A	115	898.02	900.17	793.02	788.02	27.18	872.99	(0.1587)	26.70	873.47	(0.1798)
W-3	121	901.66	902.22	891.66	886.66	13.50	888.72		12.86	889.36	
W-3B	127	902.16	904.14	846.16	841.16	18.30	885.84	(0.0654)	16.96	887.18	(0.0492)
W-3A	124	902.86	903.79	794.86	789.86	29.47	874.32	(0.2246)	29.34	874.45	(0.2481)
W-7	139	900.53	904.18	888.03	878.03	18.39	885.79		16.93	887.25	
W-7A	142	900.53	905.33	873.03	868.03	22.20	883.13	(0.2337)	19.69	885.64	(0.1329)
W-17	169	888.32	891.97	886.12	875.32	14.15	877.82		11.65	880.32	
W-17B	175	888.32	890.38	844.32	839.32	30.89	859.49	(0.5275)	30.95	859.43	(0.5803)
W-17A	172	888.32	890.11	793.32	788.32	34.77	855.34	(0.0814)	34.76	855.35	(0.0800)
W-18	178	888.24	890.69	884.74	874.74	2.67	888.02		4.98	885.71	
W-18A	181	888.24	890.82	838.24	833.24	24.96	865.86	(0.5036)	24.64	866.18	(0.4439)
W-30A	217	872.07	875.57	762.07	757.07	NM	NM		21.66	853.91	
W-30B	220	872.83	876.33	749.33	744.33	NM	NM	NM	20.41	855.92	0.1578
W-31A	223	900.37	902.86	860.16	855.16	22.64	880.22		NM	NM	
W-31B	226	900.37	902.94	839.64	834.64	29.93	873.01	(0.3514)	NM	NM	NM
MW-104	318	888.68	890.46	878.68	873.68	12.19	878.27		10.92	879.54	
MW-104A	321	888.68	890.74	853.18	848.18	32.71	858.03	(0.8002)	32.35	858.39	(0.8294)
MW-106	330	890.96	892.88	880.96	875.96	9.76	883.12		9.24	883.64	
MW-106A	333	890.96	892.89	853.96	848.96	26.35	866.54	(0.6141)	25.68	867.21	(0.6085)

TABLE D-3

MEASURED VERTICAL GRADIENT (JUNE & OCTOBER 2021)

Well ID	WDNR Well ID	Ground Surface Elevation (ft MSL)	Top of Casing Elevation (ft MSL)	Top of Screened Interval (ft MSL)	Bottom of Screened Interval (ft MSL)	June 2021 Data			October 2021 Data		
						Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)	Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)
MW-111	357	885.59	888.11	850.59	840.59	41.65	846.46		42.25	845.86	
MW-111A	360	885.59	888.24	820.59	815.59	41.50	846.74	0.0110	41.50	846.74	0.0350
MW-111B	363	885.51	888.07	790.51	785.51	38.50	849.57	0.0941	38.76	849.31	0.0854
MW-112	366	883.88	886.26	853.88	843.88	35.71	850.55		35.95	850.31	
MW-112A	369	883.43	886.08	828.43	823.43	35.51	850.57	0.0009	35.79	850.29	(0.0009)
MW-112B	372	883.87	886.29	798.87	793.87	35.50	850.79	0.0074	35.74	850.55	0.0088
MW-113	375	888.21	890.59	852.21	842.21	41.28	849.31		41.75	848.84	
MW-113A	378	888.14	890.83	823.14	818.14	41.46	849.37	0.0024	41.90	848.93	0.0036
MW-113B	381	888.36	890.81	793.36	788.36	40.86	849.95	0.0195	41.23	849.58	0.0218
MW-114	384	886.65	890.15	861.70	846.70	30.81	859.34		30.66	859.49	
MW-114A	387	886.45	889.95	787.25	782.25	33.67	856.28	(0.0448)	33.72	856.23	(0.0477)
MW-114B	390	886.51	890.01	751.51	746.51	33.35	856.66	0.0106	33.38	856.63	0.0112
MW-115	393	885.64	889.14	795.44	790.44	36.57	852.57		36.60	852.54	
MW-115A	396	884.92	888.42	775.80	770.80	35.78	852.64	0.0036	35.95	852.47	(0.0036)
MW-115B	399	885.04	888.54	745.94	740.94	35.71	852.83	0.0064	35.86	852.68	0.0070

NOTES:

Site datum = feet above mean sea level (ft MSL).

Negative/downward calculated vertical gradients are enclosed in parenthesis and (red).

Top of casing & ground surface elevations for W-1 thru W-29 and MW-101 thru MW-110 taken from ECG Inc.'s 05/02/96 "Site Plan-Waste Research and Reclamation" showing revised monitoring well elevations.

Top of casing elevation for W-30A, W-30B, MW-103, and MW-103A from WRR level survey conducted 9/19/07.

Top of casing and ground surface elevations for W-111 through MW-113B based on table with groundwater monitoring well information prepared by SEH dated Jan 14, 2005.

Top of casing elevations for well nests MW-113 through MW-115 and well MW-116 based on SEH survey conducted in May 2010.

Ground surface elevations were not surveyed for wells W-30A&B, MW-114A&B, and MW-115A&B. The ground surface elevations were derived by subtracting 3.5 ft from top of casing elevations (TOC - 3.5).

NM = Not measured.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-3

MEASURED VERTICAL GRADIENT (2022)

Well ID	WDNR Well ID	Ground Surface Elevation (ft MSL)	Top of Casing Elevation (ft MSL)	Top of Screened Interval (ft MSL)	Bottom of Screened Interval (ft MSL)						
						Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)	Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)
W-1	100	892.24	893.58	890.24	885.24		893.58			893.58	
W-1A	103	892.64	893.68	855.64	852.64		893.68	0.0030		893.68	0.0030
W-1D	109	892.64	895.00	849.64	844.64		895.00	0.0350		895.00	0.0350
W-2	112	898.52	899.21	889.52	884.52		899.21			899.21	
W-2B	118	897.92	900.03	847.92	842.92		900.03	0.0197		900.03	0.0197
W-2A	115	898.02	900.17	793.02	788.02		900.17	0.0026		900.17	0.0026
W-3	121	901.66	902.22	891.66	886.66		902.22			902.22	
W-3B	127	902.16	904.14	846.16	841.16		904.14	0.0422		904.14	0.0422
W-3A	124	902.86	903.79	794.86	789.86		903.79	(0.0068)		903.79	(0.0068)
W-7	139	900.53	904.18	888.03	878.03		904.18			904.18	
W-7A	142	900.53	905.33	873.03	868.03		905.33	0.0920		905.33	0.0920
W-17	169	888.32	891.97	886.12	875.32		891.97			891.97	
W-17B	175	888.32	890.38	844.32	839.32		890.38	(0.0409)		890.38	(0.0409)
W-17A	172	888.32	890.11	793.32	788.32		890.11	(0.0053)		890.11	(0.0053)
W-18	178	888.24	890.69	884.74	874.74		890.69			890.69	
W-18A	181	888.24	890.82	838.24	833.24		890.82	0.0030		890.82	0.0030
W-30A	217	872.07	875.57	762.07	757.07		NM			875.57	
W-30B	220	872.83	876.33	749.33	744.33		NM	NM		876.33	0.0597
W-31A	223	900.37	902.86	860.16	855.16		902.86			NM	
W-31B	226	900.37	902.94	839.64	834.64		902.94	0.0039		NM	NM
MW-104	318	888.68	890.46	878.68	873.68		890.46			890.46	
MW-104A	321	888.68	890.74	853.18	848.18		890.74	0.0110		890.74	0.0110
MW-106	330	890.96	892.88	880.96	875.96		892.88			892.88	
MW-106A	333	890.96	892.89	853.96	848.96		892.89	0.0004		892.89	0.0004

TABLE D-3

MEASURED VERTICAL GRADIENT (2022)

Well ID	WDNR Well ID	Ground Surface Elevation (ft MSL)	Top of Casing Elevation (ft MSL)	Top of Screened Interval (ft MSL)	Bottom of Screened Interval (ft MSL)						
						Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)	Depth to Water (ft)	GW Elevation (ft MSL)	Vertical Gradient (ft/ft)
MW-111	357	885.59	888.11	850.59	840.59		888.11			888.11	
MW-111A	360	885.59	888.24	820.59	815.59		888.24	0.0047		888.24	0.0047
MW-111B	363	885.51	888.07	790.51	785.51		888.07	(0.0057)		888.07	(0.0057)
MW-112	366	883.88	886.26	853.88	843.88		886.26			886.26	
MW-112A	369	883.43	886.08	828.43	823.43		886.08	(0.0078)		886.08	(0.0078)
MW-112B	372	883.87	886.29	798.87	793.87		886.29	0.0071		886.29	0.0071
MW-113	375	888.21	890.59	852.21	842.21		890.59			890.59	
MW-113A	378	888.14	890.83	823.14	818.14		890.83	0.0090		890.83	0.0090
MW-113B	381	888.36	890.81	793.36	788.36		890.81	(0.0007)		890.81	(0.0007)
MW-114	384	886.65	890.15	861.70	846.70		890.15			890.15	
MW-114A	387	886.45	889.95	787.25	782.25		889.95	(0.0029)		889.95	(0.0029)
MW-114B	390	886.51	890.01	751.51	746.51		890.01	0.0017		890.01	0.0017
MW-115	393	885.64	889.14	795.44	790.44		889.14			889.14	
MW-115A	396	884.92	888.42	775.80	770.80		888.42	(0.0367)		888.42	(0.0367)
MW-115B	399	885.04	888.54	745.94	740.94		888.54	0.0040		888.54	0.0040

NOTES:

Site datum = feet above mean sea level (ft MSL).

Negative/downward calculated vertical gradients are enclosed in parenthesis and (red).

Top of casing & ground surface elevations for W-1 thru W-29 and MW-101 thru MW-110 taken from ECG Inc.'s 05/02/96 "Site Plan-Waste Research and Reclamation" showing revised monitoring well elevations.

Top of casing elevation for W-30A, W-30B, MW-103, and MW-103A from WRR level survey conducted 9/19/07.

Top of casing and ground surface elevations for W-111 through MW-113B based on table with groundwater monitoring well information prepared by SEH dated Jan 14, 2005.

Top of casing elevations for well nests MW-113 through MW-115 and well MW-116 based on SEH survey conducted in May 2010.

Ground surface elevations were not surveyed for wells W-30A&B, MW-114A&B, and MW-115A&B. The ground surface elevations were derived by subtracting 3.5 ft from top of casing elevations (TOC - 3.5).

NM = Not measured.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-4a

SUMMARY OF DETECTED COMPOUNDS IN W-32 (MAY 2017 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	05/18/17	10/11/17	05/09/18	09/06/18	12/11/18
VOCs (µg/l)							
Acetone	9,000	1,800	<295	<295	610	<274	<274
2-Butanone	4,000	800	<298	<298	150	<294	<294
Chloroform	6	0.6	<250	<250	<13	<127	<127
1,1-Dichloroethane	850	85	127	92.6 J	140	98.0 J	124
1,1-Dichloroethene	7	0.7	359	241	480	317	327
cis-1,2-Dichloroethene	70	7	366	323	230	262	288
1,2-Dichloropropane	5	0.5	<23.3	<23.3	<12	<28.3	<28.3
Ethylbenzene	700	140	<50.0	<50.0	32 J	<21.8	<21.8
Methylene Chloride	5	0.5	<28	<23.3	<28	61.2 J	<58.1
Tetrachloroethene	5	0.5	4,380	3,330	3,900	4,130	3,910
Toluene	800	160	<50.0	<50.0	140	<17.2	<17.2
Trichloroethene	5	0.5	6,480	5,650	8,300	6,700	6,770
1,1,1-Trichloroethane	200	40	7,780	5,430	9,100	6,980	5,860
1,1,2-Trichloroethane	5	0.5	21.1 J	<19.7	<20	<55.2	<55.2
Xylenes (Total)	2,000	400	<150.0	<150.0	137 J	<72.7	<72.7
Ethane	NSE		NA	NA	12	<0.58	<0.58
Ethene			NA	NA	<0.41	<0.52	<0.52
Methane			NA	NA	17	<1.4	<1.4
Total VOCs (µg/l)	NSE		19,513	15,067	23,248	18,548	17,279
Total VOCs - MEE (µg/l)	NSE		19,513	15,067	23,219	18,548	17,279
Other Constituents (mg/l)							
Sulfate	250	125	66.2	NA	NA	57.8	43.3
Alkalinity, Total as CaCO ₃	Not applicable		92.1	NA	NA	104	132
Iron, Dissolved	0.3	0.15	0.0548 J	NA	<0.015	0.0596	0.0471 J
Manganese, Dissolved	0.05	0.025	0.363	NA	<0.16	0.114	0.244
Nitrogen (NO ₂ +NO ₃)	Not applicable		1.6	NA	NA	NA	1.4
Total Organic Carbon	Not applicable		9.1	NA	NA	10.9	9.4
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		10.97	NA	NA	17.45	11.30
Cond. (mS/cm)			0.889	NA	NA	0.985	1.045
DO (mg/l)			8.15	NA	NA	4.53	EE
pH			6.00	NA	NA	5.84	6.07
ORP (mV)			150.3	NA	NA	92.0	54.1

TABLE D-4a

SUMMARY OF DETECTED COMPOUNDS IN W-32 (MAY 2017 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	03/27/19	05/22/19	10/22/19	10/22/19 DUP	03/23/20
VOCs (µg/l)							
Acetone	9,000	1,800	<46	<54	<62	<62	<62
2-Butanone	4,000	800	<29	<26	5.4 J	<5.2	<5.2
Chloroform	6	0.6	26 J	24 J	<4.6	<4.6	7.9 J
1,1-Dichloroethane	850	85	170	160	33	29	64
1,1-Dichloroethene	7	0.7	810	450	75	67	200
cis-1,2-Dichloroethene	70	7	290	350	180	160	230
1,2-Dichloropropane	5	0.5	37 J	<24	<4.8	<4.8	8.2 J
Ethylbenzene	700	140	<20	<17	<3.4	<3.4	<3.4
Methylene Chloride	5	0.5	<28	<43	<8.6	<8.6	<8.6
Tetrachloroethene	5	0.5	4,100	4,300	2,800	2,500	3,100
Toluene	800	160	<18	<22	<4.5	<4.5	<4.5
Trichloroethene	5	0.5	8,600	7,600	2,300	2,000	4,200
1,1,1-Trichloroethane	200	40	9,400	8,600	2,100	2,000	3,700
1,1,2-Trichloroethane	5	0.5	<20	<23	<4.6	<4.6	<4.6
Xylenes (Total)	2,000	400	<67	<56	<11.2	<11.2	<8.1
Ethane	NSE		<0.21	<0.21	<1.5	NA	<1.5
Ethene			<0.41	<0.41	<2.7	NA	<2.7
Methane			4.0 J	<0.64	3.6 J	NA	<3.3
Total VOCs (µg/l)	NSE		23,437	21,484	7,497	6,756	11,510
Total VOCs - MEE (µg/l)	NSE		23,433	21,484	7,493	6,756	11,510
Other Constituents (mg/l)							
Sulfate	250	125	87	65	11	NA	27
Alkalinity, Total as CaCO ₃	Not applicable		110	120	130	NA	150
Iron, Dissolved	0.3	0.15	<0.015	NA	<0.050	NA	<0.050
Manganese, Dissolved	0.05	0.025	0.77	NA	<0.0025	NA	0.0053 J
Nitrogen (NO ₂ +NO ₃)	Not applicable		1.6	NA	4.0	NA	2.7
Total Organic Carbon	Not applicable		14	15	8.2	NA	8.7
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		NA	9.49	16.15	NA	6.76
Cond. (mS/cm)			NA	1.243	0.348	NA	0.665
DO (mg/l)			NA	8.16	4.64	NA	4.18
pH			NA	6.03	6.42	NA	6.48
ORP (mV)			NA	108.9	91.8	NA	70.1

TABLE D-4a

SUMMARY OF DETECTED COMPOUNDS IN W-32 (MAY 2017 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	08/25/20	09/22/20	06/02/21	10/07/21	
VOCs (µg/l)							
Acetone	9,000	1,800	<31	<12	94 J	<86.4	
Benzene	5	0.5	<2.3	<0.92	3.4 J	<3.0	
2-Butanone	4,000	800	<2.6	<1.0	<2.6	<65.2	
Chloroethane	400	80	<3.4	<1.4	30	<13.8	
Chloroform	6	0.6	<2.3	1.5 J	27	<11.8	
1,2-Dichlorobenzene	600	60	<1.6	<0.64	3.3 J	<3.3	
1,2-Dichloroethane	5	0.5	<2.2	<0.88	38	<2.9	
1,1-Dichloroethane	850	85	7.2 J	2.8 J	2,600	65.7	
1,1-Dichloroethene	7	0.7	21	9.3	1,300	96.5	
cis-1,2-Dichloroethene	70	7	35	20	12,000	858	
trans-1,2-Dichloroethene	100	20	<2.4	<0.96	12	<5.3	
1,2-Dichloropropane	5	0.5	<2.4	<0.96	90	13.8	
Ethylbenzene	700	140	<1.7	<0.68	<1.7	<3.3	
Methylene Chloride	5	0.5	<4.3	<1.7	14	<3.2	
Tetrachloroethene	5	0.5	770	430	730	1,460	
Toluene	800	160	<2.2	<0.90	<2.2	<2.9	
Trichloroethene	5	0.5	690	310	1,900	2,110	
1,1,1-Trichloroethane	200	40	560	200	8,400	1,690	
1,1,2-Trichloroethane	5	0.5	<2.3	<0.92	58	16.1 J	
Vinyl chloride	0.2	0.02	<2.6	<1.1	260	11.1	
Xylenes (Total)	2,000	400	<4.0	<1.6	2.2 J	<10.5	
Ethane	NSE		<1.5	<1.5	3.1 J	<1.5	
Ethene			<1.7	<1.7	110	<1.7	
Methane			<2.0	<2.0	3.7 J	<2.0	
Total VOCs (µg/l)	NSE		2,083	974	27,679	6,321	
Total VOCs - MEE (µg/l)	NSE		2,083	974	27,562	6,321	
Other Constituents (mg/l)							
Sulfate	250	125	5.8	NA	35	13	
Alkalinity, Total as CaCO ₃	Not applicable		93	NA	360	52	
Iron, Dissolved	0.3	0.15	<0.050	NA	3.0	0.19	
Manganese, Dissolved	0.05	0.025	<0.0025	NA	10	0.0084	
Nitrogen (NO ₂ +NO ₃)	Not applicable		4.1	NA	0.75	10	
Total Organic Carbon	Not applicable		2.7	NA	19	4.8	
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		17.92	NA	11.61	17.7	
Cond. (mS/cm)			0.183	NA	3.518	0.313	
DO (mg/l)			2.08	NA	NA	6.4	
pH			7.45	NA	NA	6.4	
ORP (mV)			142.5	NA	NA	106.9	

TABLE D-4a

SUMMARY OF DETECTED COMPOUNDS IN W-32 (MAY 2017 - OCTOBER 2021)

NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this situation.

Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

DUP = Duplicate sample.

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

MEE = Methane, ethane, and ethene detected concentrations, combined.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (MAY 2017 - SEPTEMBER 2018)

Group (units) Substance/Parameter	NR 140 ES	NR 140 PAL	Sample/Measurement Date				
			05/18/17	5/18/17 DUP	10/11/17	5/10/18	09/06/18
VOCs (µg/l)							
Acetone	9000	1,800	<369	<369	<369	40	<343
Benzene	5	0.5	<62.5	<62.5	<62.5	3.7	<30.8
2-Butanone (MEK)	4000	800	<372	<372	<372	<0.58	<367
sec-Butylbenzene	NSE	NSE	<273	<273	<273	0.86 J	<106
Chlorobenzene	NSE	NSE	<62.5	<62.5	<62.5	1.1	<88.9
Chloroform	6	0.6	<312	<312	<312	16	<159
Chloroethane	400	80	180	212	<46.8	<0.29	198 J
Chloromethane	30	3	<62.5	<62.5	<62.5	0.40 J	<274
1,1-Dichloroethane	850	85	3,110	3,310	2,280	2,000	2,270
1,2-Dichloroethane	5	0.5	21.3 J	<21.0	<21.0	16	<35.0
1,1-Dichloroethene	7	0.7	78.2 J	95.9 J	100 J	61	87.1 J
cis-1,2-Dichloroethene	70	7	8,800	9,650	8,640	8,900	9,810
1,2-Dichlorobenzene	600	60	<62.5	<62.5	<62.5	12	<88.2
1,3-Dichlorobenzene	600	120	<62.5	<62.5	<62.5	0.85 J	<78.5
1,4-Dichlorobenzene	75	15	<62.5	<62.5	<62.5	2.2	<118
Dichlorodifluoromethane	1000	200	<28.0	<28.0	<28.0	1.9	<62.5
trans-1,2-Dichloroethene	100	20	39.6 J	43.2 J	39.2 J	99	<136
1,2-Dichloropropane	5	0.5	<29.1	<29.1	<29.1	15	<35.3
Ethylbenzene	700	140	<62.5	<62.5	<62.5	98	100 J
Isopropylbenzene	NSE	NSE	<17.9	<17.9	<17.9	6.5	<49.1
p-Isopropyltoluene	NSE	NSE	<62.5	<62.5	<62.5	1.7	<100
4-Methyl-2-pentanone	500	50	<268	<268	<268	51	<191
Methylene Chloride	5	0.5	52.9 J	60.7 J	<29.1	220	297 J
Methyl tert-butyl ether	60	12	<21.8	<21.8	<21.8	2.6	<156
Naphthalene	100	10	<312	<312	<312	10	<147
n-Propylbenzene	NSE	NSE	<62.5	<62.5	<62.5	8.4	<101
Tetrachloroethene	5	0.5	214	210	<62.5	280	293
Toluene	800	160	<62.5	<62.5	<62.5	160	120 J
Trichloroethene	5	0.5	215	199	62.1 J	260	212
1,1,1-Trichloroethane	200	40	4,330	4,910	2,230	2,000	2,590
1,1,2-Trichloroethane	5	0.5	34.8 J	29.1 J	<24.7	18	<69.0
Trimethylbenzenes, Total	480	96	<125	<125	<125	102	<214
Vinyl chloride	0.2	0.02	88.9 J	96.2 J	221	160	212
Xylenes (Total)	2,000	400	<187.5	<187.5	<223.2 J	490	440 J
Ethane	NSE	NSE	NA	NA	NA	8.7	1.5 J
Ethene			NA	NA	NA	39	6.4
Methane			NA	NA	NA	73	11.6
Total VOCs (µg/l)	NSE	NSE	17,165	18,816	13,572	15,159	16,649
Other Constituents (mg/l)							
Sulfate	250	125	25.8	NA	NA	NA	39.4
Alkalinity, Total as CaCO ₃	Not applicable		266	NA	NA	NA	256
Iron, Dissolved	0.3	0.15	24.5	NA	NA	120	54.5
Manganese, Dissolved	0.05	0.025	1.18	NA	NA	7.5	4.12
Nitrogen (NO ₂ +NO ₃)	Not applicable		<0.095	NA	NA	NA	NA
Total Organic Carbon	Not applicable		15.1	NA	NA	NA	10.8
RNA Field Parameters (units as shown)							
Temp (°C)	NSE	NSE	10.88	NA	NA	NA	17.16
Cond. (mS/cm)			1.250	NA	NA	NA	6.039
DO (mg/l)			8.27	NA	NA	NA	1.63
pH			6.45	NA	NA	NA	6.31
ORP (mV)			-45.4	NA	NA	NA	23.8

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (DECEMBER 2018 - OCTOBER 2021)

Group (units)	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	12/11/18	03/27/19	10/22/19	03/23/20	08/25/20
VOCs (µg/l)							
Acetone	9000	1,800	<137	1,700	<62	<62	<310
Benzene	5	0.5	<12.3	<3.0	5.0 J	<4.6	<23
2-Butanone (MEK)	4000	800	<147	180	13 J	<5.2	<26
sec-Butylbenzene	NSE	NSE	<42.4	<2.9	<3.0	<3.0	<15
Carbon Tetrachloride	5	0.5	<8.3	<3.1	<4.0	<4.0	20 J
Chlorobenzene	NSE	NSE	<35.5	6.0 J	<4.0	<4.0	<20
Chloroform	6	0.6	<63.7	13	19	13 J	<23
Chloroethane	400	80	<67.1	60	310	170	210
Chloromethane	30	3	<109	<1.7	<8.3	<8.3	<42
1,1-Dichloroethane	850	85	1,220	550	2,100	1,500	2,600
1,2-Dichloroethane	5	0.5	14.5 J	<1.7	12 J	11 J	<22
1,1-Dichloroethene	7	0.7	37.2 J	12	70	75	90
cis-1,2-Dichloroethene	70	7	3,240	2,400	4,500	3,400	8,300
1,2-Dichlorobenzene	600	60	<35.3	<2.2	<3.2	<3.2	16 J
1,3-Dichlorobenzene	600	120	<31.4	<2.9	<3.3	<3.3	<16
1,4-Dichlorobenzene	75	15	<47.2	<2.1	<3.5	<3.5	<18
Dichlorodifluoromethane	1000	200	<25.0	<1.3	<6.8	<6.8	<34
trans-1,2-Dichloroethene	100	20	<54.5	11	30	20	28 J
1,2-Dichloropropane	5	0.5	<14.1	4.7 J	14 J	9.6 J	<24
Ethylbenzene	700	140	225	10 J	6.8 J	17	230
Isopropylbenzene	NSE	NSE	<19.6	<3.1	<3.5	<3.5	<18
p-Isopropyltoluene	NSE	NSE	<40.0	<1.4	<2.6	<2.6	<13
4-Methyl-2-pentanone	500	50	<76.6	<1.1	<5.2	<5.2	<26
Methylene Chloride	5	0.5	92.2 J	85	33	28 J	1,100
Methyl tert-butyl ether	60	12	<62.3	3.1 J	<4.5	<4.5	<22
Naphthalene	100	10	<58.8	<1.8	<7.7	<7.7	<38
n-Propylbenzene	NSE	NSE	<40.5	<2.4	<4.8	<4.8	<24
Tetrachloroethene	5	0.5	19.5 J	1,200	190	230	28 J
Toluene	800	160	284	15	6.5 J	10 J	380
Trichloroethene	5	0.5	<12.8	790	120	250	30 J
1,1,1-Trichloroethane	200	40	686	1,100	2,500	2,100	2,000
1,1,2-Trichloroethane	5	0.5	<27.6	<4.0	23	14 J	26 J
1,2,4-Trimethylbenzene	NSE	NSE	95.7 J	5.1 J	8.5 J	15 J	180
1,3,5-Trimethylbenzene	NSE	NSE	<43.7	<2.9	<6.5	<6.5	50 J
Trimethylbenzenes, Total	480	96	<139.4 J	<8.0 J	<15.0 J	<21.5 J	230 J
Vinyl chloride	0.2	0.02	218	23	66	100	350
Xylenes (Total)	2,000	400	723	41 J	35 J	66	1,200

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (DECEMBER 2018 - OCTOBER 2021)

Ethane	NSE		5.1 J	<0.21	1.8 J	2.0 J	3.7 J
Ethene	NSE		15.6	<0.41	<2.7	4.9 J	16
Methane	NSE		20.2	5.5	7.4	8.9	70
Total VOCs (µg/l)	NSE	NSE	6,896	8,214	10,071	8,044	16,928
Other Constituents (mg/l)							
Sulfate	250	<i>125</i>	NA	NA	55	NA	19
Alkalinity, Total as CaCO ₃	Not applicable		NA	NA	190	230	240
Iron, Dissolved	0.3	<i>0.15</i>	NA	NA	10	NA	160
Manganese, Dissolved	0.05	<i>0.025</i>	NA	NA	2.1	NA	11
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	NA	0.017 J	NA	0.070
Total Organic Carbon	Not applicable		NA	NA	34	20	36
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		11.56	NA	15.43	7.72	17.38
Cond. (mS/cm)	NSE		1.349	NA	3.881	2.306	3.855
DO (mg/l)	NSE		EE	NA	0.84	1.87	1.32
pH	NSE		6.40	NA	6.23	6.57	8.17
ORP (mV)	NSE		-90.0	NA	-20.7	36.2	-135.5

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (DECEMBER 2018 - OCTOBER 2021)

Group (units)	NR 140	NR 140	Sample/Measurement Date			
	ES	PAL	06/02/21	10/07/21		
VOCs (µg/l)						
Acetone	9000	1,800	330	<432		
Benzene	5	0.5	<4.6	<14.8		
2-Butanone (MEK)	4000	800	81	<326		
Carbon Tetrachloride	5	0.5	<4.0	<18.5		
Chlorobenzene	NSE	NSE	<4.0	<42.8		
Chloroform	6	0.6	<4.6	<59.1		
Chloroethane	400	80	770	704		
2-Chlorotoluene	NSE	NSE	3.8 J	<44.5		
1,1-Dichloroethane	850	85	1,900	1,050		
1,2-Dichloroethane	5	0.5	56	42.1 J		
1,1-Dichloroethene	7	0.7	35	<29.1		
cis-1,2-Dichloroethene	70	7	4,100	2,180		
1,2-Dichlorobenzene	600	60	24	23.1 J		
trans-1,2-Dichloroethene	100	20	18	<26.4		
1,2-Dichloropropane	5	0.5	19	<22.4		
Ethylbenzene	700	140	290	260		
Isopropylbenzene	NSE	NSE	13	<50.0		
4-Methyl-2-pentanone	500	50	120	<298		
Methylene Chloride	5	0.5	920	437		
Methyl tert-butyl ether	60	12	<4.5	<56.5		
Naphthalene	100	10	17 J	<56.5		
n-Propylbenzene	NSE	NSE	15 J	<17.3		
Tetrachloroethene	5	0.5	6.4 J	<20.4		
Toluene	800	160	940	770		
Trichloroethene	5	0.5	5.9 J	<16.0		
1,1,1-Trichloroethane	200	40	400	207		
1,1,2-Trichloroethane	5	0.5	27	22.7 J		
1,2,4-Trimethylbenzene	NSE	NSE	150	69.1		
1,3,5-Trimethylbenzene	NSE	NSE	45	24.5 J		
Trimethylbenzenes, Total	480	96	195	93.6		
Vinyl chloride	0.2	0.02	480	292		
Xylenes (Total)	2,000	400	1,550	1,210		

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (DECEMBER 2018 - OCTOBER 2021)

Ethane	NSE		23	21			
Ethene			51	33			
Methane			270	680			
Total VOCs (µg/l)	NSE	NSE	12,660	8,026			
Other Constituents (mg/l)							
Sulfate	250	<i>125</i>	4.7	5.2			
Alkalinity, Total as CaCO ₃	Not applicable		180	190			
Iron, Dissolved	0.3	<i>0.15</i>	230	180			
Manganese, Dissolved	0.05	<i>0.025</i>	12	9.6			
Nitrogen (NO ₂ +NO ₃)	Not applicable		0.15	0.074			
Total Organic Carbon	Not applicable		43	46			
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		11.61	17.28			
Cond. (mS/cm)			3.518	3.440			
DO (mg/l)			NA	4.9			
pH			NA	6.4			
ORP (mV)			NA	-117			

TABLE D-4b

SUMMARY OF DETECTED COMPOUNDS IN W-33 (MAY 2017 - OCTOBER 2021)

NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this situation.

Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

DUP = Duplicate sample.

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

TABLE D-4c

SUMMARY OF DETECTED COMPOUNDS IN W-34 (AUGUST 2017 - OCTOBER 2021)

Group (units)	NR 140 ES	NR 140 PAL	Sample/Measurement Date				
			08/01/17	10/11/17	10/11/17 DUP	05/09/18	08/15/18
VOCs (µg/l)							
Acetone	9000	1,800	<738	<369	<369	<46	<343
Benzene	5	0.5	<125	<62.5	<62.5	<15	<30.8
Chloroethane	400	80	<93.6	<46.8	<46.8	<15	<168
Chloroform	6	0.6	<625	<312	<312	96	<159
1,1-Dichloroethane	850	85	994	1,420	1,510	1,200	2,110
1,2-Dichloroethane	5	0.5	135 J	134	128	140	107 J
1,1-Dichloroethene	7	0.7	2,440	2,150	2,470	1,900	2,040
cis-1,2-Dichloroethene	70	7	23,800	28,900	29,800	7,800	35,200
trans-1,2-Dichloroethene	100	20	<64.1	<32.1	<32.1	<14	<136
1,2-Dichlorobenzene	600	60	<125	83.8 J	86.7 J	48	<88.2
1,2-Dichloropropane	5	0.5	367	413	403	340	255
Ethylbenzene	700	140	<125	<62.5	<62.5	110	<27.3
4-Methyl-2-pentanone	500	50	<535	<268	<268	68	<191
Methylene Chloride	5	0.5	704	1,640	1,670	3,300	1,150
Tetrachloroethene	5	0.5	3,190	5,440	5,850	9,800	46.0 J
Toluene	800	160	<125	213	195	800	302 J
Trichloroethene	5	0.5	17,900	24,900	26,000	39,000	1,530
1,1,1-Trichloroethane	200	40	30,900	28,300	31,000	31,000	1,620
1,1,2-Trichloroethane	5	0.5	937	1,140	1,010	870	632
Vinyl chloride	0.2	0.02	<43.9	<21.9	<21.9	<10	103 J
m,p-Xylenes	NSE	NSE	<250	<125	<125	390	<58.2
o-Xylene	NSE	NSE	<125	105 J	120 J	250	<32.7
Xylenes (Total)	2,000	400	<375	<230 J	<245 J	640	<90.9
Ethane	NSE		0.76 J	NA	NA	<0.21	NA
Ethene			0.57 J	NA	NA	3.8 J	NA
Methane			<1.4	NA	NA	9.8	NA
Total VOCs (µg/l)	NSE		81,368	94,839	100,243	97,126	45,095
Total VOCs - MEE (µg/l)	NSE		81,367	94,839	100,243	97,112	45,095
Other Constituents (mg/l)							
Sulfate	250	125	53.4	NA	NA	NA	NA
Alkalinity, Total as CaCO ₃	Not applicable		76.8	NA	NA	NA	NA
Iron, Dissolved	0.3	0.15	19.4	NA	NA	1.1	NA
Manganese, Dissolved	0.05	0.025	NA	NA	NA	4.4	NA
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	NA	NA	0.30	NA
Total Organic Carbon	Not applicable		NA	NA	NA	28	NA
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		NA	14.78	NA	13.80	13.68
Cond. (mS/cm)			NA	4.924	NA	6.067	6.001
DO (mg/l)			NA	3.68	NA	8.23	0.46
pH			NA	5.64	NA	5.23	5.84
ORP (mV)			NA	183.5	NA	142.7	-92.2

SUMMARY OF DETECTED COMPOUNDS IN W-34 (AUGUST 2017 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	09/06/18	12/11/18	03/27/19	05/23/19	10/23/19
VOCs (µg/l)							
Acetone	9000	1,800	<343	<343	110	<11	<310
Benzene	5	0.5	<30.8	<30.8	<30	5.7 J	<23
Chloroethane	400	80	<168	<168	<29	6.9 J	<34
Chloroform	6	0.6	<159	<159	44 J	43	32 J
1,1-Dichloroethane	850	85	1,720	2,110	1,400	810	1,100
1,2-Dichloroethane	5	0.5	102 J	100 J	<17	63	72 J
1,1-Dichloroethene	7	0.7	1,190	787	1,100	820	430
cis-1,2-Dichloroethene	70	7	32,400	25,600	31,000	27,000	17,000
trans-1,2-Dichloroethene	100	20	<136	<136	<28	310	<24
1,2-Dichlorobenzene	600	60	<88.2	<88.2	<22	4.4 J	<16
1,2-Dichloropropane	5	0.5	207	196	220	180	140
Ethylbenzene	700	140	<27.3	36.3 J	61	68	34 J
4-Methyl-2-pentanone	500	50	<191	<191	<11	59	45 J
Methylene Chloride	5	0.5	1,080	636	390	230	350
Tetrachloroethene	5	0.5	<40.8	<40.8	200	520	<20
Toluene	800	160	82.3 J	53.5 J	56	32	48 J
Trichloroethene	5	0.5	110 J	<31.9	240	800	<22
1,1,1-Trichloroethane	200	40	2,830	5,080	9,300	9,600	3,900
1,1,2-Trichloroethane	5	0.5	588 J	509 J	800	600	600
Vinyl chloride	0.2	0.02	66.6 J	2,890	3,400	3,800	4,800
m,p-Xylenes	NSE	NSE	<58.2	66.6 J	170	190	94 J
o-Xylene	NSE	NSE	<32.7	37.6 J	72	93	42 J
Xylenes (Total)	2,000	400	<90.9	104.2 J	242	283	136 J
Ethane	NSE		32.1	17.6	16	52	36
Ethene			30.2	3,080	600	270	1,500
Methane			18.0	<1.4	<0.64	6.4	10
Total VOCs (µg/l)	NSE		40,456	41,200	49,179	45,563	30,233
Total VOCs - MEE (µg/l)	NSE		40,376	38,102	48,563	45,235	28,687
Other Constituents (mg/l)							
Sulfate	250	125	10.1 J	13.8 J	12	23	2.0 J
Alkalinity, Total as CaCO ₃	Not applicable		194	87.2	120	91	250
Iron, Dissolved	0.3	0.15	131	156	99	NA	88
Manganese, Dissolved	0.05	0.025	7.97	7.28	6.0	NA	4.8
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	ND	0.15	NA	0.090
Total Organic Carbon	Not applicable		75.0	50.4	35	37	76
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		15.40	12.15	NA	9.94	16.82
Cond. (mS/cm)			5.668	6.076	NA	6.658	5.878
DO (mg/l)			0.47	EE	NA	1.78	1.74
pH			6.48	6.66	NA	6.27	6.47
ORP (mV)			-44.3	-158.6	NA	-161.1	-111.3

SUMMARY OF DETECTED COMPOUNDS IN W-34 (AUGUST 2017 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	03/23/20	08/25/20	06/02/21	10/07/21	
VOCs (µg/l)							
Acetone	9000	1,800	<310	<310	<31	<21.6	
Benzene	5	0.5	<23	<23	<2.3	<0.74	
2-Butanone	4,000	800	<26	<26	30	<16.3	
Bromobenzene	NSE	NSE	<19	<19	25	<0.90	
Chloroethane	400	80	<34	<34	29	3.8	J
Chloroform	6	0.6	30	<23	4.0	<3.0	J
1,1-Dichloroethane	850	85	780	530	290	144	
1,2-Dichloroethane	5	0.5	74	36	25	14.3	J
1,1-Dichloroethene	7	0.7	810	270	3.8	<1.5	J
cis-1,2-Dichloroethene	70	7	24,000	11,000	410	42.6	
trans-1,2-Dichloroethene	100	20	<24	<24	<2.4	<1.3	
1,2-Dichlorobenzene	600	60	<16	16	10	10.8	J
1,2-Dichloropropane	5	0.5	140	58	21	9.1	J
1,4-Dichlorobenzene	75	15	<18	<18	2.7	2.3	J
Ethylbenzene	700	140	29	20	15	15.8	J
4-Methyl-2-pentanone	500	50	<26	<26	<2.6	<14.9	
Methylene Chloride	5	0.5	230	<43	22	5.4	J
Tetrachloroethene	5	0.5	28	<20	<2.0	<1.0	J
Toluene	800	160	46	31	9.7	4.2	J
Trichloroethene	5	0.5	32	22	2.6	0.87	J
1,1,1-Trichloroethane	200	40	7,000	4,800	750	326	
1,1,2-Trichloroethane	5	0.5	890	520	200	207	
1,2,4-Trimethylbenzene	NSE	NSE	<22	<22	3.8	2.2	J
1,3,5-Trimethylbenzene	NSE	NSE	<32	<32	<3.2	1.1	J
Trimethylbenzenes, Total	480	96	<54	<54	3.8	3.3	J
Vinyl chloride	0.2	0.02	2,200	1,600	390	92.6	
m,p-Xylenes	NSE	NSE	67	62	31	37.1	J
o-Xylene	NSE	NSE	41	35	24	27.8	J
Xylenes (Total)	2,000	400	110	97	55	64.9	J
Ethane	NSE		23	8.5	8.1	6.0	J
Ethene			530	380	650	280	J
Methane			<16	86	3,400	1,700	J
Total VOCs (µg/l)	NSE		36,950	19,475	6,357	2,933	
Total VOCs - MEE (µg/l)	NSE		36,397	19,000	2,299	947	
Other Constituents (mg/l)							
Sulfate	250	125	NA	0.25	2.5	0.64	J
Alkalinity, Total as CaCO ₃	Not applicable		340	430	210	140	
Iron, Dissolved	0.3	0.15	75	110	87	93	
Manganese, Dissolved	0.05	0.025	4.1	4.9	11	6.0	
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	0.081	0.12	0.076	
Total Organic Carbon	Not applicable		44	49	39	89	
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		8.98	14.94	12.34	15.17	
Cond. (mS/cm)			5.394	5.978	5.616	5.770	
DO (mg/l)			1.55	1.33	NA	3.3	
pH			6.32	7.71	NA	6.3	
ORP (mV)			-153.1	-128.6	NA	-110	

SUMMARY OF DETECTED COMPOUNDS IN W-34 (AUGUST 2017 - OCTOBER 2021)NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

DUP = Duplicate sample.

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

MEE = Methane, ethane, and ethene detected concentrations, combined.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-4d

SUMMARY OF DETECTED COMPOUNDS IN SVE-4 GROUNDWATER (MAY 2017 - JUNE 2021)

Group (units) Substance/Parameter	NR 140 ES	NR 140 PAL	Sample/Measurement Date				
			06/05/18	08/15/18	09/06/18	12/11/18	03/27/19
VOCs (µg/l)							
Acetone	9000	1,800	6,880 J	<1,100	<1,100	<274	<46
1,2-Dichlorobenzene	600	60	<312	<282	<282	<70.5	26
1,1-Dichloroethane	850	85	2,270	1,070	995	668	290
1,2-Dichloroethane	5	0.5	338 J	<112	<112	120	<8.3
1,1-Dichloroethene	7	0.7	2,160	127 J	255 J	65.9 J	91
cis-1,2-Dichloroethene	70	7	82,300	23,700	21,500	17,400	2,100
1,2-Dichloropropane	5	0.5	445 J	<113	<113	59.9 J	72
4-Methyl-2-pentanone	500	50	4,170	<613	<613	<153	<5.7
Methylene Chloride	5	0.5	4,680	728 J	1,620 J	449 J	890
Methyl tert-butyl ether	60	12	<109	<498	<498	<125	30
Tetrachloroethene	5	0.5	15,600	551	518	70.5 J	5,500
Toluene	800	160	515 J	<68.8	69.2 J	62.5 J	33
Trichloroethene	5	0.5	13,200	341 J	339 J	151	14,000
1,1,1-Trichloroethane	200	40	29,800	315 J	456	302	4,200
1,1,2-Trichloroethane	5	0.5	8,180	<221	<221	1,300	2,400
Vinyl chloride	0.2	0.02	152 J	164 J	259 J	669	100
m,p-Xylenes	NSE	NSE	<625	<186	<186	<46.5	<49
o-Xylene	NSE	NSE	<312	<105	<105	71.8 J	38
Xylenes (Total)	2,000	400	<938	<600	<600	<150	<66
Ethane	NSE		NA	NA	306	4.3 J	<0.21
Ethene			NA	NA	409	10.3	260
Methane			NA	NA	160	177	380
Total VOCs (µg/l)	NSE		170,690	26,996	26,886	21,581	30,410
Total VOCs - MEE (µg/l)	NSE		170,690	26,996	26,011	21,390	29,770
Other Constituents (mg/l)							
Sulfate	250	125	NA	NA	<5.0	NA	NA
Alkalinity, Total as CaCO ₃	Not applicable		NA	NA	355	NA	NA
Iron, Dissolved	0.3	0.15	NA	NA	689	NA	NA
Manganese, Dissolved	0.05	0.025	NA	NA	9.81	NA	NA
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	NA	NA	NA	NA
Total Organic Carbon	Not applicable		NA	NA	2,570	NA	NA
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		20.5	14.93	14.81	11.78	NA
Cond. (mS/cm)			1.462	3.867	3.544	3.026	NA
DO (mg/l)			1.65	0.30	1.68	EE	NA
pH			6.8	5.9	6.28	6.59	NA
ORP (mV)			-155.7	-112.9	-54.1	-129.4	NA

TABLE D-4d

SUMMARY OF DETECTED COMPOUNDS IN SVE-4 GROUNDWATER (MAY 2017 - JUNE 2021)

Group (units) Substance/Parameter	NR 140 ES	NR 140 PAL	Sample/Measurement Date				
			07/02/19	10/23/19	03/23/20	08/25/20	06/02/21
VOCs (µg/l)							
Acetone	9000	1,800	<274	<160	<160	<120	<120
2-Butanone (MEK)	4000	800	<294	<13	<13	<10	160
Chloroform	6	0.6	<127	<12	<12	<9.2	13 J
1,2-Dichlorobenzene	600	60	<70.5	<8.0	8.8 J	10 J	24
1,4-Dichlorobenzene	75	15	<94.4	<8.8	<8.8	<7.0	7.4 J
1,1-Dichloroethane	850	85	227	140	490	130	98
1,2-Dichloroethane	5	0.5	<28.0	23 J	150	19 J	18 J
1,1-Dichloroethene	7	0.7	<24.5	38	26 J	26 J	65
cis-1,2-Dichloroethene	70	7	4,580	890	5,400	480	1,100
1,2-Dichloropropane	5	0.5	<28.3	<12	32 J	37	50
Ethylbenzene	700	140	<21.8	<8.5	<8.5	<6.8	7.2 J
4-Methyl-2-pentanone	500	50	<153	<13	<13	<10	<10
Methylene Chloride	5	0.5	<58.1	200	160	37 J	64
Methyl tert-butyl ether	60	12	<125	21 J	18 J	10 J	10 J
Tetrachloroethene	5	0.5	810	5,300	21 J	3,200	11,000
Toluene	800	160	<17.2	26 J	<11	<9.0	<9.0
Trichloroethene	5	0.5	1,830	9,900	120	5,900	8,800
1,1,1-Trichloroethane	200	40	1,360	4,500	620	2,800	4,800
1,1,2-Trichloroethane	5	0.5	1,140	1,100	500	630	880
Vinyl chloride	0.2	0.02	246	<13	180	33 J	<11
o-Xylene	NSE	NSE	<26.2	26 J	28	<6.2	6.4 J
Xylenes (Total)	2,000	400	<150	50 J	28	<16	6.4 J
Ethane	NSE		10.2	2.8 J	110 J	4.5 J	NA
Ethene	NSE		75.8	<2.7	1,100	47	NA
Methane	NSE		47.6	<3.3	2,600	400	NA
Total VOCs (µg/l)	NSE		10,327	22,191	11,564	13,764	27,103
Total VOCs - MEE (µg/l)	NSE		10,193	22,188	7,754	13,312	27,103
Other Constituents (mg/l)							
Sulfate	250	125	7.3 J	22	1.3 J	44	NA
Alkalinity, Total as CaCO ₃	Not applicable		140	340	NA	320	NA
Iron, Dissolved	0.3	0.15	14.3	2.6	NA	1.3	NA
Manganese, Dissolved	0.05	0.025	1.51	0.23	NA	0.044	NA
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	0.11	NA	6.0	NA
Total Organic Carbon	Not applicable		64.8	220	47	94	NA
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		NA	13.53	9.08	19.53	17.49
Cond. (mS/cm)	NSE		2.280	1.361	5.807	2.101	4.373
DO (mg/l)	NSE		0.82	4.71	1.58	2.60	NA
pH	NSE		6.8	7.09	7.48	7.76	NA
ORP (mV)	NSE		-93	16.2	-203.8	-17.3	NA

TABLE D-4d

SUMMARY OF DETECTED COMPOUNDS IN SVE-4 GROUNDWATER (MAY 2017 - JUNE 2021)

NOTES:

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Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

MEE = Methane, ethane, and ethene detected concentrations, combined.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-4e

SUMMARY OF DETECTED COMPOUNDS IN SVE-5 GROUNDWATER (OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date			
	ES	PAL	10/07/21			
VOCs (µg/l)						
Benzene	5	0.5	1.4	J		
sec-Butylbenzene	NSE	NSE	2.1	J		
Chloroethane	400	80	130			
1,2-Dichlorobenzene	600	60	14.0			
1,1-Dichloroethane	850	85	51.9			
cis-1,2-Dichloroethene	70	7	29.2			
Ethylbenzene	700	140	1,070			
Isopropylbenzene	NSE	NSE	23.4			
Methylene Chloride	5	0.5	5.1	J		
Naphthalene	100	10	22.8			
Toluene	800	160	532			
Trichloroethene	5	0.5	1.0	J		
1,1,1-Trichloroethane	200	40	2.9			
1,2,4-Trimethylbenzene	NSE	NSE	183			
1,3,5-Trimethylbenzene	NSE	NSE	48.9			
Trimethylbenzenes, Total	480	96	231.9			
Vinyl chloride	0.2	0.02	4.3			
m,p-Xylenes	NSE	NSE	3,180			
o-Xylene	NSE	NSE	574			
Xylenes (Total)	2,000	400	3,760			
Ethane	NSE		56			
Ethene			46			
Methane			8,300			
Total VOCs (µg/l)	NSE	NSE	18,270			
Other Constituents (mg/l)						
Sulfate	250	125	0.29	J		
Alkalinity, Total as CaCO ₃	Not applicable		190			
Iron, Dissolved	0.3	0.15	80			
Manganese, Dissolved	0.05	0.025	4.2			
Nitrogen (NO ₂ +NO ₃)	Not applicable		0.061			
Total Organic Carbon	Not applicable		23			
RNA Field Parameters (units as shown)						
Temp (°C)	NSE		16.00			
Cond. (mS/cm)			1.607			
DO (mg/l)			3.30			
pH			6.60			
ORP (mV)			-146.0			

TABLE D-4e

SUMMARY OF DETECTED COMPOUNDS IN SVE-5 GROUNDWATER (OCTOBER 2021)

NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this situation.

Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-4f

SUMMARY OF DETECTED COMPOUNDS IN SVE-6 GROUNDWATER (MARCH 2020)

Group (units)	NR 140	NR 140	Sample/Measurement Date			
Substance/Parameter	ES	PAL	03/23/20			
VOCs (µg/l)						
Acetone	9000	1,800	8.9 J			
Chloroform	6	0.6	4.0			
1,1-Dichloroethane	850	85	85			
1,1-Dichloroethene	7	0.7	93			
cis-1,2-Dichloroethene	70	7	1,200			
trans-1,2-Dichloroethene	100	20	2.9			
1,2-Dichloropropane	5	0.5	4.5			
Methyl tert-butyl ether	60	12	0.83 J			
Tetrachloroethene	5	0.5	900			
Trichloroethene	5	0.5	1,300			
1,1,1-Trichloroethane	200	40	1,500			
Vinyl chloride	0.2	0.02	15			
Ethane	NSE		4.8 J			
Ethene			4.9 J			
Methane			41			
Total VOCs (µg/l)	NSE	NSE	5,165			
Other Constituents (mg/l)						
Sulfate	250	125	7.1			
Alkalinity, Total as CaCO ₃	Not applicable		NA			
Iron, Dissolved	0.3	0.15	NA			
Manganese, Dissolved	0.05	0.025	NA			
Nitrogen (NO ₂ +NO ₃)	Not applicable		1.5			
Total Organic Carbon	Not applicable		NA			
RNA Field Parameters (units as shown)						
Temp (°C)	NSE		7.63			
Cond. (mS/cm)			0.452			
DO (mg/l)			3.50			
pH			6.45			
ORP (mV)			68.8			

TABLE D-4f

SUMMARY OF DETECTED COMPOUNDS IN SVE-6 GROUNDWATER (MARCH 2020)

NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this situation.

Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-4g

SUMMARY OF DETECTED COMPOUNDS IN SVE-7 GROUNDWATER (MARCH 2020 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	03/23/20	08/25/20	08/25/20 DUP	06/02/21	10/07/21
VOCs (µg/l)							
Chloroethane	400	80	<34	<68	<68	71 J	<276
2-Chlorotoluene	NSE	NSE	20 J	<36	<36	<36	<178
Chloroform	6	0.6	75 J	<46	<46	<46	<237
1,2-Dichlorobenzene	600	60	260	110 J	93 J	140	170 J
1,1-Dichloroethane	850	85	1,200	18,000	18,000	1,300	440
1,2-Dichloroethane	5	0.5	<22	200	200	<44	<58.3
1,1-Dichloroethene	7	0.7	1,300	530	490	180	137 J
cis-1,2-Dichloroethene	70	7	10,000	23,000	24,000	3,800	811
1,2-Dichloropropane	5	0.5	260	190	180	160 J	120 J
Ethylbenzene	700	140	250	110 J	93 J	<34	<65.0
Methylene Chloride	5	0.5	160	320	320	480	<63.9
Tetrachloroethene	5	0.5	15,000	1,500	1,200	7,100	6,520
Toluene	800	160	350	420	370	140 J	<57.6
Trichloroethene	5	0.5	43,000	5,400	4,700	15,000 J	14,600
1,1,1-Trichloroethane	200	40	55,000	7,900	9,500	14,000	10,000
1,1,2-Trichloroethane	5	0.5	440	160	150	<46	466 J
1,2,4-Trimethylbenzene	NSE	NSE	94	<45	<45	<45	<89.7
1,3,5-Trimethylbenzene	NSE	NSE	51 J	<65	<65	<65	<71.5
Trimethylbenzenes, Total	480	96	145	<110	<110	<110	<161
Vinyl chloride	0.2	0.02	40 J	600	580	310	<34.9
m,p-Xylenes	NSE	NSE	1,100	380	320	180 J	<140
o-Xylene	NSE	NSE	720	290	270	380	74.2 J
Xylenes (Total)	2,000	400	1,900	660	590	560 J	<214.2 J
Ethane	NSE		10	10	NA	15	1.8 J
Ethene			12	62	NA	110	7.8
Methane			16	760	NA	990	45
Total VOCs (µg/l)	NSE	NSE	129,358	59,942	60,466	44,285	33,393
Other Constituents (mg/l)							
Sulfate	250	125	36	0.64 J	NA	18	5.2
Alkalinity, Total as CaCO ₃	Not applicable		NA	430	NA	910	440
Iron, Dissolved	0.3	0.15	NA	46	NA	71	1.4
Manganese, Dissolved	0.05	0.025	NA	3.3	NA	1.6	3.9
Nitrogen (NO ₂ +NO ₃)	Not applicable		0.043	0.17	NA	0.093	0.024
Total Organic Carbon	Not applicable		NA	310	NA	1,600	180
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		8.73	16.86	NA	15.35	NA
Cond. (mS/cm)			2.416	2.684	NA	4.236	NA
DO (mg/l)			1.65	1.27	NA	NA	NA
pH			6.34	9.33	NA	NA	NA
ORP (mV)			-20.3	-83.0	NA	NA	NA

TABLE D-4g

SUMMARY OF DETECTED COMPOUNDS IN SVE-7 GROUNDWATER (MARCH 2020 - OCTOBER 2021)

NOTES:

VOC concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from

http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

NR 140 ES and PALs for sulfate, iron, and manganese are Public Welfare Groundwater Quality Standards from Table 2 of NR 140.

There are methods for establishing groundwater standards for indicator parameters of alkalinity, conductivity, total organic carbon, and nitrogen; however, those relate to determining increases in their concentrations over background concentrations and are not applicable to this

Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius.

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-5

SUMMARY OF COMPOUNDS DETECTED IN W-35 (OCTOBER 2018 - OCTOBER 2021)

Group (units)	NR 140	NR 140	Sample/Measurement Date				
	ES	PAL	10/25/18	03/27/19	05/22/19	10/22/19	10/22/19 DUP
VOCs (µg/l)							
Acetone	9000	1,800	19 J	<1.8	4.6	67 J	62 J
2-Butanone	4000	800	<0.58	<1.2	6.2	<2.6	<2.6
Chloroform	6	0.6	<2.6	6.8	3.9	5.7 J	5.4 J
Chloromethane	30	3	11	<0.34	<0.83	<4.2	<4.2
1,1-Dichloroethane	850	85	43	54	32	71	69
1,1-Dichloroethene	7	0.7	10	8.7	8.2	6.5 J	5.4 J
1,2-Dichloroethane	5	0.5	<0.17	<0.33	0.53 J	<2.2	<2.2
cis-1,2-Dichloroethene	70	7	260	350	200	670	670
trans-1,2-Dichloroethene	100	20	<2.8	2.8	3.7	3.0 J	3.2 J
1,2-Dichloropropane	5	0.5	<2.5	2.0	0.81 J	<2.4	<2.4
Ethylbenzene	700	140	<0.4	<0.81	0.38 J	<1.7	<1.7
Methylene Chloride	5	0.5	<5.6	8.5	2.5 J	<4.3	<4.3
Methyl tert-butyl ether	60	12	<1.2	2.1	11	<2.2	<2.2
2-Propanol	3,000 ⁽¹⁾		<330	<66	<33	340 J	340 J
Tetrachloroethene	5	0.5	490	470	380	9.4	7.8
Toluene	800	160	<0.37	<0.73	5.3	<2.2	<2.2
Trichloroethene	5	0.5	240	220	190	31	26
1,1,1-Trichloroethane	200	40	300	200	200	71	59
1,1,2-Trichloroethane	5	0.5	<4.0	<0.80	<0.46	4.0 J	3.8 J
Vinyl chloride	0.2	0.02	<2.0	<0.41	<0.53	3.6 J	3.8 J
m,p-Xylenes	NSE	NSE	<0.98	<2.0	0.95 J	<4.0	<4.0
o-Xylene	NSE	NSE	<0.35	<0.71	0.32 J	<1.6	<1.6
Xylenes (combined)	2,000	400	<1.35	<2.71	1.27 J	<5.6	<5.6
Total VOCs - MEE (µg/l)	NSE	NSE					
Ethane	NSE		NA	<0.21	NA	9.2	NA
Ethene			NA	<0.41	NA	4.8 J	NA
Methane			NA	6.1	NA	16	NA
Total VOCs (µg/l)	NSE		1,373	1,331	1,050	1,312	1,255
Total VOCs - MEE (µg/l)	NSE		1,373	1,325	1,050	1,282	1,255
Other Constituents (mg/l)							
Sulfate	250	125	NA	41	NA	6.6	NA
Alkalinity, Total as CaCO ₃	Not applicable		NA	57	NA	360	NA
Iron, Dissolved	0.3	0.15	NA	0.41	NA	41	NA
Manganese, Dissolved	0.05	0.0025	NA	3.7	NA	1.5	NA
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	8.3	NA	0.054	NA
Total Organic Carbon	Not applicable		NA	4.0	NA	76	NA
RNA Field Parameters (units as shown)							
Temp (°C)	NSE		NA	NA	10.88	14.00	NA
Cond. (mS/cm)			NA	NA	6.023	5.133	NA
DO (mg/l)			NA	NA	8.28	0.81	NA
pH			NA	NA	5.42	6.93	NA
ORP (mV)			NA	NA	188.6	-151.4	NA

TABLE D-5

SUMMARY OF COMPOUNDS DETECTED IN W-35 (OCTOBER 2018 - OCTOBER 2021)

Group (units) Substance/Parameter	NR 140 ES	NR 140 PAL	Sample/Measurement Date			
			04/27/20	08/25/20	06/02/21	10/07/21
VOCs (µg/l)						
Acetone	9000	1,800	14 J	130	42	21.0 J
2-Butanone	4000	800	<0.52	9.5	7.9	21.2 J
Chloroform	6	0.6	1.7	<0.46	<0.46	<1.2
Chloromethane	30	3	<0.83	<0.83	<0.83	<1.6
1,1-Dichloroethane	850	85	65	48	23	61.6
1,1-Dichloroethene	7	0.7	0.94 J	<0.40	<0.40	<0.58
1,2-Dichloroethane	5	0.5	0.56 J	<0.44	<0.44	1.0
cis-1,2-Dichloroethene	70	7	130	14	<0.42	13.0
trans-1,2-Dichloroethene	100	20	1.5 J	0.91 J	1.3 J	5.9
1,2-Dichloropropane	5	0.5	0.87 J	<0.48	<0.48	1.4
Ethylbenzene	700	140	<0.34	<0.34	<0.34	<0.33
Methylene Chloride	5	0.5	2.2 J	3.2	<0.86	1.1 J
Methyl tert-butyl ether	60	12	1.2 J	1.2 J	2.1	3.1 J
2-Propanol	3,000 ⁽¹⁾		120	300	<33	26.3 J
Tetrachloroethene	5	0.5	3.0	<0.39	1.0 J	1.9
Toluene	800	160	<0.45	<0.45	<0.45	<0.29
Trichloroethene	5	0.5	1.4	<0.43	<0.43	1.4
1,1,1-Trichloroethane	200	40	37	8.2	10	28.7
1,1,2-Trichloroethane	5	0.5	1.4 J	<0.46	<0.46	2.0 J
Trichlorofluoromethane	3,490	698	<0.52	<0.52	<0.52	0.53 J
Vinyl chloride	0.2	0.02	15	2.2	<0.53	9.2
m,p-Xylenes	NSE	NSE	<0.81	<0.81	<0.81	<0.70
o-Xylene	NSE	NSE	<0.31	<0.31	<0.31	<0.35
Xylenes (combined)	2,000	400	<1.12	<1.12	<1.12	<1.0
Ethane	NSE		7.9	<1.5	3.2 J	3.0 J
Ethene			140	77	38	160
Methane			1,700	22,000	7,900	9,600
Total VOCs (µg/l)	NSE		2,244	22,594	8,029	9,962
Total VOCs - MEE (µg/l)	NSE		396	517	87	199
Other Constituents (mg/l)						
Sulfate	250	125	NA	<0.11	NA	0.58 J
Alkalinity, Total as CaCO ₃	Not applicable		300	470	NA	380
Iron, Dissolved	0.3	0.15	30	48	52	35
Manganese, Dissolved	0.05	0.0025	0.71	0.76	1.7	1.8
Nitrogen (NO ₂ +NO ₃)	Not applicable		NA	0.082	0.11	0.045
Total Organic Carbon	Not applicable		67	190	110	120
RNA Field Parameters (units as shown)						
Temp (°C)	NSE		8.92	13.86	10.42	14.50
Cond. (mS/cm)			3.875	3.462	3.294	3.49
DO (mg/l)			1.73	1.35	NA	3.4
pH			6.88	8.59	NA	6.7
ORP (mV)			-154.5	-126.5	NA	-127

SUMMARY OF COMPOUNDS DETECTED IN W-35 (OCTOBER 2018 - OCTOBER 2021)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$) equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

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Cond. (mS/cm) = Conductivity in milliSiemens per centimeter.

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

DUP = Duplicate sample.

EE = Equipment error; the DO probe was malfunctioning on 12/11/18

J = Reported value fell below the Limit of Quantitation set by the lab.

MEE = Methane, ethane, and ethene detected concentrations, combined.

NA = Not analyzed.

NSE = No standard exists in NR 140 for this substance/group.

ORP (mV) = Oxidation reduction potential in millivolts.

Temp ($^{\circ}\text{C}$) = Temperature in degrees Celsius

Total VOCs = Summation of the detected volatile organic compounds on the sample date shown.

Xylenes (combined) = summation of the m-, p-, and o-xylene isomers.

FOOTNOTE:

(1) There is no NR 140 PAL or ES for 2-propanol (aka isopropyl alcohol). The WDNR recommends using the health advisory limit of 3,000 ppb based on a 10^{-6} cancer risk per <http://dnr.wi.gov/topic/drinkingwater/documents/haltable.pdf>.

WRR ENVIRONMENTAL SERVICES CO., INC.
EAU CLAIRE, WISCONSIN

TABLE D-6

1,4-DIOXANE CONCENTRATIONS MEASURED IN GROUNDWATER (JUNE & OCTOBER 2021)

	Sample ID and Date						NR 140 ES	NR 140 PAL
	W-32	W-33	W-34	W-35	SVE-7	Turbostripper Influent		
	06/02/21	06/02/21	06/02/21	06/02/21	06/02/21	06/02/21		
1,4-Dioxane	<2.2	180	<4.4	<4.4	<440	<4.4	3	<i>0.3</i>

	Sample ID and Date						NR 140 ES	NR 140 PAL
	SVE-5	Trip Blank	W-6	W-19R	TW-1	Trip Blank		
	10/07/21	10/07/21	10/08/21	10/08/21	10/08/21	10/08/21		
1,4-Dioxane	110	<0.44	7.8	15	19	3.7	3	<i>0.3</i>

NOTES:

Concentrations are in micrograms per liter (µg/ℓ), equivalent to parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL but less than an applicable ES are italicized.

Detected concentrations at or above an applicable NR 140 ES are in bold.

NR 140 ES and PAL values listed on table taken from Table 1 of s. NR 140.10, Wis. Adm. Code downloaded on 1/19/22 from http://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf - Register June 2021 No. 786.

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TABLE D-7

GROUNDWATER DNA ANALYSIS SUMMARY

Sample ID & Date	Dehalococcoides DHC	tceA R-Dase TCE	BAV1 VC R-Dase BVC	VC R-Dase VCR	Dehalobacter spp. DHBt
SVE-4					
09/06/18	1.09E+02	6.74E+01	9.80E+00	1.27E+01	2.36E+04
07/02/19	7.62E+05	2.95E+02	7.12E+03	7.32E+04	3.09E+04
SVE-5					
10/07/21	1.04E+04	2.06E+02	5.45E+01	8.62E+02	3.93E+05
SVE-6					
03/23/20	8.51E+01	NA	NA	NA	5.71E+04
SVE-7					
03/23/20	<5.00E+00	NA	NA	NA	1.18E+01 (J)
10/07/21	2.28E+03	2.15E+02	4.90E+00	1.76E+01	4.03E+05
W-32					
05/09/18	<2.60E+00	<2.60E+00	<2.60E+00	<2.60E+00	<2.63E+01
09/06/18	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<4.80E+00
12/11/18	2.00E-0.1(J)	<5.00E-01	<5.00E-01	<5.00E-01	<4.60E+00
03/27/19	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	3.30+00 (J)
05/23/19	3.00E-01 (J)	1.00E-01 (J)	<5.00E-01	1.00E-01 (J)	<5.00E+00
10/22/19	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<4.70E+00
03/23/20	1.10E+00	NA	NA	NA	<4.60E+00
W-33					
09/06/18	6.75E+03	3.80E+00	8.49E+02	7.42E+02	1.93E+03
03/23/20	2.90E+02	NA	NA	NA	2.11E+01
W-34					
05/09/18	<5.30E+00	<5.30E+00	<5.30E+00	<5.30E+00	8.15E+02
09/06/18	4.16E+01	2.56E+01	2.00E+00	3.70E+00	6.59E+05
12/11/18	2.46E+06	1.70E+06	7.05E+05	2.32E+06	8.87E+05
03/27/19	3.17E+05	4.49E+05	3.66E+03	3.12E+05	7.00E+04
05/23/19	2.69E+06	3.17E+05	1.06E+05	3.13E+05	8.96E+04
W-35					
03/27/19	2.00E+00	5.00E-01 (J)	<1.50E+00	4.40E+00	<1.52E+01
10/22/19	5.88E+02	5.33E+01	<5.00E-01	6.38E+01	7.04E+04
04/27/20	1.78E+05	1.84E+02	<5.00E-01	3.47E+04	3.51E+04

NOTES:

- Results are in cells per milliliter (cells/mL).
- Concentrations in bold signify detection by laboratory.
- DNA = Deoxyribonucleic acid.
- J = Estimated gene copies below PQL but above LQL.
- NA = Not analyzed.
- R-Dase = Reductase.
- VC = Vinyl chloride.

TABLE D-8

EVALUATION OF REDUCTIVE DECHLORINATION STATUS IN W-32 THROUGH W-35, SVE-4, SVE-6 & SVE-7

Parameter	Units	Measured Value ⁽¹⁾	Points ⁽¹⁾	Well ID - Measurement/Results - & RNA Score															
				W-32		W-33		W-34		W-35		SVE-4		SVE-5		SVE-6		SVE-7	
Date of Sample				10/07/21		10/07/21		10/07/21		10/07/21		06/01/21		10/07/21		03/23/20		10/07/21	
DO	mg/L	<0.5	3	6.4	-3	4.9	0	3.3	0	3.4	0	2.6	0	3.3	0	3.5	0	NM	
		>5.0	-3																
ORP	mV	<50	1	106.9	0	-117	2	-110	2	-127	2	-17.3	1	-146	2	68.8	0	NM	
		<-100	2																
pH	s.u.	5 < pH < 9	0	6.4	0	6.3	0	6.3	0	6.7	0	7.76	0	6.6	0	6.45	0	NM	
		5 > pH > 9	-2																
Temperature	°C	>20	1	17.7	0	17.7	0	15.2	0	14.5	0	17.49	0	16	1	7.63	0	NM	
Alkalinity	mg/L	>114 ⁽²⁾	1	52	0	190	1	140	1	380	1	320	1	190	1	NA	0	440	1
Diss. Iron	mg/L	>1	3	0.19	0	180	3	93	3	35	3	1.3	3	80	3	NA	0	1.4	3
Diss. Manganese	mg/L	>1	2	0.0084	0	9.6	2	6.0	2	1.8	2	0.044	0	4.2	2	NA	0	3.9	2
Nitrate	mg/L	<1	2	10	0	0.074	2	0.076	2	0.045	2	6.0	0	0.061	2	1.5	0	0.024	2
Sulfate	mg/L	<20	2	13	2	5.2	2	0.64 J	2	0.58 J	2	44	0	0.29 J	2	7.1	2	5.2	2
TOC	mg/L	>20	2	4.8	0	46	2	89	2	120	2	94	2	23	2	NA	0	180	2
1,1 or 1,2-DCE	Present (as daughter prod.)		2	D	2	D	2	D	2	D	2	D	2	D	2	D	2	D	2
Vinyl Chloride	Present (as daughter prod.)		2	D	2	D	2	D	2	D	2	D	2	D	2	D	2	ND	0
DCA	Present (as daughter prod.)		2	D	2	D	2	D	2	D	2	D	2	D	2	D	2	D	2
Chloroethane	Present (as daughter prod.)		2	ND	0	D	2	D	2	ND	0	ND	0	D	2	ND	0	ND	0
Chloroform	Present (as daughter prod.)		2	ND	0	ND	0	ND	0	ND	0	D	2	ND	0	D	2	ND	0
Dichloromethane	Present (as daughter prod.)		2	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0	ND	0
BETX	mg/L	>0.1	2	ND	0	2.24	2	0.0691	0	ND	0	ND	0	5.363	2	ND	0	0.0742	0
Ethane & Ethane	µg/L	>10	2	<3.2	0	54	2	286	3	163	2	52	2	102	3	10	2	9.6	0
		>100	3																
Methane	µg/L	>10	2	<2.0	0	680	2	1,700	3	9,600	3	400	2	8,300	3	41	2	45	2
		>1,000	3																
Total RNA Rating & Score⁽³⁾				Inadequate	5	Strong	28	Strong	28	Strong	25	Adequate	19	Strong	31	Limited	14	Adequate	18
DHC ⁽⁴⁾	cells/mL	<10	Poor	1.1	P	290	M	2,690,000	G	178,000	G	762,000	G	10,400	G	85	M	2,280	M
		10 to 10,000	Moderate																
		≥10,000	Good																
DHBt ⁽⁴⁾	cells/mL	<10	Poor	<4.6	P	21.1	M	89,600	G	35,100	G	30,900	G	393,000	G	57,100	G	403,000	G
		10 to 10,000	Moderate																
		>10,000	Good																

NOTES:

DO – Dissolved oxygen; ORP – oxidation reduction potential; DCE - dichloroethene; DCA - dichloroethane; TOC – total organic carbon; BETX - benzene, ethylbenzene, toluene, and xylene; DHC – dehalococoides bacteria; DHBt – dehalobacter bacteria; s.u. – standard units for measuring pH; mV – millivolts for measuring ORP; mg/L – milligrams per liter; µg/L – micrograms per liter; D - Detected; ND - Not detected.

Concentrations & values in red were not measured on sample date noted above but from a previous sampling event.

FOOTNOTES:

- The measured values and points used to score each RNA parameter taken from USEPA Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water – Weidemeier, et al, September 1998 and Minnesota Pollution Control Agency's June 2006 Natural Attenuation of Chlorinated Solvents in Ground Water guidance.
- The "optimal" alkalinity is twice the background concentration. The lowest "background" alkalinity as CaCO₃ of 57 mg/L measured in W-35 in March 2019 before injection activities occurred was used as the background alkalinity.
- Interpretation of RNA score taken from Table 2.4 of USEPA September 1998 guidance referenced above as follows:

Score	Interpretation
0 to 5	Inadequate evidence for anaerobic degradation/reductive dichlorination of chlorinated organics
6 to 14	Limited evidence for anaerobic degradation/reductive dichlorination of chlorinated organics
15 to 20	Adequate evidence for anaerobic degradation/reductive dichlorination of chlorinated organics
> 20	Strong evidence for anaerobic degradation/reductive dichlorination of chlorinated organics
- Ranges for DHC and DHBt taken from Microbial Insights DHC Interpretation guide included with DHC/DHBt laboratory reports and are based on *Relationship between Dehalococoides DNA in ground water and rates of reductive dichlorination at field scale* - Xiaoxia Lu, et. al. - Water Research - Vol 40, Issue 16 - September 2006.

APPENDIX D-3

LABORATORY REPORTS FOR GROUNDWATER SAMPLES COLLECTED FROM
MONITORING WELLS (JUNE – OCTOBER 2021)



The analytical & QA/QC results
in the attached laboratory report
have been reviewed and
approved by AWM on 6/17/21.

17-Jun-2021

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

Re: **WRR (55929.005)**

Work Order: **21060304**

Dear Anthony,

ALS Environmental received 55 samples on 02-Jun-2021 through 04-Jun-2021 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 199.

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,

A handwritten signature in black ink that reads "Ehrland Bosworth".

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21060304

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21060304-01	W-1	Groundwater		6/1/2021 15:50	6/2/2021 14:30	<input type="checkbox"/>
21060304-02	W-1A	Groundwater		6/1/2021 15:45	6/2/2021 14:30	<input type="checkbox"/>
21060304-03	W-1D	Groundwater		6/1/2021 16:00	6/2/2021 14:30	<input type="checkbox"/>
21060304-04	W-7	Groundwater		6/1/2021 15:15	6/2/2021 14:30	<input type="checkbox"/>
21060304-05	W-7 DUP	Groundwater		6/1/2021 15:16	6/2/2021 14:30	<input type="checkbox"/>
21060304-06	W-7A	Groundwater		6/1/2021 15:25	6/2/2021 14:30	<input type="checkbox"/>
21060304-07	W-18	Groundwater		6/1/2021 14:35	6/2/2021 14:30	<input type="checkbox"/>
21060304-08	W-18A	Groundwater		6/1/2021 14:40	6/2/2021 14:30	<input type="checkbox"/>
21060304-09	MW-111	Groundwater		6/1/2021 11:35	6/2/2021 14:30	<input type="checkbox"/>
21060304-10	MW-111A	Groundwater		6/1/2021 11:30	6/2/2021 14:30	<input type="checkbox"/>
21060304-11	MW-111B	Groundwater		6/1/2021 11:25	6/2/2021 14:30	<input type="checkbox"/>
21060304-12	MW-114	Groundwater		6/1/2021 10:41	6/2/2021 14:30	<input type="checkbox"/>
21060304-13	MW-114A	Groundwater		6/1/2021 10:45	6/2/2021 14:30	<input type="checkbox"/>
21060304-14	MW-114B	Groundwater		6/1/2021 10:35	6/2/2021 14:30	<input type="checkbox"/>
21060304-15	Seep 2N	Groundwater		6/1/2021 11:45	6/2/2021 14:30	<input type="checkbox"/>
21060304-16	Seep 7N	Groundwater		6/1/2021 11:50	6/2/2021 14:30	<input type="checkbox"/>
21060304-17	Trip Blank-1	Water		6/1/2021	6/2/2021 14:30	<input type="checkbox"/>
21060304-18	W-2A	Groundwater		6/2/2021 13:45	6/3/2021 14:30	<input type="checkbox"/>
21060304-19	W-2B	Groundwater		6/2/2021 13:40	6/3/2021 14:30	<input type="checkbox"/>
21060304-20	W-3A	Groundwater		6/2/2021 08:20	6/3/2021 14:30	<input type="checkbox"/>
21060304-21	W-3B	Groundwater		6/2/2021 08:15	6/3/2021 14:30	<input type="checkbox"/>
21060304-22	W-17	Groundwater		6/2/2021 09:50	6/3/2021 14:30	<input type="checkbox"/>
21060304-23	W-17A	Groundwater		6/2/2021 10:00	6/3/2021 14:30	<input type="checkbox"/>
21060304-24	W-17B	Groundwater		6/2/2021 10:10	6/3/2021 14:30	<input type="checkbox"/>
21060304-25	W-2C	Groundwater		6/2/2021 12:45	6/3/2021 14:30	<input type="checkbox"/>
21060304-26	W-27	Groundwater		6/2/2021 11:25	6/3/2021 14:30	<input type="checkbox"/>
21060304-27	W-29	Groundwater		6/2/2021 09:10	6/3/2021 14:30	<input type="checkbox"/>
21060304-28	W-31A	Groundwater		6/2/2021 13:15	6/3/2021 14:30	<input type="checkbox"/>
21060304-29	W-31B	Groundwater		6/2/2021 13:20	6/3/2021 14:30	<input type="checkbox"/>
21060304-30	W-32	Groundwater		6/2/2021 10:10	6/3/2021 14:30	<input type="checkbox"/>
21060304-31	W-33	Groundwater		6/2/2021 11:00	6/3/2021 14:30	<input type="checkbox"/>
21060304-32	W-34	Groundwater		6/2/2021 09:10	6/3/2021 14:30	<input type="checkbox"/>
21060304-33	W-35	Groundwater		6/2/2021 14:20	6/3/2021 14:30	<input type="checkbox"/>
21060304-34	MW-104	Groundwater		6/2/2021 10:20	6/3/2021 14:30	<input type="checkbox"/>
21060304-35	MW-104A	Groundwater		6/2/2021 10:25	6/3/2021 14:30	<input type="checkbox"/>
21060304-36	MW-106	Groundwater		6/2/2021 10:55	6/3/2021 14:30	<input type="checkbox"/>
21060304-37	MW-106A	Groundwater		6/2/2021 11:00	6/3/2021 14:30	<input type="checkbox"/>
21060304-38	MW-116	Groundwater		6/2/2021 08:46	6/3/2021 14:30	<input type="checkbox"/>
21060304-39	RW-5	Groundwater		6/2/2021 16:10	6/3/2021 14:30	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21060304

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21060304-40	RW-5 DUP	Groundwater		6/2/2021 16:15	6/3/2021 14:30	<input type="checkbox"/>
21060304-41	SVE-7	Groundwater		6/2/2021 16:16	6/3/2021 14:30	<input type="checkbox"/>
21060304-42	Trip Blank-2	Water		6/2/2021	6/3/2021 14:30	<input type="checkbox"/>
21060304-43	W-2	Groundwater		6/3/2021 09:25	6/4/2021 15:00	<input type="checkbox"/>
21060304-44	W-2 Dup	Groundwater		6/3/2021 09:26	6/4/2021 15:00	<input type="checkbox"/>
21060304-45	W-3	Groundwater		6/3/2021 07:50	6/4/2021 15:00	<input type="checkbox"/>
21060304-46	W-4	Groundwater		6/3/2021 10:05	6/4/2021 15:00	<input type="checkbox"/>
21060304-47	W-5	Groundwater		6/3/2021 08:20	6/4/2021 15:00	<input type="checkbox"/>
21060304-48	W-6	Groundwater		6/3/2021 09:10	6/4/2021 15:00	<input type="checkbox"/>
21060304-49	W-19R	Groundwater		6/3/2021 10:40	6/4/2021 15:00	<input type="checkbox"/>
21060304-50	W-28	Groundwater		6/3/2021 11:15	6/4/2021 15:00	<input type="checkbox"/>
21060304-51	TW-1	Groundwater		6/3/2021 08:40	6/4/2021 15:00	<input type="checkbox"/>
21060304-52	TW-1 Dup	Groundwater		6/3/2021 08:41	6/4/2021 15:00	<input type="checkbox"/>
21060304-53	TS Inf	Groundwater		6/3/2021 11:40	6/4/2021 15:00	<input type="checkbox"/>
21060304-54	Res. Eff	Groundwater		6/3/2021 11:45	6/4/2021 15:00	<input type="checkbox"/>
21060304-55	SVE-4	Groundwater		6/3/2021 09:45	6/4/2021 15:00	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 21060304

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21060304

Case Narrative

Samples for the above noted Work Order were received on 06/02/2021. 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:

Batch R319676w, Method SW8260C, Sample MW-111A (21060304-10A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319776d, Method SW8260C, Sample W-19R (21060304-49A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319776d, Method SW8260C, Sample SVE-4 (21060304-55A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319874, Method SW8260B, Sample W-32 (21060304-30E): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319874, Method SW8260B, Sample SVE-7 (21060304-41E): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319985, Method SW8260B, Sample W-34 (21060304-32E): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference. Lower dilution interfered with internal standard response

Batch R319985, Method SW8260B, Sample W-34 (21060304-32E): One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21060304

Case Narrative

Batch R319985, Method SW8260B, Sample W-35 (21060304-33E): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference. Lower dilution interfered with internal standard response

Batch R319985, Method SW8260B, Sample W-35 (21060304-33E): One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed.

Batch R319985, Method SW8260B, Sample SVE-7 (21060304-41E): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference. Lower dilution interfered with internal standard response

Batch R319985, Method SW8260B, Sample TS Inf (21060304-53A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch R319776d, Method SW8260C, Sample 21060304-53A MS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Toluene

Batch R319895a, Method SW8260C, Sample 21060304-53A MS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: 2-Butanone

Batch R319895a, Method SW8260C, Sample 21060304-53A MS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Multiple Analytes-see QC report

Batch R319776d, Method SW8260C, Sample 21060304-53A MSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Toluene

Batch R319895a, Method SW8260C, Sample 21060304-53A MSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: 2-Butanone

Batch R319895a, Method SW8260C, Sample 21060304-53A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: Bromomethane

No other deviations or anomalies were noted.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21060304

Case Narrative

Metals:

No deviations or anomalies were noted.

Wet Chemistry:

Batch R319456, Method SW9056A, Sample W-34 (21060304-32C): The reporting limit is elevated due to dilution for high concentrations of non-target analytes: Sulfate

No other deviations or anomalies were noted.

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1
Collection Date: 6/1/2021 03:50 PM

Work Order: 21060304
Lab ID: 21060304-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 13:56
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 13:56
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 13:56
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 13:56
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 13:56
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 13:56
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 13:56
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 13:56
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 13:56
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 13:56
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 13:56
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 13:56
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 13:56
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 13:56
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 13:56
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 13:56
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 13:56
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 13:56
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 13:56
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 13:56
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 13:56
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 13:56
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 13:56
2-Propanol	U		33	110	µg/L	1	6/13/2021 13:56
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 13:56
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 13:56
Acetone	U		6.2	21	µg/L	1	6/13/2021 13:56
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 13:56
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 13:56
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 13:56
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 13:56
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 13:56
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 13:56
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 13:56
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 13:56
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 13:56
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 13:56
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 13:56

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1
Collection Date: 6/1/2021 03:50 PM

Work Order: 21060304
Lab ID: 21060304-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 13:56
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 13:56
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 13:56
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 13:56
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 13:56
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 13:56
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 13:56
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 13:56
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 13:56
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 13:56
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 13:56
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 13:56
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 13:56
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 13:56
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 13:56
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 13:56
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 13:56
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 13:56
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 13:56
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 13:56
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 13:56
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 13:56
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 13:56
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 13:56
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 13:56
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 13:56
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 13:56
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 13:56
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/13/2021 13:56
Surr: 4-Bromofluorobenzene	97.7			80-110	%REC	1	6/13/2021 13:56
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/13/2021 13:56
Surr: Toluene-d8	96.3			85-110	%REC	1	6/13/2021 13:56

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1A
Collection Date: 6/1/2021 03:45 PM

Work Order: 21060304
Lab ID: 21060304-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 14:18
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 14:18
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 14:18
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 14:18
1,1-Dichloroethane	0.79	J	0.44	1.5	µg/L	1	6/13/2021 14:18
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 14:18
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 14:18
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 14:18
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 14:18
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 14:18
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 14:18
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 14:18
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 14:18
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 14:18
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 14:18
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 14:18
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 14:18
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 14:18
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 14:18
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 14:18
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 14:18
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 14:18
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 14:18
2-Propanol	48	J	33	110	µg/L	1	6/13/2021 14:18
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 14:18
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 14:18
Acetone	11	J	6.2	21	µg/L	1	6/13/2021 14:18
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 14:18
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 14:18
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 14:18
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 14:18
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 14:18
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 14:18
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 14:18
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 14:18
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 14:18
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 14:18
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 14:18

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1A
Collection Date: 6/1/2021 03:45 PM

Work Order: 21060304
Lab ID: 21060304-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	0.83	J	0.42	1.4	µg/L	1	6/13/2021 14:18
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 14:18
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 14:18
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 14:18
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 14:18
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 14:18
Ethylbenzene	3.2		0.34	1.1	µg/L	1	6/13/2021 14:18
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 14:18
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 14:18
m,p-Xylene	4.7		0.81	2.7	µg/L	1	6/13/2021 14:18
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 14:18
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 14:18
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 14:18
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 14:18
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 14:18
o-Xylene	2.2		0.31	1.0	µg/L	1	6/13/2021 14:18
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 14:18
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 14:18
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 14:18
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 14:18
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 14:18
Toluene	1.0	J	0.45	1.5	µg/L	1	6/13/2021 14:18
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 14:18
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 14:18
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 14:18
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 14:18
Vinyl chloride	1.6	J	0.53	1.8	µg/L	1	6/13/2021 14:18
Xylenes, Total	6.9		0.81	4.4	µg/L	1	6/13/2021 14:18
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/13/2021 14:18
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	1	6/13/2021 14:18
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/13/2021 14:18
Surr: Toluene-d8	97.0			85-110	%REC	1	6/13/2021 14:18

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1D
Collection Date: 6/1/2021 04:00 PM

Work Order: 21060304
Lab ID: 21060304-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 14:40
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 14:40
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 14:40
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 14:40
1,1-Dichloroethane	1.5	J	0.44	1.5	µg/L	1	6/13/2021 14:40
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 14:40
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 14:40
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 14:40
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 14:40
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 14:40
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 14:40
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 14:40
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 14:40
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 14:40
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 14:40
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 14:40
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 14:40
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 14:40
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 14:40
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 14:40
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 14:40
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 14:40
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 14:40
2-Propanol	U		33	110	µg/L	1	6/13/2021 14:40
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 14:40
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 14:40
Acetone	11	J	6.2	21	µg/L	1	6/13/2021 14:40
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 14:40
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 14:40
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 14:40
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 14:40
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 14:40
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 14:40
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 14:40
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 14:40
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 14:40
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 14:40
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 14:40

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-1D
Collection Date: 6/1/2021 04:00 PM

Work Order: 21060304
Lab ID: 21060304-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 14:40
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 14:40
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 14:40
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 14:40
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 14:40
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 14:40
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 14:40
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 14:40
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 14:40
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 14:40
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 14:40
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 14:40
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 14:40
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 14:40
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 14:40
o-Xylene	0.31	J	0.31	1.0	µg/L	1	6/13/2021 14:40
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 14:40
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 14:40
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 14:40
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 14:40
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 14:40
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 14:40
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 14:40
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 14:40
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 14:40
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 14:40
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 14:40
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 14:40
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/13/2021 14:40
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/13/2021 14:40
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	6/13/2021 14:40
Surr: Toluene-d8	97.8			85-110	%REC	1	6/13/2021 14:40

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7
Collection Date: 6/1/2021 03:15 PM

Work Order: 21060304
Lab ID: 21060304-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 15:02
1,1,1-Trichloroethane	0.54	J	0.46	1.5	µg/L	1	6/13/2021 15:02
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 15:02
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 15:02
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 15:02
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 15:02
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 15:02
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 15:02
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:02
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:02
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:02
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 15:02
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 15:02
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 15:02
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 15:02
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 15:02
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 15:02
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 15:02
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:02
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:02
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 15:02
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 15:02
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 15:02
2-Propanol	39	J	33	110	µg/L	1	6/13/2021 15:02
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 15:02
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 15:02
Acetone	10	J	6.2	21	µg/L	1	6/13/2021 15:02
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 15:02
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 15:02
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 15:02
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 15:02
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 15:02
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 15:02
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 15:02
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 15:02
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 15:02
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 15:02
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 15:02

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7
Collection Date: 6/1/2021 03:15 PM

Work Order: 21060304
Lab ID: 21060304-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 15:02
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 15:02
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 15:02
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 15:02
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 15:02
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 15:02
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:02
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 15:02
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:02
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 15:02
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 15:02
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 15:02
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 15:02
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:02
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 15:02
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 15:02
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 15:02
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 15:02
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 15:02
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 15:02
Tetrachloroethene	2.5		0.39	1.3	µg/L	1	6/13/2021 15:02
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 15:02
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 15:02
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 15:02
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 15:02
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 15:02
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 15:02
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 15:02
Surr: 1,2-Dichloroethane-d4	98.8			75-120	%REC	1	6/13/2021 15:02
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/13/2021 15:02
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/13/2021 15:02
Surr: Toluene-d8	97.9			85-110	%REC	1	6/13/2021 15:02

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7 DUP
Collection Date: 6/1/2021 03:16 PM

Work Order: 21060304
Lab ID: 21060304-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 15:24
1,1,1-Trichloroethane	0.47	J	0.46	1.5	µg/L	1	6/13/2021 15:24
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 15:24
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 15:24
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 15:24
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 15:24
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 15:24
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 15:24
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:24
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:24
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:24
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 15:24
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 15:24
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 15:24
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 15:24
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 15:24
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 15:24
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 15:24
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:24
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:24
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 15:24
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 15:24
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 15:24
2-Propanol	U		33	110	µg/L	1	6/13/2021 15:24
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 15:24
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 15:24
Acetone	U		6.2	21	µg/L	1	6/13/2021 15:24
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 15:24
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 15:24
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 15:24
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 15:24
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 15:24
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 15:24
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 15:24
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 15:24
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 15:24
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 15:24
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 15:24

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7 DUP
Collection Date: 6/1/2021 03:16 PM

Work Order: 21060304
Lab ID: 21060304-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 15:24
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 15:24
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 15:24
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 15:24
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 15:24
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 15:24
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:24
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 15:24
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:24
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 15:24
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 15:24
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 15:24
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 15:24
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:24
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 15:24
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 15:24
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 15:24
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 15:24
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 15:24
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 15:24
Tetrachloroethene	2.5		0.39	1.3	µg/L	1	6/13/2021 15:24
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 15:24
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 15:24
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 15:24
Trichloroethene	0.45	J	0.43	1.4	µg/L	1	6/13/2021 15:24
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 15:24
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 15:24
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 15:24
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/13/2021 15:24
Surr: 4-Bromofluorobenzene	99.4			80-110	%REC	1	6/13/2021 15:24
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 15:24
Surr: Toluene-d8	98.0			85-110	%REC	1	6/13/2021 15:24

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7A
Collection Date: 6/1/2021 03:25 PM

Work Order: 21060304
Lab ID: 21060304-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 15:46
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 15:46
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 15:46
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 15:46
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 15:46
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 15:46
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 15:46
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 15:46
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:46
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:46
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 15:46
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 15:46
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 15:46
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 15:46
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 15:46
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 15:46
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 15:46
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 15:46
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 15:46
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:46
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 15:46
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 15:46
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 15:46
2-Propanol	U		33	110	µg/L	1	6/13/2021 15:46
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 15:46
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 15:46
Acetone	U		6.2	21	µg/L	1	6/13/2021 15:46
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 15:46
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 15:46
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 15:46
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 15:46
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 15:46
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 15:46
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 15:46
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 15:46
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 15:46
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 15:46
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 15:46

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-7A
Collection Date: 6/1/2021 03:25 PM

Work Order: 21060304
Lab ID: 21060304-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 15:46
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 15:46
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 15:46
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 15:46
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 15:46
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 15:46
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:46
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 15:46
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 15:46
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 15:46
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 15:46
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 15:46
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 15:46
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 15:46
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 15:46
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 15:46
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 15:46
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 15:46
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 15:46
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 15:46
Tetrachloroethene	8.9		0.39	1.3	µg/L	1	6/13/2021 15:46
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 15:46
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 15:46
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 15:46
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 15:46
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 15:46
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 15:46
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 15:46
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1	6/13/2021 15:46
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/13/2021 15:46
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 15:46
Surr: Toluene-d8	96.7			85-110	%REC	1	6/13/2021 15:46

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-18
Collection Date: 6/1/2021 02:35 PM

Work Order: 21060304
Lab ID: 21060304-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 16:08
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:08
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 16:08
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:08
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 16:08
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 16:08
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 16:08
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 16:08
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:08
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 16:08
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 16:08
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 16:08
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 16:08
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 16:08
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 16:08
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 16:08
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 16:08
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 16:08
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:08
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 16:08
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 16:08
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 16:08
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 16:08
2-Propanol	U		33	110	µg/L	1	6/13/2021 16:08
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 16:08
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 16:08
Acetone	U		6.2	21	µg/L	1	6/13/2021 16:08
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 16:08
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 16:08
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 16:08
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 16:08
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 16:08
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 16:08
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 16:08
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 16:08
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 16:08
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 16:08
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 16:08

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-18
Collection Date: 6/1/2021 02:35 PM

Work Order: 21060304
Lab ID: 21060304-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 16:08
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 16:08
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 16:08
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 16:08
Dichlorodifluoromethane	6.4		0.68	2.3	µg/L	1	6/13/2021 16:08
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 16:08
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 16:08
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 16:08
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 16:08
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 16:08
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 16:08
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 16:08
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 16:08
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 16:08
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 16:08
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 16:08
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 16:08
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 16:08
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 16:08
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 16:08
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 16:08
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 16:08
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 16:08
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 16:08
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 16:08
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 16:08
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 16:08
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 16:08
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	6/13/2021 16:08
Surr: 4-Bromofluorobenzene	99.8			80-110	%REC	1	6/13/2021 16:08
Surr: Dibromofluoromethane	104			85-115	%REC	1	6/13/2021 16:08
Surr: Toluene-d8	95.6			85-110	%REC	1	6/13/2021 16:08

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-18A
Collection Date: 6/1/2021 02:40 PM

Work Order: 21060304
Lab ID: 21060304-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 16:30
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:30
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 16:30
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:30
1,1-Dichloroethane	6.4		0.44	1.5	µg/L	1	6/13/2021 16:30
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 16:30
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 16:30
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 16:30
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:30
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 16:30
1,2,4-Trimethylbenzene	9.7		0.45	1.5	µg/L	1	6/13/2021 16:30
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 16:30
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 16:30
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 16:30
1,2-Dichloroethane	0.72	J	0.44	1.4	µg/L	1	6/13/2021 16:30
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 16:30
1,3,5-Trimethylbenzene	1.1	J	0.65	2.2	µg/L	1	6/13/2021 16:30
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 16:30
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:30
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 16:30
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 16:30
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 16:30
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 16:30
2-Propanol	U		33	110	µg/L	1	6/13/2021 16:30
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 16:30
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 16:30
Acetone	U		6.2	21	µg/L	1	6/13/2021 16:30
Benzene	2.4		0.46	1.5	µg/L	1	6/13/2021 16:30
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 16:30
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 16:30
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 16:30
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 16:30
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 16:30
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 16:30
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 16:30
Chloroethane	28		0.68	2.3	µg/L	1	6/13/2021 16:30
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 16:30
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 16:30

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-18A
Collection Date: 6/1/2021 02:40 PM

Work Order: 21060304
Lab ID: 21060304-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	2.8		0.42	1.4	µg/L	1	6/13/2021 16:30
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 16:30
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 16:30
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 16:30
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 16:30
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 16:30
Ethylbenzene	52		0.34	1.1	µg/L	1	6/13/2021 16:30
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 16:30
Isopropylbenzene	1.1	J	0.35	1.2	µg/L	1	6/13/2021 16:30
m,p-Xylene	120		0.81	2.7	µg/L	1	6/13/2021 16:30
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 16:30
Methylene chloride	1.1	J	0.86	2.9	µg/L	1	6/13/2021 16:30
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 16:30
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 16:30
n-Propylbenzene	0.65	J	0.48	1.6	µg/L	1	6/13/2021 16:30
o-Xylene	32		0.31	1.0	µg/L	1	6/13/2021 16:30
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 16:30
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 16:30
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 16:30
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 16:30
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 16:30
Toluene	6.9		0.45	1.5	µg/L	1	6/13/2021 16:30
trans-1,2-Dichloroethene	0.88	J	0.48	1.6	µg/L	1	6/13/2021 16:30
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 16:30
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 16:30
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 16:30
Vinyl chloride	1.4	J	0.53	1.8	µg/L	1	6/13/2021 16:30
Xylenes, Total	150		0.81	4.4	µg/L	1	6/13/2021 16:30
Surr: 1,2-Dichloroethane-d4	98.8			75-120	%REC	1	6/13/2021 16:30
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/13/2021 16:30
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 16:30
Surr: Toluene-d8	97.2			85-110	%REC	1	6/13/2021 16:30

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111
Collection Date: 6/1/2021 11:35 AM

Work Order: 21060304
Lab ID: 21060304-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 16:53
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:53
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 16:53
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 16:53
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 16:53
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 16:53
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 16:53
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 16:53
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:53
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 16:53
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 16:53
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 16:53
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 16:53
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 16:53
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 16:53
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 16:53
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 16:53
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 16:53
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 16:53
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 16:53
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 16:53
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 16:53
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 16:53
2-Propanol	U		33	110	µg/L	1	6/13/2021 16:53
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 16:53
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 16:53
Acetone	9.2	J	6.2	21	µg/L	1	6/13/2021 16:53
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 16:53
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 16:53
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 16:53
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 16:53
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 16:53
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 16:53
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 16:53
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 16:53
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 16:53
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 16:53
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 16:53

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111
Collection Date: 6/1/2021 11:35 AM

Work Order: 21060304
Lab ID: 21060304-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 16:53
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 16:53
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 16:53
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 16:53
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 16:53
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 16:53
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 16:53
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 16:53
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 16:53
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 16:53
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 16:53
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 16:53
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 16:53
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 16:53
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 16:53
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 16:53
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 16:53
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 16:53
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 16:53
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 16:53
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 16:53
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 16:53
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 16:53
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 16:53
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 16:53
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 16:53
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 16:53
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 16:53
Surr: 1,2-Dichloroethane-d4	98.3			75-120	%REC	1	6/13/2021 16:53
Surr: 4-Bromofluorobenzene	96.8			80-110	%REC	1	6/13/2021 16:53
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 16:53
Surr: Toluene-d8	96.0			85-110	%REC	1	6/13/2021 16:53

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111A
Collection Date: 6/1/2021 11:30 AM

Work Order: 21060304
Lab ID: 21060304-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/15/2021 23:48
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 23:48
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/15/2021 23:48
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 23:48
1,1-Dichloroethane	4.7		0.44	1.5	µg/L	1	6/15/2021 23:48
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/15/2021 23:48
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/15/2021 23:48
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/15/2021 23:48
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 23:48
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/15/2021 23:48
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/15/2021 23:48
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/15/2021 23:48
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/15/2021 23:48
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/15/2021 23:48
1,2-Dichloroethane	4.9		0.44	1.4	µg/L	1	6/15/2021 23:48
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/15/2021 23:48
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/15/2021 23:48
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/15/2021 23:48
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 23:48
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/15/2021 23:48
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/15/2021 23:48
2-Butanone	U		0.52	1.7	µg/L	1	6/15/2021 23:48
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/15/2021 23:48
2-Propanol	U		33	110	µg/L	1	6/15/2021 23:48
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/15/2021 23:48
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/15/2021 23:48
Acetone	6.9	J	6.2	21	µg/L	1	6/15/2021 23:48
Benzene	1.9		0.46	1.5	µg/L	1	6/15/2021 23:48
Bromobenzene	U		0.38	1.3	µg/L	1	6/15/2021 23:48
Bromochloromethane	U		0.45	1.5	µg/L	1	6/15/2021 23:48
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/15/2021 23:48
Bromoform	U		0.56	1.9	µg/L	1	6/15/2021 23:48
Bromomethane	U		0.90	3.0	µg/L	1	6/15/2021 23:48
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/15/2021 23:48
Chlorobenzene	U		0.40	1.3	µg/L	1	6/15/2021 23:48
Chloroethane	180		6.8	23	µg/L	10	6/13/2021 17:15
Chloroform	U		0.46	1.5	µg/L	1	6/15/2021 23:48
Chloromethane	U		0.83	2.8	µg/L	1	6/15/2021 23:48

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111A
Collection Date: 6/1/2021 11:30 AM

Work Order: 21060304
Lab ID: 21060304-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/15/2021 23:48
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/15/2021 23:48
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/15/2021 23:48
Dibromomethane	U		0.65	2.2	µg/L	1	6/15/2021 23:48
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/15/2021 23:48
Diisopropyl ether	1.6		0.41	1.4	µg/L	1	6/15/2021 23:48
Ethylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 23:48
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/15/2021 23:48
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/15/2021 23:48
m,p-Xylene	U		0.81	2.7	µg/L	1	6/15/2021 23:48
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/15/2021 23:48
Methylene chloride	U		0.86	2.9	µg/L	1	6/15/2021 23:48
Naphthalene	U		0.77	2.6	µg/L	1	6/15/2021 23:48
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 23:48
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/15/2021 23:48
o-Xylene	U		0.31	1.0	µg/L	1	6/15/2021 23:48
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/15/2021 23:48
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/15/2021 23:48
Styrene	U		0.33	1.1	µg/L	1	6/15/2021 23:48
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/15/2021 23:48
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/15/2021 23:48
Toluene	12		0.45	1.5	µg/L	1	6/15/2021 23:48
trans-1,2-Dichloroethene	6.6		0.48	1.6	µg/L	1	6/15/2021 23:48
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/15/2021 23:48
Trichloroethene	U		0.43	1.4	µg/L	1	6/15/2021 23:48
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/15/2021 23:48
Vinyl chloride	U		0.53	1.8	µg/L	1	6/15/2021 23:48
Xylenes, Total	U		0.81	4.4	µg/L	1	6/15/2021 23:48
<i>Surr: 1,2-Dichloroethane-d4</i>	99.0			75-120	%REC	10	6/13/2021 17:15
<i>Surr: 1,2-Dichloroethane-d4</i>	106			75-120	%REC	1	6/15/2021 23:48
<i>Surr: 4-Bromofluorobenzene</i>	100			80-110	%REC	10	6/13/2021 17:15
<i>Surr: 4-Bromofluorobenzene</i>	97.8			80-110	%REC	1	6/15/2021 23:48
<i>Surr: Dibromofluoromethane</i>	100			85-115	%REC	10	6/13/2021 17:15
<i>Surr: Dibromofluoromethane</i>	101			85-115	%REC	1	6/15/2021 23:48
<i>Surr: Toluene-d8</i>	97.0			85-110	%REC	10	6/13/2021 17:15
<i>Surr: Toluene-d8</i>	97.9			85-110	%REC	1	6/15/2021 23:48

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111B
Collection Date: 6/1/2021 11:25 AM

Work Order: 21060304
Lab ID: 21060304-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 17:37
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 17:37
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 17:37
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 17:37
1,1-Dichloroethane	9.6		0.44	1.5	µg/L	1	6/13/2021 17:37
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 17:37
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 17:37
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 17:37
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 17:37
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 17:37
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 17:37
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 17:37
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 17:37
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 17:37
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 17:37
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 17:37
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 17:37
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 17:37
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 17:37
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 17:37
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 17:37
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 17:37
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 17:37
2-Propanol	55	J	33	110	µg/L	1	6/13/2021 17:37
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 17:37
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 17:37
Acetone	12	J	6.2	21	µg/L	1	6/13/2021 17:37
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 17:37
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 17:37
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 17:37
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 17:37
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 17:37
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 17:37
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 17:37
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 17:37
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 17:37
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 17:37
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 17:37

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-111B
Collection Date: 6/1/2021 11:25 AM

Work Order: 21060304
Lab ID: 21060304-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	2.1		0.42	1.4	µg/L	1	6/13/2021 17:37
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 17:37
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 17:37
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 17:37
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 17:37
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 17:37
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 17:37
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 17:37
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 17:37
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 17:37
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 17:37
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 17:37
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 17:37
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 17:37
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 17:37
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 17:37
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 17:37
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 17:37
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 17:37
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 17:37
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 17:37
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 17:37
trans-1,2-Dichloroethene	2.4		0.48	1.6	µg/L	1	6/13/2021 17:37
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 17:37
Trichloroethene	1.3	J	0.43	1.4	µg/L	1	6/13/2021 17:37
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 17:37
Vinyl chloride	2.2		0.53	1.8	µg/L	1	6/13/2021 17:37
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 17:37
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/13/2021 17:37
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/13/2021 17:37
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/13/2021 17:37
Surr: Toluene-d8	96.0			85-110	%REC	1	6/13/2021 17:37

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114
Collection Date: 6/1/2021 10:41 AM

Work Order: 21060304
Lab ID: 21060304-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 13:26
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 13:26
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 13:26
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 13:26
1,1-Dichloroethane	0.52	J	0.44	1.5	µg/L	1	6/14/2021 13:26
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 13:26
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 13:26
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 13:26
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 13:26
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 13:26
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 13:26
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 13:26
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 13:26
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 13:26
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 13:26
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 13:26
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 13:26
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 13:26
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 13:26
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 13:26
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 13:26
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 13:26
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 13:26
2-Propanol	U		33	110	µg/L	1	6/14/2021 13:26
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 13:26
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 13:26
Acetone	8.7	J	6.2	21	µg/L	1	6/13/2021 17:59
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 13:26
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 13:26
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 13:26
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 13:26
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 13:26
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 13:26
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 13:26
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 13:26
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 13:26
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 13:26
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 13:26

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114
Collection Date: 6/1/2021 10:41 AM

Work Order: 21060304
Lab ID: 21060304-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1.4	J	0.42	1.4	µg/L	1	6/14/2021 13:26
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 13:26
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 13:26
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 13:26
Dichlorodifluoromethane	1.5	J	0.68	2.3	µg/L	1	6/14/2021 13:26
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 13:26
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 13:26
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 13:26
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 13:26
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 13:26
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 13:26
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 13:26
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 13:26
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 13:26
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 13:26
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 13:26
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 13:26
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 13:26
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 13:26
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 13:26
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 13:26
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 13:26
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 13:26
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 13:26
Trichloroethene	1.8		0.43	1.4	µg/L	1	6/14/2021 13:26
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 13:26
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 13:26
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 13:26
Surr: 1,2-Dichloroethane-d4	99.2			75-120	%REC	1	6/13/2021 17:59
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/14/2021 13:26
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/13/2021 17:59
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/14/2021 13:26
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/13/2021 17:59
Surr: Dibromofluoromethane	99.8			85-115	%REC	1	6/14/2021 13:26
Surr: Toluene-d8	98.4			85-110	%REC	1	6/13/2021 17:59
Surr: Toluene-d8	96.6			85-110	%REC	1	6/14/2021 13:26

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114A
Collection Date: 6/1/2021 10:45 AM

Work Order: 21060304
Lab ID: 21060304-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 18:21
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 18:21
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 18:21
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 18:21
1,1-Dichloroethane	2.0		0.44	1.5	µg/L	1	6/13/2021 18:21
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 18:21
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 18:21
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 18:21
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 18:21
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 18:21
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 18:21
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 18:21
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 18:21
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 18:21
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 18:21
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 18:21
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 18:21
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 18:21
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 18:21
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 18:21
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 18:21
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 18:21
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 18:21
2-Propanol	U		33	110	µg/L	1	6/13/2021 18:21
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 18:21
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 18:21
Acetone	9.5	J	6.2	21	µg/L	1	6/13/2021 18:21
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 18:21
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 18:21
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 18:21
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 18:21
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 18:21
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 18:21
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 18:21
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 18:21
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 18:21
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 18:21
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 18:21

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114A
Collection Date: 6/1/2021 10:45 AM

Work Order: 21060304
Lab ID: 21060304-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1.2	J	0.42	1.4	µg/L	1	6/13/2021 18:21
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 18:21
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 18:21
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 18:21
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 18:21
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 18:21
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 18:21
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 18:21
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 18:21
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 18:21
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 18:21
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 18:21
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 18:21
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 18:21
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 18:21
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 18:21
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 18:21
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 18:21
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 18:21
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 18:21
Tetrachloroethene	14		0.39	1.3	µg/L	1	6/13/2021 18:21
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 18:21
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 18:21
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 18:21
Trichloroethene	6.0		0.43	1.4	µg/L	1	6/13/2021 18:21
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 18:21
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 18:21
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 18:21
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/13/2021 18:21
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/13/2021 18:21
Surr: Dibromofluoromethane	104			85-115	%REC	1	6/13/2021 18:21
Surr: Toluene-d8	97.2			85-110	%REC	1	6/13/2021 18:21

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114B
Collection Date: 6/1/2021 10:35 AM

Work Order: 21060304
Lab ID: 21060304-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 18:43
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 18:43
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 18:43
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 18:43
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 18:43
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 18:43
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 18:43
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 18:43
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 18:43
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 18:43
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 18:43
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 18:43
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 18:43
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 18:43
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 18:43
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 18:43
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 18:43
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 18:43
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 18:43
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 18:43
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 18:43
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 18:43
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 18:43
2-Propanol	39	J	33	110	µg/L	1	6/13/2021 18:43
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 18:43
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 18:43
Acetone	9.7	J	6.2	21	µg/L	1	6/13/2021 18:43
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 18:43
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 18:43
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 18:43
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 18:43
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 18:43
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 18:43
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 18:43
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 18:43
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 18:43
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 18:43
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 18:43

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-114B
Collection Date: 6/1/2021 10:35 AM

Work Order: 21060304
Lab ID: 21060304-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 18:43
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 18:43
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 18:43
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 18:43
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 18:43
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 18:43
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 18:43
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 18:43
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 18:43
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 18:43
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 18:43
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 18:43
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 18:43
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 18:43
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 18:43
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 18:43
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 18:43
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 18:43
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 18:43
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 18:43
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 18:43
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 18:43
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 18:43
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 18:43
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 18:43
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 18:43
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 18:43
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 18:43
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	6/13/2021 18:43
Surr: 4-Bromofluorobenzene	99.9			80-110	%REC	1	6/13/2021 18:43
Surr: Dibromofluoromethane	104			85-115	%REC	1	6/13/2021 18:43
Surr: Toluene-d8	98.8			85-110	%REC	1	6/13/2021 18:43

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Seep 2N
Collection Date: 6/1/2021 11:45 AM

Work Order: 21060304
Lab ID: 21060304-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 19:05
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 19:05
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 19:05
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 19:05
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 19:05
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 19:05
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 19:05
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 19:05
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:05
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:05
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:05
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 19:05
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 19:05
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 19:05
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 19:05
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 19:05
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 19:05
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 19:05
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:05
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:05
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 19:05
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 19:05
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 19:05
2-Propanol	U		33	110	µg/L	1	6/13/2021 19:05
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 19:05
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 19:05
Acetone	7.2	J	6.2	21	µg/L	1	6/13/2021 19:05
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 19:05
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 19:05
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 19:05
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 19:05
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 19:05
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 19:05
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 19:05
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 19:05
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 19:05
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 19:05
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 19:05

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Seep 2N
Collection Date: 6/1/2021 11:45 AM

Work Order: 21060304
Lab ID: 21060304-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 19:05
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 19:05
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 19:05
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 19:05
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 19:05
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 19:05
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:05
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 19:05
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:05
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 19:05
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 19:05
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 19:05
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 19:05
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:05
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 19:05
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 19:05
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 19:05
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 19:05
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 19:05
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 19:05
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 19:05
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 19:05
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 19:05
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 19:05
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 19:05
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 19:05
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 19:05
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 19:05
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/13/2021 19:05
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	1	6/13/2021 19:05
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 19:05
Surr: Toluene-d8	96.5			85-110	%REC	1	6/13/2021 19:05

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Seep 7N
Collection Date: 6/1/2021 11:50 AM

Work Order: 21060304
Lab ID: 21060304-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 19:27
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 19:27
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 19:27
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 19:27
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 19:27
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 19:27
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 19:27
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 19:27
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:27
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:27
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:27
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 19:27
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 19:27
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 19:27
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 19:27
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 19:27
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 19:27
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 19:27
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:27
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:27
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 19:27
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 19:27
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 19:27
2-Propanol	U		33	110	µg/L	1	6/13/2021 19:27
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 19:27
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 19:27
Acetone	U		6.2	21	µg/L	1	6/13/2021 19:27
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 19:27
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 19:27
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 19:27
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 19:27
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 19:27
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 19:27
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 19:27
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 19:27
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 19:27
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 19:27
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 19:27

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Seep 7N
Collection Date: 6/1/2021 11:50 AM

Work Order: 21060304
Lab ID: 21060304-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 19:27
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 19:27
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 19:27
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 19:27
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 19:27
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 19:27
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:27
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 19:27
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:27
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 19:27
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 19:27
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 19:27
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 19:27
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:27
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 19:27
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 19:27
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 19:27
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 19:27
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 19:27
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 19:27
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 19:27
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 19:27
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 19:27
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 19:27
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 19:27
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 19:27
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 19:27
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 19:27
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/13/2021 19:27
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	1	6/13/2021 19:27
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 19:27
Surr: Toluene-d8	95.2			85-110	%REC	1	6/13/2021 19:27

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank-1
Collection Date: 6/1/2021

Work Order: 21060304
Lab ID: 21060304-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 13:11
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 13:11
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 13:11
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 13:11
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 13:11
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 13:11
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 13:11
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 13:11
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 13:11
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 13:11
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 13:11
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 13:11
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 13:11
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 13:11
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 13:11
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 13:11
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 13:11
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 13:11
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 13:11
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 13:11
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 13:11
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 13:11
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 13:11
2-Propanol	U		33	110	µg/L	1	6/13/2021 13:11
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 13:11
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 13:11
Acetone	U		6.2	21	µg/L	1	6/13/2021 13:11
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 13:11
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 13:11
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 13:11
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 13:11
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 13:11
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 13:11
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 13:11
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 13:11
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 13:11
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 13:11
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 13:11

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank-1
Collection Date: 6/1/2021

Work Order: 21060304
Lab ID: 21060304-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 13:11
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 13:11
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 13:11
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 13:11
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 13:11
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 13:11
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 13:11
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 13:11
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 13:11
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 13:11
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 13:11
Methylene chloride	1.1	J	0.86	2.9	µg/L	1	6/13/2021 13:11
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 13:11
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 13:11
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 13:11
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 13:11
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 13:11
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 13:11
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 13:11
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 13:11
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 13:11
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 13:11
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 13:11
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 13:11
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 13:11
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 13:11
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 13:11
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 13:11
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1	6/13/2021 13:11
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/13/2021 13:11
Surr: Dibromofluoromethane	99.6			85-115	%REC	1	6/13/2021 13:11
Surr: Toluene-d8	97.0			85-110	%REC	1	6/13/2021 13:11

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2A
Collection Date: 6/2/2021 01:45 PM

Work Order: 21060304
Lab ID: 21060304-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 19:50
1,1,1-Trichloroethane	2.2		0.46	1.5	µg/L	1	6/13/2021 19:50
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 19:50
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 19:50
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 19:50
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 19:50
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 19:50
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 19:50
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:50
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:50
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 19:50
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 19:50
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 19:50
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 19:50
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 19:50
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 19:50
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 19:50
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 19:50
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 19:50
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:50
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 19:50
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 19:50
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 19:50
2-Propanol	U		33	110	µg/L	1	6/13/2021 19:50
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 19:50
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 19:50
Acetone	8.5	J	6.2	21	µg/L	1	6/13/2021 19:50
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 19:50
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 19:50
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 19:50
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 19:50
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 19:50
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 19:50
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 19:50
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 19:50
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 19:50
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 19:50
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 19:50

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2A
Collection Date: 6/2/2021 01:45 PM

Work Order: 21060304
Lab ID: 21060304-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 19:50
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 19:50
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 19:50
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 19:50
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 19:50
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 19:50
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:50
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 19:50
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 19:50
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 19:50
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 19:50
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 19:50
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 19:50
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 19:50
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 19:50
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 19:50
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 19:50
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 19:50
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 19:50
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 19:50
Tetrachloroethene	6.1		0.39	1.3	µg/L	1	6/13/2021 19:50
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 19:50
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 19:50
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 19:50
Trichloroethene	0.57	J	0.43	1.4	µg/L	1	6/13/2021 19:50
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 19:50
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 19:50
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 19:50
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/13/2021 19:50
Surr: 4-Bromofluorobenzene	99.8			80-110	%REC	1	6/13/2021 19:50
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 19:50
Surr: Toluene-d8	95.9			85-110	%REC	1	6/13/2021 19:50

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2B
Collection Date: 6/2/2021 01:40 PM

Work Order: 21060304
Lab ID: 21060304-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/13/2021 20:12
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 20:12
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/13/2021 20:12
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/13/2021 20:12
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/13/2021 20:12
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/13/2021 20:12
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/13/2021 20:12
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/13/2021 20:12
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 20:12
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/13/2021 20:12
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/13/2021 20:12
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/13/2021 20:12
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/13/2021 20:12
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/13/2021 20:12
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/13/2021 20:12
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/13/2021 20:12
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/13/2021 20:12
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/13/2021 20:12
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/13/2021 20:12
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/13/2021 20:12
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/13/2021 20:12
2-Butanone	U		0.52	1.7	µg/L	1	6/13/2021 20:12
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/13/2021 20:12
2-Propanol	U		33	110	µg/L	1	6/13/2021 20:12
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/13/2021 20:12
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/13/2021 20:12
Acetone	U		6.2	21	µg/L	1	6/13/2021 20:12
Benzene	U		0.46	1.5	µg/L	1	6/13/2021 20:12
Bromobenzene	U		0.38	1.3	µg/L	1	6/13/2021 20:12
Bromochloromethane	U		0.45	1.5	µg/L	1	6/13/2021 20:12
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/13/2021 20:12
Bromoform	U		0.56	1.9	µg/L	1	6/13/2021 20:12
Bromomethane	U		0.90	3.0	µg/L	1	6/13/2021 20:12
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/13/2021 20:12
Chlorobenzene	U		0.40	1.3	µg/L	1	6/13/2021 20:12
Chloroethane	U		0.68	2.3	µg/L	1	6/13/2021 20:12
Chloroform	U		0.46	1.5	µg/L	1	6/13/2021 20:12
Chloromethane	U		0.83	2.8	µg/L	1	6/13/2021 20:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2B
Collection Date: 6/2/2021 01:40 PM

Work Order: 21060304
Lab ID: 21060304-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/13/2021 20:12
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/13/2021 20:12
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/13/2021 20:12
Dibromomethane	U		0.65	2.2	µg/L	1	6/13/2021 20:12
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/13/2021 20:12
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/13/2021 20:12
Ethylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 20:12
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/13/2021 20:12
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/13/2021 20:12
m,p-Xylene	U		0.81	2.7	µg/L	1	6/13/2021 20:12
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/13/2021 20:12
Methylene chloride	U		0.86	2.9	µg/L	1	6/13/2021 20:12
Naphthalene	U		0.77	2.6	µg/L	1	6/13/2021 20:12
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/13/2021 20:12
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/13/2021 20:12
o-Xylene	U		0.31	1.0	µg/L	1	6/13/2021 20:12
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/13/2021 20:12
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/13/2021 20:12
Styrene	U		0.33	1.1	µg/L	1	6/13/2021 20:12
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/13/2021 20:12
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/13/2021 20:12
Toluene	U		0.45	1.5	µg/L	1	6/13/2021 20:12
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/13/2021 20:12
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/13/2021 20:12
Trichloroethene	U		0.43	1.4	µg/L	1	6/13/2021 20:12
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/13/2021 20:12
Vinyl chloride	U		0.53	1.8	µg/L	1	6/13/2021 20:12
Xylenes, Total	U		0.81	4.4	µg/L	1	6/13/2021 20:12
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/13/2021 20:12
Surr: 4-Bromofluorobenzene	99.2			80-110	%REC	1	6/13/2021 20:12
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/13/2021 20:12
Surr: Toluene-d8	98.2			85-110	%REC	1	6/13/2021 20:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3A
Collection Date: 6/2/2021 08:20 AM

Work Order: 21060304
Lab ID: 21060304-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 00:59
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 00:59
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 00:59
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 00:59
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 00:59
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 00:59
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 00:59
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 00:59
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 00:59
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 00:59
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 00:59
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 00:59
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 00:59
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 00:59
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 00:59
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 00:59
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 00:59
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 00:59
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 00:59
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 00:59
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 00:59
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 00:59
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 00:59
2-Propanol	U		33	110	µg/L	1	6/14/2021 00:59
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 00:59
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 00:59
Acetone	7.6	J	6.2	21	µg/L	1	6/14/2021 00:59
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 00:59
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 00:59
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 00:59
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 00:59
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 00:59
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 00:59
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 00:59
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 00:59
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 00:59
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 00:59
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 00:59

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3A
Collection Date: 6/2/2021 08:20 AM

Work Order: 21060304
Lab ID: 21060304-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 00:59
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 00:59
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 00:59
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 00:59
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 00:59
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 00:59
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 00:59
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 00:59
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 00:59
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 00:59
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 00:59
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 00:59
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 00:59
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 00:59
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 00:59
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 00:59
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 00:59
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 00:59
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 00:59
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 00:59
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 00:59
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 00:59
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 00:59
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 00:59
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 00:59
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 00:59
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 00:59
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 00:59
Surr: 1,2-Dichloroethane-d4	98.7			75-120	%REC	1	6/14/2021 00:59
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/14/2021 00:59
Surr: Dibromofluoromethane	99.0			85-115	%REC	1	6/14/2021 00:59
Surr: Toluene-d8	98.1			85-110	%REC	1	6/14/2021 00:59

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3B
Collection Date: 6/2/2021 08:15 AM

Work Order: 21060304
Lab ID: 21060304-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 01:22
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 01:22
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 01:22
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 01:22
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 01:22
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 01:22
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 01:22
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 01:22
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 01:22
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 01:22
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 01:22
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 01:22
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 01:22
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 01:22
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 01:22
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 01:22
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 01:22
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 01:22
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 01:22
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 01:22
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 01:22
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 01:22
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 01:22
2-Propanol	U		33	110	µg/L	1	6/14/2021 01:22
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 01:22
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 01:22
Acetone	U		6.2	21	µg/L	1	6/14/2021 01:22
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 01:22
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 01:22
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 01:22
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 01:22
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 01:22
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 01:22
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 01:22
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 01:22
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 01:22
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 01:22
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 01:22

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3B
Collection Date: 6/2/2021 08:15 AM

Work Order: 21060304
Lab ID: 21060304-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 01:22
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 01:22
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 01:22
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 01:22
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 01:22
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 01:22
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 01:22
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 01:22
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 01:22
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 01:22
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 01:22
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 01:22
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 01:22
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 01:22
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 01:22
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 01:22
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 01:22
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 01:22
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 01:22
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 01:22
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 01:22
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 01:22
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 01:22
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 01:22
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 01:22
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 01:22
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 01:22
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 01:22
Surr: 1,2-Dichloroethane-d4	98.4			75-120	%REC	1	6/14/2021 01:22
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	6/14/2021 01:22
Surr: Dibromofluoromethane	99.2			85-115	%REC	1	6/14/2021 01:22
Surr: Toluene-d8	98.2			85-110	%REC	1	6/14/2021 01:22

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17
Collection Date: 6/2/2021 09:50 AM

Work Order: 21060304
Lab ID: 21060304-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 01:44
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 01:44
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 01:44
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 01:44
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 01:44
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 01:44
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 01:44
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 01:44
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 01:44
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 01:44
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 01:44
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 01:44
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 01:44
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 01:44
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 01:44
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 01:44
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 01:44
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 01:44
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 01:44
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 01:44
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 01:44
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 01:44
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 01:44
2-Propanol	U		33	110	µg/L	1	6/14/2021 01:44
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 01:44
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 01:44
Acetone	U		6.2	21	µg/L	1	6/14/2021 01:44
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 01:44
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 01:44
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 01:44
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 01:44
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 01:44
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 01:44
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 01:44
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 01:44
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 01:44
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 01:44
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 01:44

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17
Collection Date: 6/2/2021 09:50 AM

Work Order: 21060304
Lab ID: 21060304-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 01:44
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 01:44
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 01:44
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 01:44
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 01:44
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 01:44
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 01:44
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 01:44
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 01:44
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 01:44
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 01:44
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 01:44
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 01:44
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 01:44
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 01:44
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 01:44
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 01:44
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 01:44
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 01:44
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 01:44
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 01:44
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 01:44
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 01:44
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 01:44
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 01:44
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 01:44
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 01:44
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 01:44
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/14/2021 01:44
Surr: 4-Bromofluorobenzene	99.3			80-110	%REC	1	6/14/2021 01:44
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/14/2021 01:44
Surr: Toluene-d8	96.0			85-110	%REC	1	6/14/2021 01:44

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17A
Collection Date: 6/2/2021 10:00 AM

Work Order: 21060304
Lab ID: 21060304-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: DMC	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	6/14/2021 19:41
1,1,1-Trichloroethane	U		2.3	7.6	µg/L	5	6/14/2021 19:41
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	6/14/2021 19:41
1,1,2-Trichloroethane	U		2.3	7.7	µg/L	5	6/14/2021 19:41
1,1-Dichloroethane	87		2.2	7.4	µg/L	5	6/14/2021 19:41
1,1-Dichloroethene	U		2.0	6.8	µg/L	5	6/14/2021 19:41
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	6/14/2021 19:41
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	6/14/2021 19:41
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 19:41
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	6/14/2021 19:41
1,2,4-Trimethylbenzene	U		2.2	7.5	µg/L	5	6/14/2021 19:41
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	6/14/2021 19:41
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	6/14/2021 19:41
1,2-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/14/2021 19:41
1,2-Dichloroethane	U		2.2	7.2	µg/L	5	6/14/2021 19:41
1,2-Dichloropropane	U		2.4	8.0	µg/L	5	6/14/2021 19:41
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	6/14/2021 19:41
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/14/2021 19:41
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 19:41
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	6/14/2021 19:41
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	6/14/2021 19:41
2-Butanone	U		2.6	8.6	µg/L	5	6/14/2021 19:41
2-Chlorotoluene	U		1.8	6.0	µg/L	5	6/14/2021 19:41
2-Propanol	U		820	2,700	µg/L	25	6/14/2021 02:06
4-Chlorotoluene	U		1.6	5.1	µg/L	5	6/14/2021 19:41
4-Methyl-2-pentanone	890		13	43	µg/L	25	6/14/2021 13:13
Acetone	360		31	100	µg/L	5	6/14/2021 19:41
Benzene	12		2.3	7.6	µg/L	5	6/14/2021 19:41
Bromobenzene	U		1.9	6.3	µg/L	5	6/14/2021 19:41
Bromochloromethane	U		2.2	7.4	µg/L	5	6/14/2021 19:41
Bromodichloromethane	U		2.4	8.2	µg/L	5	6/14/2021 19:41
Bromoform	U		2.8	9.4	µg/L	5	6/14/2021 19:41
Bromomethane	U		4.5	15	µg/L	5	6/14/2021 19:41
Carbon tetrachloride	U		2.0	6.8	µg/L	5	6/14/2021 19:41
Chlorobenzene	U		2.0	6.7	µg/L	5	6/14/2021 19:41
Chloroethane	1,300		17	57	µg/L	25	6/14/2021 13:13
Chloroform	U		2.3	7.6	µg/L	5	6/14/2021 19:41
Chloromethane	U		4.2	14	µg/L	5	6/14/2021 19:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17A
Collection Date: 6/2/2021 10:00 AM

Work Order: 21060304
Lab ID: 21060304-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	3.6	J	2.1	6.9	µg/L	5	6/14/2021 19:41
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	6/14/2021 19:41
Dibromochloromethane	U		2.0	6.6	µg/L	5	6/14/2021 19:41
Dibromomethane	U		3.2	11	µg/L	5	6/14/2021 19:41
Dichlorodifluoromethane	U		3.4	11	µg/L	5	6/14/2021 19:41
Diisopropyl ether	2.0	J	2.0	6.8	µg/L	5	6/14/2021 19:41
Ethylbenzene	U		1.7	5.6	µg/L	5	6/14/2021 19:41
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	6/14/2021 19:41
Isopropylbenzene	U		1.8	5.8	µg/L	5	6/14/2021 19:41
m,p-Xylene	U		4.0	14	µg/L	5	6/14/2021 19:41
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	6/14/2021 19:41
Methylene chloride	U		4.3	14	µg/L	5	6/14/2021 19:41
Naphthalene	U		3.8	13	µg/L	5	6/14/2021 19:41
n-Butylbenzene	U		1.7	5.6	µg/L	5	6/14/2021 19:41
n-Propylbenzene	U		2.4	8.0	µg/L	5	6/14/2021 19:41
o-Xylene	1.9	J	1.6	5.2	µg/L	5	6/14/2021 19:41
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	6/14/2021 19:41
sec-Butylbenzene	U		1.5	5.0	µg/L	5	6/14/2021 19:41
Styrene	U		1.6	5.6	µg/L	5	6/14/2021 19:41
tert-Butylbenzene	U		2.0	6.6	µg/L	5	6/14/2021 19:41
Tetrachloroethene	U		2.0	6.6	µg/L	5	6/14/2021 19:41
Toluene	910		11	38	µg/L	25	6/14/2021 13:13
trans-1,2-Dichloroethene	13		2.4	8.0	µg/L	5	6/14/2021 19:41
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	6/14/2021 19:41
Trichloroethene	U		2.2	7.2	µg/L	5	6/14/2021 19:41
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	6/14/2021 19:41
Vinyl chloride	4.0	J	2.6	8.8	µg/L	5	6/14/2021 19:41
Xylenes, Total	U		4.0	22	µg/L	5	6/14/2021 19:41
Surr: 1,2-Dichloroethane-d4	96.8			75-120	%REC	25	6/14/2021 02:06
Surr: 1,2-Dichloroethane-d4	99.3			75-120	%REC	25	6/14/2021 13:13
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	5	6/14/2021 19:41
Surr: 4-Bromofluorobenzene	103			80-110	%REC	25	6/14/2021 02:06
Surr: 4-Bromofluorobenzene	97.0			80-110	%REC	25	6/14/2021 13:13
Surr: 4-Bromofluorobenzene	96.1			80-110	%REC	5	6/14/2021 19:41
Surr: Dibromofluoromethane	99.3			85-115	%REC	25	6/14/2021 02:06
Surr: Dibromofluoromethane	100			85-115	%REC	25	6/14/2021 13:13
Surr: Dibromofluoromethane	96.3			85-115	%REC	5	6/14/2021 19:41
Surr: Toluene-d8	96.8			85-110	%REC	25	6/14/2021 02:06
Surr: Toluene-d8	99.0			85-110	%REC	25	6/14/2021 13:13
Surr: Toluene-d8	100			85-110	%REC	5	6/14/2021 19:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17B
Collection Date: 6/2/2021 10:10 AM

Work Order: 21060304
Lab ID: 21060304-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 02:28
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 02:28
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 02:28
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 02:28
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 02:28
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 02:28
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 02:28
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 02:28
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 02:28
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 02:28
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 02:28
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 02:28
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 02:28
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 02:28
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 02:28
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 02:28
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 02:28
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 02:28
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 02:28
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 02:28
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 02:28
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 02:28
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 02:28
2-Propanol	U		33	110	µg/L	1	6/14/2021 02:28
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 02:28
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 02:28
Acetone	U		6.2	21	µg/L	1	6/14/2021 02:28
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 02:28
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 02:28
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 02:28
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 02:28
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 02:28
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 02:28
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 02:28
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 02:28
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 02:28
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 02:28
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 02:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-17B
Collection Date: 6/2/2021 10:10 AM

Work Order: 21060304
Lab ID: 21060304-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 02:28
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 02:28
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 02:28
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 02:28
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 02:28
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 02:28
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 02:28
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 02:28
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 02:28
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 02:28
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 02:28
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 02:28
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 02:28
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 02:28
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 02:28
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 02:28
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 02:28
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 02:28
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 02:28
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 02:28
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 02:28
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 02:28
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 02:28
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 02:28
Trichloroethene	1.1	J	0.43	1.4	µg/L	1	6/14/2021 02:28
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 02:28
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 02:28
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 02:28
Surr: 1,2-Dichloroethane-d4	98.8			75-120	%REC	1	6/14/2021 02:28
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/14/2021 02:28
Surr: Dibromofluoromethane	99.0			85-115	%REC	1	6/14/2021 02:28
Surr: Toluene-d8	98.0			85-110	%REC	1	6/14/2021 02:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2C
Collection Date: 6/2/2021 12:45 PM

Work Order: 21060304
Lab ID: 21060304-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 13:41
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 13:41
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 13:41
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 13:41
1,1-Dichloroethane	0.83	J	0.44	1.5	µg/L	1	6/14/2021 13:41
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 13:41
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 13:41
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 13:41
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 13:41
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 13:41
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 13:41
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 13:41
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 13:41
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 13:41
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 13:41
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 13:41
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 13:41
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 13:41
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 13:41
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 13:41
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 13:41
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 13:41
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 13:41
2-Propanol	U		33	110	µg/L	1	6/14/2021 13:41
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 13:41
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 13:41
Acetone	U		6.2	21	µg/L	1	6/14/2021 13:41
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 13:41
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 13:41
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 13:41
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 13:41
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 13:41
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 13:41
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 13:41
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 13:41
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 13:41
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 13:41
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 13:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2C
Collection Date: 6/2/2021 12:45 PM

Work Order: 21060304
Lab ID: 21060304-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	8.1		0.42	1.4	µg/L	1	6/14/2021 13:41
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 13:41
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 13:41
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 13:41
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 13:41
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 13:41
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 13:41
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 13:41
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 13:41
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 13:41
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 13:41
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 13:41
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 13:41
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 13:41
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 13:41
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 13:41
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 13:41
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 13:41
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 13:41
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 13:41
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 13:41
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 13:41
trans-1,2-Dichloroethene	4.8		0.48	1.6	µg/L	1	6/14/2021 13:41
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 13:41
Trichloroethene	24		0.43	1.4	µg/L	1	6/14/2021 13:41
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 13:41
Vinyl chloride	0.88	J	0.53	1.8	µg/L	1	6/14/2021 13:41
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 13:41
Surr: 1,2-Dichloroethane-d4	107			75-120	%REC	1	6/14/2021 13:41
Surr: 4-Bromofluorobenzene	96.8			80-110	%REC	1	6/14/2021 13:41
Surr: Dibromofluoromethane	97.7			85-115	%REC	1	6/14/2021 13:41
Surr: Toluene-d8	98.8			85-110	%REC	1	6/14/2021 13:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-27
Collection Date: 6/2/2021 11:25 AM

Work Order: 21060304
Lab ID: 21060304-26
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 03:12
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 03:12
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 03:12
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 03:12
1,1-Dichloroethane	0.83	J	0.44	1.5	µg/L	1	6/14/2021 03:12
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 03:12
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 03:12
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 03:12
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 03:12
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 03:12
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 03:12
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 03:12
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 03:12
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 03:12
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 03:12
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 03:12
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 03:12
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 03:12
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 03:12
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 03:12
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 03:12
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 03:12
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 03:12
2-Propanol	U		33	110	µg/L	1	6/14/2021 03:12
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 03:12
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 03:12
Acetone	U		6.2	21	µg/L	1	6/14/2021 03:12
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 03:12
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 03:12
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 03:12
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 03:12
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 03:12
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 03:12
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 03:12
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 03:12
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 03:12
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 03:12
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 03:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-27
Collection Date: 6/2/2021 11:25 AM

Work Order: 21060304
Lab ID: 21060304-26
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1.9		0.42	1.4	µg/L	1	6/14/2021 03:12
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 03:12
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 03:12
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 03:12
Dichlorodifluoromethane	0.86	J	0.68	2.3	µg/L	1	6/14/2021 03:12
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 03:12
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 03:12
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 03:12
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 03:12
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 03:12
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 03:12
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 03:12
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 03:12
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 03:12
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 03:12
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 03:12
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 03:12
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 03:12
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 03:12
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 03:12
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 03:12
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 03:12
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 03:12
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 03:12
Trichloroethene	0.97	J	0.43	1.4	µg/L	1	6/14/2021 03:12
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 03:12
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 03:12
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 03:12
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1	6/14/2021 03:12
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/14/2021 03:12
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/14/2021 03:12
Surr: Toluene-d8	96.0			85-110	%REC	1	6/14/2021 03:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-29
Collection Date: 6/2/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-27
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 03:35
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 03:35
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 03:35
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 03:35
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 03:35
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 03:35
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 03:35
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 03:35
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 03:35
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 03:35
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 03:35
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 03:35
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 03:35
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 03:35
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 03:35
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 03:35
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 03:35
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 03:35
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 03:35
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 03:35
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 03:35
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 03:35
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 03:35
2-Propanol	U		33	110	µg/L	1	6/14/2021 03:35
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 03:35
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 03:35
Acetone	U		6.2	21	µg/L	1	6/14/2021 03:35
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 03:35
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 03:35
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 03:35
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 03:35
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 03:35
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 03:35
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 03:35
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 03:35
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 03:35
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 03:35
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 03:35

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-29
Collection Date: 6/2/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-27
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 03:35
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 03:35
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 03:35
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 03:35
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 03:35
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 03:35
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 03:35
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 03:35
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 03:35
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 03:35
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 03:35
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 03:35
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 03:35
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 03:35
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 03:35
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 03:35
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 03:35
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 03:35
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 03:35
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 03:35
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 03:35
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 03:35
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 03:35
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 03:35
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 03:35
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 03:35
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 03:35
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 03:35
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/14/2021 03:35
Surr: 4-Bromofluorobenzene	96.9			80-110	%REC	1	6/14/2021 03:35
Surr: Dibromofluoromethane	103			85-115	%REC	1	6/14/2021 03:35
Surr: Toluene-d8	95.3			85-110	%REC	1	6/14/2021 03:35

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-31A
Collection Date: 6/2/2021 01:15 PM

Work Order: 21060304
Lab ID: 21060304-28
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/16/2021 00:54
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/16/2021 00:54
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/16/2021 00:54
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/16/2021 00:54
1,1-Dichloroethane	3.1		0.44	1.5	µg/L	1	6/16/2021 00:54
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/16/2021 00:54
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/16/2021 00:54
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/16/2021 00:54
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 00:54
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/16/2021 00:54
1,2,4-Trimethylbenzene	1.1	J	0.45	1.5	µg/L	1	6/16/2021 00:54
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/16/2021 00:54
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/16/2021 00:54
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/16/2021 00:54
1,2-Dichloroethane	0.74	J	0.44	1.4	µg/L	1	6/16/2021 00:54
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/16/2021 00:54
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/16/2021 00:54
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/16/2021 00:54
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 00:54
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/16/2021 00:54
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/16/2021 00:54
2-Butanone	U		0.52	1.7	µg/L	1	6/16/2021 00:54
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/16/2021 00:54
2-Propanol	U		33	110	µg/L	1	6/16/2021 00:54
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/16/2021 00:54
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/16/2021 00:54
Acetone	9.9	J	6.2	21	µg/L	1	6/16/2021 00:54
Benzene	0.93	J	0.46	1.5	µg/L	1	6/16/2021 00:54
Bromobenzene	U		0.38	1.3	µg/L	1	6/16/2021 00:54
Bromochloromethane	U		0.45	1.5	µg/L	1	6/16/2021 00:54
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/16/2021 00:54
Bromoform	U		0.56	1.9	µg/L	1	6/16/2021 00:54
Bromomethane	U		0.90	3.0	µg/L	1	6/16/2021 00:54
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/16/2021 00:54
Chlorobenzene	U		0.40	1.3	µg/L	1	6/16/2021 00:54
Chloroethane	16		0.68	2.3	µg/L	1	6/16/2021 00:54
Chloroform	U		0.46	1.5	µg/L	1	6/16/2021 00:54
Chloromethane	U		0.83	2.8	µg/L	1	6/16/2021 00:54

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-31A
Collection Date: 6/2/2021 01:15 PM

Work Order: 21060304
Lab ID: 21060304-28
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/16/2021 00:54
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/16/2021 00:54
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/16/2021 00:54
Dibromomethane	U		0.65	2.2	µg/L	1	6/16/2021 00:54
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/16/2021 00:54
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/16/2021 00:54
Ethylbenzene	30		0.34	1.1	µg/L	1	6/16/2021 00:54
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/16/2021 00:54
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/16/2021 00:54
m,p-Xylene	45		0.81	2.7	µg/L	1	6/16/2021 00:54
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/16/2021 00:54
Methylene chloride	U		0.86	2.9	µg/L	1	6/16/2021 00:54
Naphthalene	U		0.77	2.6	µg/L	1	6/16/2021 00:54
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 00:54
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/16/2021 00:54
o-Xylene	14		0.31	1.0	µg/L	1	6/16/2021 00:54
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/16/2021 00:54
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/16/2021 00:54
Styrene	U		0.33	1.1	µg/L	1	6/16/2021 00:54
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/16/2021 00:54
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/16/2021 00:54
Toluene	260		2.2	7.6	µg/L	5	6/14/2021 03:57
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/16/2021 00:54
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/16/2021 00:54
Trichloroethene	U		0.43	1.4	µg/L	1	6/16/2021 00:54
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/16/2021 00:54
Vinyl chloride	U		0.53	1.8	µg/L	1	6/16/2021 00:54
Xylenes, Total	60		0.81	4.4	µg/L	1	6/16/2021 00:54
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	5	6/14/2021 03:57
Surr: 1,2-Dichloroethane-d4	97.0			75-120	%REC	1	6/16/2021 00:54
Surr: 4-Bromofluorobenzene	100			80-110	%REC	5	6/14/2021 03:57
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/16/2021 00:54
Surr: Dibromofluoromethane	101			85-115	%REC	5	6/14/2021 03:57
Surr: Dibromofluoromethane	94.2			85-115	%REC	1	6/16/2021 00:54
Surr: Toluene-d8	97.0			85-110	%REC	5	6/14/2021 03:57
Surr: Toluene-d8	99.0			85-110	%REC	1	6/16/2021 00:54

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-31B
Collection Date: 6/2/2021 01:20 PM

Work Order: 21060304
Lab ID: 21060304-29
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 04:19
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 04:19
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 04:19
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 04:19
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 04:19
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 04:19
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 04:19
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 04:19
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 04:19
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 04:19
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 04:19
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 04:19
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 04:19
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 04:19
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 04:19
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 04:19
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 04:19
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 04:19
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 04:19
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 04:19
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 04:19
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 04:19
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 04:19
2-Propanol	U		33	110	µg/L	1	6/14/2021 04:19
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 04:19
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 04:19
Acetone	U		6.2	21	µg/L	1	6/14/2021 04:19
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 04:19
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 04:19
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 04:19
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 04:19
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 04:19
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 04:19
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 04:19
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 04:19
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 04:19
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 04:19
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 04:19

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-31B
Collection Date: 6/2/2021 01:20 PM

Work Order: 21060304
Lab ID: 21060304-29
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 04:19
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 04:19
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 04:19
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 04:19
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 04:19
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 04:19
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 04:19
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 04:19
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 04:19
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 04:19
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 04:19
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 04:19
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 04:19
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 04:19
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 04:19
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 04:19
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 04:19
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 04:19
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 04:19
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 04:19
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 04:19
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 04:19
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 04:19
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 04:19
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 04:19
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 04:19
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 04:19
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 04:19
Surr: 1,2-Dichloroethane-d4	99.5			75-120	%REC	1	6/14/2021 04:19
Surr: 4-Bromofluorobenzene	99.0			80-110	%REC	1	6/14/2021 04:19
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	6/14/2021 04:19
Surr: Toluene-d8	94.5			85-110	%REC	1	6/14/2021 04:19

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-32
Collection Date: 6/2/2021 10:10 AM

Work Order: 21060304
Lab ID: 21060304-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175			Analyst: JZB	
Ethane	3.1	J	1.5	5.0	µg/L	1	6/14/2021 16:53
Ethene	110		1.7	5.0	µg/L	1	6/14/2021 16:53
Methane	3.7	J	2.0	5.0	µg/L	1	6/14/2021 16:53
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B			Prep: SW3005A / 6/10/21 Analyst: DSC	
Iron	3.0		0.050	0.17	mg/L	1	6/10/2021 13:57
Manganese	10		0.025	0.083	mg/L	10	6/11/2021 16:12
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B			Analyst: JNS	
1,4-Dioxane	U		2.2	5.0	µg/L	5	6/15/2021 20:52
Surr: Toluene-d8	92.8			74-124	%REC	5	6/15/2021 20:52
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	6/14/2021 04:41
1,1,1-Trichloroethane	8,400		230	760	µg/L	500	6/14/2021 13:37
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	6/14/2021 04:41
1,1,2-Trichloroethane	58		2.3	7.7	µg/L	5	6/14/2021 04:41
1,1-Dichloroethane	2,600		220	740	µg/L	500	6/14/2021 13:37
1,1-Dichloroethene	1,300		200	680	µg/L	500	6/14/2021 13:37
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	6/14/2021 04:41
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	6/14/2021 04:41
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 04:41
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	6/14/2021 04:41
1,2,4-Trimethylbenzene	U		2.2	7.5	µg/L	5	6/14/2021 04:41
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	6/14/2021 04:41
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	6/14/2021 04:41
1,2-Dichlorobenzene	3.3	J	1.6	5.4	µg/L	5	6/14/2021 04:41
1,2-Dichloroethane	38		2.2	7.2	µg/L	5	6/14/2021 04:41
1,2-Dichloropropane	90		2.4	8.0	µg/L	5	6/14/2021 04:41
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	6/14/2021 04:41
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/14/2021 04:41
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 04:41
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	6/14/2021 04:41
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	6/14/2021 04:41
2-Butanone	U		2.6	8.6	µg/L	5	6/14/2021 04:41
2-Chlorotoluene	U		1.8	6.0	µg/L	5	6/14/2021 04:41
2-Propanol	U		160	540	µg/L	5	6/14/2021 04:41
4-Chlorotoluene	U		1.6	5.1	µg/L	5	6/14/2021 04:41
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	6/14/2021 04:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-32
Collection Date: 6/2/2021 10:10 AM

Work Order: 21060304
Lab ID: 21060304-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	94	J	31	100	µg/L	5	6/14/2021 04:41
Benzene	3.4	J	2.3	7.6	µg/L	5	6/14/2021 04:41
Bromobenzene	U		1.9	6.3	µg/L	5	6/14/2021 04:41
Bromochloromethane	U		2.2	7.4	µg/L	5	6/14/2021 04:41
Bromodichloromethane	U		2.4	8.2	µg/L	5	6/14/2021 04:41
Bromoform	U		2.8	9.4	µg/L	5	6/14/2021 04:41
Bromomethane	U		4.5	15	µg/L	5	6/14/2021 04:41
Carbon tetrachloride	U		2.0	6.8	µg/L	5	6/14/2021 04:41
Chlorobenzene	U		2.0	6.7	µg/L	5	6/14/2021 04:41
Chloroethane	30		3.4	11	µg/L	5	6/14/2021 04:41
Chloroform	27		2.3	7.6	µg/L	5	6/14/2021 04:41
Chloromethane	U		4.2	14	µg/L	5	6/14/2021 04:41
cis-1,2-Dichloroethene	12,000		210	690	µg/L	500	6/14/2021 13:37
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	6/14/2021 04:41
Dibromochloromethane	U		2.0	6.6	µg/L	5	6/14/2021 04:41
Dibromomethane	U		3.2	11	µg/L	5	6/14/2021 04:41
Dichlorodifluoromethane	U		3.4	11	µg/L	5	6/14/2021 04:41
Diisopropyl ether	U		2.0	6.8	µg/L	5	6/14/2021 04:41
Ethylbenzene	U		1.7	5.6	µg/L	5	6/14/2021 04:41
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	6/14/2021 04:41
Isopropylbenzene	U		1.8	5.8	µg/L	5	6/14/2021 04:41
m,p-Xylene	U		4.0	14	µg/L	5	6/14/2021 04:41
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	6/14/2021 04:41
Methylene chloride	14		4.3	14	µg/L	5	6/14/2021 04:41
Naphthalene	U		3.8	13	µg/L	5	6/14/2021 04:41
n-Butylbenzene	U		1.7	5.6	µg/L	5	6/14/2021 04:41
n-Propylbenzene	U		2.4	8.0	µg/L	5	6/14/2021 04:41
o-Xylene	2.2	J	1.6	5.2	µg/L	5	6/14/2021 04:41
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	6/14/2021 04:41
sec-Butylbenzene	U		1.5	5.0	µg/L	5	6/14/2021 04:41
Styrene	U		1.6	5.6	µg/L	5	6/14/2021 04:41
tert-Butylbenzene	U		2.0	6.6	µg/L	5	6/14/2021 04:41
Tetrachloroethene	730		200	660	µg/L	500	6/14/2021 13:37
Toluene	U		2.2	7.6	µg/L	5	6/14/2021 04:41
trans-1,2-Dichloroethene	12		2.4	8.0	µg/L	5	6/14/2021 04:41
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	6/14/2021 04:41
Trichloroethene	1,900		220	720	µg/L	500	6/14/2021 13:37
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	6/14/2021 04:41
Vinyl chloride	260		2.6	8.8	µg/L	5	6/14/2021 04:41
Xylenes, Total	U		4.0	22	µg/L	5	6/14/2021 04:41

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-32
Collection Date: 6/2/2021 10:10 AM

Work Order: 21060304
Lab ID: 21060304-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	98.4			75-120	%REC	5	6/14/2021 04:41
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	500	6/14/2021 13:37
Surr: 4-Bromofluorobenzene	99.2			80-110	%REC	5	6/14/2021 04:41
Surr: 4-Bromofluorobenzene	97.8			80-110	%REC	500	6/14/2021 13:37
Surr: Dibromofluoromethane	102			85-115	%REC	5	6/14/2021 04:41
Surr: Dibromofluoromethane	103			85-115	%REC	500	6/14/2021 13:37
Surr: Toluene-d8	94.6			85-110	%REC	5	6/14/2021 04:41
Surr: Toluene-d8	98.7			85-110	%REC	500	6/14/2021 13:37
ALKALINITY				Method: A2320 B-11			Analyst: MP
Alkalinity, Total (as CaCO3)	360		8.4	10	mg/L	1	6/5/2021 10:17
ANIONS BY ION CHROMATOGRAPHY				Method: SW9056A			Analyst: JDR
Sulfate	35		0.38	2.0	mg/L	2	6/9/2021 21:18
NITROGEN, NITRATE-NITRITE				Method: E353.2 R2.0			Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.75		0.012	0.020	mg/L	1	6/14/2021 12:18
ORGANIC CARBON, TOTAL				Method: SW9060A			Analyst: JB
Organic Carbon, Total	19		0.70	2.5	mg/L	5	6/10/2021 09:44

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-33
Collection Date: 6/2/2021 11:00 AM

Work Order: 21060304
Lab ID: 21060304-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175			Analyst: JZB	
Ethane	23		1.5	5.0	µg/L	1	6/14/2021 16:54
Ethene	51		1.7	5.0	µg/L	1	6/14/2021 16:54
Methane	270		3.9	10	µg/L	2	6/14/2021 17:17
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B			Prep: SW3005A / 6/10/21 Analyst: DSC	
Iron	230		0.50	1.7	mg/L	10	6/10/2021 13:59
Manganese	12		0.025	0.083	mg/L	10	6/10/2021 13:59
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B			Analyst: JNS	
1,4-Dioxane	180		4.4	10	µg/L	10	6/15/2021 20:37
Surr: Toluene-d8	97.0			74-124	%REC	10	6/15/2021 20:37
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: DMC	
1,1,1,2-Tetrachloroethane	U		3.8	13	µg/L	10	6/14/2021 15:38
1,1,1-Trichloroethane	400		4.6	15	µg/L	10	6/14/2021 15:38
1,1,2,2-Tetrachloroethane	U		4.0	13	µg/L	10	6/14/2021 15:38
1,1,2-Trichloroethane	27		4.6	15	µg/L	10	6/14/2021 15:38
1,1-Dichloroethane	1,900		44	150	µg/L	100	6/14/2021 12:24
1,1-Dichloroethene	35		4.0	14	µg/L	10	6/14/2021 15:38
1,1-Dichloropropene	U		3.7	12	µg/L	10	6/14/2021 15:38
1,2,3-Trichlorobenzene	U		4.2	14	µg/L	10	6/14/2021 15:38
1,2,3-Trichloropropane	U		4.0	13	µg/L	10	6/14/2021 15:38
1,2,4-Trichlorobenzene	U		4.5	15	µg/L	10	6/14/2021 15:38
1,2,4-Trimethylbenzene	150		4.5	15	µg/L	10	6/14/2021 15:38
1,2-Dibromo-3-chloropropane	U		4.3	14	µg/L	10	6/14/2021 15:38
1,2-Dibromoethane	U		4.1	14	µg/L	10	6/14/2021 15:38
1,2-Dichlorobenzene	24		3.2	11	µg/L	10	6/14/2021 15:38
1,2-Dichloroethane	56		4.4	14	µg/L	10	6/14/2021 15:38
1,2-Dichloropropane	19		4.8	16	µg/L	10	6/14/2021 15:38
1,3,5-Trimethylbenzene	45		6.5	22	µg/L	10	6/14/2021 15:38
1,3-Dichlorobenzene	U		3.3	11	µg/L	10	6/14/2021 15:38
1,3-Dichloropropane	U		4.0	13	µg/L	10	6/14/2021 15:38
1,4-Dichlorobenzene	U		3.5	12	µg/L	10	6/14/2021 15:38
2,2-Dichloropropane	U		5.2	17	µg/L	10	6/14/2021 15:38
2-Butanone	81		5.2	17	µg/L	10	6/14/2021 15:38
2-Chlorotoluene	3.8	J	3.6	12	µg/L	10	6/14/2021 15:38
2-Propanol	U		3,300	11,000	µg/L	100	6/14/2021 05:03
4-Chlorotoluene	U		3.1	10	µg/L	10	6/14/2021 15:38
4-Methyl-2-pentanone	120		5.2	17	µg/L	10	6/14/2021 15:38

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-33
Collection Date: 6/2/2021 11:00 AM

Work Order: 21060304
Lab ID: 21060304-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	330		62	210	µg/L	10	6/14/2021 15:38
Benzene	U		4.6	15	µg/L	10	6/14/2021 15:38
Bromobenzene	U		3.8	13	µg/L	10	6/14/2021 15:38
Bromochloromethane	U		4.5	15	µg/L	10	6/14/2021 15:38
Bromodichloromethane	U		4.9	16	µg/L	10	6/14/2021 15:38
Bromoform	U		5.6	19	µg/L	10	6/14/2021 15:38
Bromomethane	U		9.0	30	µg/L	10	6/14/2021 15:38
Carbon tetrachloride	U		4.0	14	µg/L	10	6/14/2021 15:38
Chlorobenzene	U		4.0	13	µg/L	10	6/14/2021 15:38
Chloroethane	770		6.8	23	µg/L	10	6/14/2021 15:38
Chloroform	U		4.6	15	µg/L	10	6/14/2021 15:38
Chloromethane	U		8.3	28	µg/L	10	6/14/2021 15:38
cis-1,2-Dichloroethene	4,100		42	140	µg/L	100	6/14/2021 12:24
cis-1,3-Dichloropropene	U		5.7	19	µg/L	10	6/14/2021 15:38
Dibromochloromethane	U		4.0	13	µg/L	10	6/14/2021 15:38
Dibromomethane	U		6.5	22	µg/L	10	6/14/2021 15:38
Dichlorodifluoromethane	U		6.8	23	µg/L	10	6/14/2021 15:38
Diisopropyl ether	U		4.1	14	µg/L	10	6/14/2021 15:38
Ethylbenzene	290		3.4	11	µg/L	10	6/14/2021 15:38
Hexachlorobutadiene	U		5.6	19	µg/L	10	6/14/2021 15:38
Isopropylbenzene	13		3.5	12	µg/L	10	6/14/2021 15:38
m,p-Xylene	1,000		8.1	27	µg/L	10	6/14/2021 15:38
Methyl tert-butyl ether	U		4.5	15	µg/L	10	6/14/2021 15:38
Methylene chloride	920		8.6	29	µg/L	10	6/14/2021 15:38
Naphthalene	17	J	7.7	26	µg/L	10	6/14/2021 15:38
n-Butylbenzene	U		3.4	11	µg/L	10	6/14/2021 15:38
n-Propylbenzene	15	J	4.8	16	µg/L	10	6/14/2021 15:38
o-Xylene	550		3.1	10	µg/L	10	6/14/2021 15:38
p-Isopropyltoluene	U		2.6	8.8	µg/L	10	6/14/2021 15:38
sec-Butylbenzene	U		3.0	10	µg/L	10	6/14/2021 15:38
Styrene	U		3.3	11	µg/L	10	6/14/2021 15:38
tert-Butylbenzene	U		3.9	13	µg/L	10	6/14/2021 15:38
Tetrachloroethene	6.4	J	3.9	13	µg/L	10	6/14/2021 15:38
Toluene	940		4.5	15	µg/L	10	6/14/2021 15:38
trans-1,2-Dichloroethene	18		4.8	16	µg/L	10	6/14/2021 15:38
trans-1,3-Dichloropropene	U		3.8	27	µg/L	10	6/14/2021 15:38
Trichloroethene	5.9	J	4.3	14	µg/L	10	6/14/2021 15:38
Trichlorofluoromethane	U		5.2	17	µg/L	10	6/14/2021 15:38
Vinyl chloride	480		5.3	18	µg/L	10	6/14/2021 15:38
Xylenes, Total	1,600		8.1	44	µg/L	10	6/14/2021 15:38

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-33
Collection Date: 6/2/2021 11:00 AM

Work Order: 21060304
Lab ID: 21060304-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	100	6/14/2021 05:03
Surr: 1,2-Dichloroethane-d4	99.2			75-120	%REC	100	6/14/2021 12:24
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	10	6/14/2021 15:38
Surr: 4-Bromofluorobenzene	100			80-110	%REC	100	6/14/2021 05:03
Surr: 4-Bromofluorobenzene	98.1			80-110	%REC	100	6/14/2021 12:24
Surr: 4-Bromofluorobenzene	99.3			80-110	%REC	10	6/14/2021 15:38
Surr: Dibromofluoromethane	101			85-115	%REC	100	6/14/2021 05:03
Surr: Dibromofluoromethane	103			85-115	%REC	100	6/14/2021 12:24
Surr: Dibromofluoromethane	107			85-115	%REC	10	6/14/2021 15:38
Surr: Toluene-d8	96.4			85-110	%REC	100	6/14/2021 05:03
Surr: Toluene-d8	99.0			85-110	%REC	100	6/14/2021 12:24
Surr: Toluene-d8	94.7			85-110	%REC	10	6/14/2021 15:38
ALKALINITY				Method: A2320 B-11			Analyst: QTN
Alkalinity, Total (as CaCO3)	180		8.4	10	mg/L	1	6/9/2021 13:11
ANIONS BY ION CHROMATOGRAPHY				Method: SW9056A			Analyst: JDR
Sulfate	4.7		0.48	2.5	mg/L	2.5	6/9/2021 21:37
NITROGEN, NITRATE-NITRITE				Method: E353.2 R2.0			Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.15		0.012	0.020	mg/L	1	6/14/2021 12:19
ORGANIC CARBON, TOTAL				Method: SW9060A			Analyst: JB
Organic Carbon, Total	43		0.70	2.5	mg/L	5	6/10/2021 10:31

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-34
Collection Date: 6/2/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-32
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175			Analyst: JZB	
Ethane	8.1		1.5	5.0	µg/L	1	6/14/2021 16:56
Ethene	650		34	100	µg/L	20	6/14/2021 17:43
Methane	3,400		39	100	µg/L	20	6/14/2021 17:43
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B			Prep: SW3005A / 6/10/21 Analyst: STP	
Iron	87		0.50	1.7	mg/L	10	6/11/2021 16:14
Manganese	11		0.025	0.083	mg/L	10	6/11/2021 16:14
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B			Analyst: SJB	
1,4-Dioxane	U		4.4	10	µg/L	10	6/16/2021 22:41
Surr: Toluene-d8	129	S		74-124	%REC	10	6/16/2021 22:41
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: DMC	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	6/14/2021 12:48
1,1,1-Trichloroethane	750		4.6	15	µg/L	10	6/15/2021 21:24
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	6/14/2021 12:48
1,1,2-Trichloroethane	200		2.3	7.7	µg/L	5	6/14/2021 12:48
1,1-Dichloroethane	290		2.2	7.4	µg/L	5	6/14/2021 12:48
1,1-Dichloroethene	3.8	J	2.0	6.8	µg/L	5	6/14/2021 12:48
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	6/14/2021 12:48
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	6/14/2021 12:48
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 12:48
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	6/14/2021 12:48
1,2,4-Trimethylbenzene	3.8	J	2.2	7.5	µg/L	5	6/14/2021 12:48
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	6/14/2021 12:48
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	6/14/2021 12:48
1,2-Dichlorobenzene	10		1.6	5.4	µg/L	5	6/14/2021 12:48
1,2-Dichloroethane	25		2.2	7.2	µg/L	5	6/14/2021 12:48
1,2-Dichloropropane	21		2.4	8.0	µg/L	5	6/14/2021 12:48
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	6/14/2021 12:48
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/14/2021 12:48
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	6/14/2021 12:48
1,4-Dichlorobenzene	2.7	J	1.8	5.8	µg/L	5	6/14/2021 12:48
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	6/14/2021 12:48
2-Butanone	30		2.6	8.6	µg/L	5	6/14/2021 12:48
2-Chlorotoluene	U		1.8	6.0	µg/L	5	6/14/2021 12:48
2-Propanol	U		160	540	µg/L	5	6/16/2021 01:16
4-Chlorotoluene	U		1.6	5.1	µg/L	5	6/14/2021 12:48
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	6/14/2021 12:48

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
 Project: WRR (55929.005)
 Sample ID: W-34
 Collection Date: 6/2/2021 09:10 AM

Work Order: 21060304
 Lab ID: 21060304-32
 Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	U		31	100	µg/L	5	6/14/2021 12:48
Benzene	U		2.3	7.6	µg/L	5	6/14/2021 12:48
Bromobenzene	25		1.9	6.3	µg/L	5	6/14/2021 12:48
Bromochloromethane	U		2.2	7.4	µg/L	5	6/14/2021 12:48
Bromodichloromethane	U		2.4	8.2	µg/L	5	6/14/2021 12:48
Bromoform	U		2.8	9.4	µg/L	5	6/14/2021 12:48
Bromomethane	U		4.5	15	µg/L	5	6/14/2021 12:48
Carbon tetrachloride	U		2.0	6.8	µg/L	5	6/14/2021 12:48
Chlorobenzene	U		2.0	6.7	µg/L	5	6/14/2021 12:48
Chloroethane	29		3.4	11	µg/L	5	6/14/2021 12:48
Chloroform	4.0	J	2.3	7.6	µg/L	5	6/14/2021 12:48
Chloromethane	U		4.2	14	µg/L	5	6/14/2021 12:48
cis-1,2-Dichloroethene	410		2.1	6.9	µg/L	5	6/14/2021 12:48
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	6/14/2021 12:48
Dibromochloromethane	U		2.0	6.6	µg/L	5	6/14/2021 12:48
Dibromomethane	U		3.2	11	µg/L	5	6/14/2021 12:48
Dichlorodifluoromethane	U		3.4	11	µg/L	5	6/14/2021 12:48
Diisopropyl ether	U		2.0	6.8	µg/L	5	6/14/2021 12:48
Ethylbenzene	15		1.7	5.6	µg/L	5	6/14/2021 12:48
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	6/14/2021 12:48
Isopropylbenzene	U		1.8	5.8	µg/L	5	6/14/2021 12:48
m,p-Xylene	31		4.0	14	µg/L	5	6/14/2021 12:48
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	6/14/2021 12:48
Methylene chloride	22		4.3	14	µg/L	5	6/14/2021 12:48
Naphthalene	U		3.8	13	µg/L	5	6/14/2021 12:48
n-Butylbenzene	U		1.7	5.6	µg/L	5	6/14/2021 12:48
n-Propylbenzene	U		2.4	8.0	µg/L	5	6/14/2021 12:48
o-Xylene	24		1.6	5.2	µg/L	5	6/14/2021 12:48
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	6/14/2021 12:48
sec-Butylbenzene	U		1.5	5.0	µg/L	5	6/14/2021 12:48
Styrene	U		1.6	5.6	µg/L	5	6/14/2021 12:48
tert-Butylbenzene	U		2.0	6.6	µg/L	5	6/14/2021 12:48
Tetrachloroethene	U		2.0	6.6	µg/L	5	6/14/2021 12:48
Toluene	9.7		2.2	7.6	µg/L	5	6/14/2021 12:48
trans-1,2-Dichloroethene	U		2.4	8.0	µg/L	5	6/14/2021 12:48
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	6/14/2021 12:48
Trichloroethene	2.6	J	2.2	7.2	µg/L	5	6/14/2021 12:48
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	6/14/2021 12:48
Vinyl chloride	390		2.6	8.8	µg/L	5	6/14/2021 12:48
Xylenes, Total	56		4.0	22	µg/L	5	6/14/2021 12:48

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-34
Collection Date: 6/2/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-32
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	5	6/14/2021 12:48
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	10	6/15/2021 21:24
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	5	6/16/2021 01:16
Surr: 4-Bromofluorobenzene	101			80-110	%REC	5	6/14/2021 12:48
Surr: 4-Bromofluorobenzene	96.9			80-110	%REC	10	6/15/2021 21:24
Surr: 4-Bromofluorobenzene	98.0			80-110	%REC	5	6/16/2021 01:16
Surr: Dibromofluoromethane	104			85-115	%REC	5	6/14/2021 12:48
Surr: Dibromofluoromethane	96.3			85-115	%REC	10	6/15/2021 21:24
Surr: Dibromofluoromethane	102			85-115	%REC	5	6/16/2021 01:16
Surr: Toluene-d8	94.6			85-110	%REC	5	6/14/2021 12:48
Surr: Toluene-d8	100			85-110	%REC	10	6/15/2021 21:24
Surr: Toluene-d8	98.4			85-110	%REC	5	6/16/2021 01:16
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	210		8.4	10	mg/L	1	6/9/2021 13:11
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: JDR
Sulfate	2.5	J	0.76	4.0	mg/L	4	6/9/2021 21:57
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.12		0.012	0.020	mg/L	1	6/14/2021 12:20
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	39		0.70	2.5	mg/L	5	6/10/2021 11:18

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-35
Collection Date: 6/2/2021 02:20 PM

Work Order: 21060304
Lab ID: 21060304-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175			Analyst: JZB	
Ethane	3.2	J	1.5	5.0	µg/L	1	6/14/2021 16:57
Ethene	38		1.7	5.0	µg/L	1	6/14/2021 16:57
Methane	7,900		200	500	µg/L	100	6/14/2021 17:20
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B			Prep: SW3005A / 6/10/21 Analyst: DSC	
Iron	52		0.050	0.17	mg/L	1	6/10/2021 14:03
Manganese	1.7		0.0025	0.0083	mg/L	1	6/10/2021 14:03
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B			Analyst: SJB	
1,4-Dioxane	U		4.4	10	µg/L	10	6/16/2021 22:57
Surr: Toluene-d8	130	S		74-124	%REC	10	6/16/2021 22:57
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/16/2021 02:00
1,1,1-Trichloroethane	10		0.46	1.5	µg/L	1	6/16/2021 02:00
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/16/2021 02:00
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/16/2021 02:00
1,1-Dichloroethane	23		0.44	1.5	µg/L	1	6/16/2021 02:00
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/16/2021 02:00
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/16/2021 02:00
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/16/2021 02:00
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:00
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:00
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:00
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/16/2021 02:00
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/16/2021 02:00
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/16/2021 02:00
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/16/2021 02:00
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/16/2021 02:00
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/16/2021 02:00
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/16/2021 02:00
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:00
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:00
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/16/2021 02:00
2-Butanone	7.9		0.52	1.7	µg/L	1	6/16/2021 02:00
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/16/2021 02:00
2-Propanol	U		33	110	µg/L	1	6/16/2021 02:00
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/16/2021 02:00
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/16/2021 02:00

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-35
Collection Date: 6/2/2021 02:20 PM

Work Order: 21060304
Lab ID: 21060304-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	42		6.2	21	µg/L	1	6/16/2021 02:00
Benzene	U		0.46	1.5	µg/L	1	6/16/2021 02:00
Bromobenzene	U		0.38	1.3	µg/L	1	6/16/2021 02:00
Bromochloromethane	U		0.45	1.5	µg/L	1	6/16/2021 02:00
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/16/2021 02:00
Bromoform	U		0.56	1.9	µg/L	1	6/16/2021 02:00
Bromomethane	U		0.90	3.0	µg/L	1	6/16/2021 02:00
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/16/2021 02:00
Chlorobenzene	U		0.40	1.3	µg/L	1	6/16/2021 02:00
Chloroethane	U		0.68	2.3	µg/L	1	6/16/2021 02:00
Chloroform	U		0.46	1.5	µg/L	1	6/16/2021 02:00
Chloromethane	U		0.83	2.8	µg/L	1	6/16/2021 02:00
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/16/2021 02:00
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/16/2021 02:00
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/16/2021 02:00
Dibromomethane	U		0.65	2.2	µg/L	1	6/16/2021 02:00
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/16/2021 02:00
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/16/2021 02:00
Ethylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:00
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/16/2021 02:00
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:00
m,p-Xylene	U		0.81	2.7	µg/L	1	6/16/2021 02:00
Methyl tert-butyl ether	2.1		0.45	1.5	µg/L	1	6/16/2021 02:00
Methylene chloride	U		0.86	2.9	µg/L	1	6/16/2021 02:00
Naphthalene	U		0.77	2.6	µg/L	1	6/16/2021 02:00
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:00
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/16/2021 02:00
o-Xylene	U		0.31	1.0	µg/L	1	6/16/2021 02:00
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/16/2021 02:00
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/16/2021 02:00
Styrene	U		0.33	1.1	µg/L	1	6/16/2021 02:00
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/16/2021 02:00
Tetrachloroethene	1.0	J	0.39	1.3	µg/L	1	6/16/2021 02:00
Toluene	U		0.45	1.5	µg/L	1	6/16/2021 02:00
trans-1,2-Dichloroethene	1.3	J	0.48	1.6	µg/L	1	6/16/2021 02:00
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/16/2021 02:00
Trichloroethene	U		0.43	1.4	µg/L	1	6/16/2021 02:00
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/16/2021 02:00
Vinyl chloride	U		0.53	1.8	µg/L	1	6/16/2021 02:00
Xylenes, Total	U		0.81	4.4	µg/L	1	6/16/2021 02:00

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-35
Collection Date: 6/2/2021 02:20 PM

Work Order: 21060304
Lab ID: 21060304-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	1	6/16/2021 02:00
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	6/16/2021 02:00
Surr: Dibromofluoromethane	97.4			85-115	%REC	1	6/16/2021 02:00
Surr: Toluene-d8	96.6			85-110	%REC	1	6/16/2021 02:00
NITROGEN, NITRATE-NITRITE				Method: E353.2 R2.0			Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.11		0.012	0.020	mg/L	1	6/14/2021 12:21
ORGANIC CARBON, TOTAL				Method: SW9060A			Analyst: JB
Organic Carbon, Total	110		3.5	12	mg/L	25	6/11/2021 19:59

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-104
Collection Date: 6/2/2021 10:20 AM

Work Order: 21060304
Lab ID: 21060304-34
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 06:10
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:10
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 06:10
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:10
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 06:10
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 06:10
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 06:10
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 06:10
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:10
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:10
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:10
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 06:10
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 06:10
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 06:10
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 06:10
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 06:10
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 06:10
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 06:10
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:10
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:10
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 06:10
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 06:10
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 06:10
2-Propanol	U		33	110	µg/L	1	6/14/2021 06:10
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 06:10
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 06:10
Acetone	U		6.2	21	µg/L	1	6/14/2021 06:10
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 06:10
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 06:10
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 06:10
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 06:10
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 06:10
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 06:10
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 06:10
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 06:10
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 06:10
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 06:10
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 06:10

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-104
Collection Date: 6/2/2021 10:20 AM

Work Order: 21060304
Lab ID: 21060304-34
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 06:10
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 06:10
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 06:10
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 06:10
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 06:10
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 06:10
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:10
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 06:10
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:10
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 06:10
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 06:10
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 06:10
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 06:10
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:10
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 06:10
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 06:10
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 06:10
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 06:10
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 06:10
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 06:10
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 06:10
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 06:10
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 06:10
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 06:10
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 06:10
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 06:10
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 06:10
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 06:10
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/14/2021 06:10
Surr: 4-Bromofluorobenzene	99.0			80-110	%REC	1	6/14/2021 06:10
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/14/2021 06:10
Surr: Toluene-d8	95.9			85-110	%REC	1	6/14/2021 06:10

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-104A
Collection Date: 6/2/2021 10:25 AM

Work Order: 21060304
Lab ID: 21060304-35
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 06:32
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:32
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 06:32
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:32
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 06:32
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 06:32
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 06:32
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 06:32
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:32
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:32
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:32
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 06:32
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 06:32
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 06:32
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 06:32
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 06:32
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 06:32
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 06:32
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:32
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:32
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 06:32
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 06:32
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 06:32
2-Propanol	250		33	110	µg/L	1	6/14/2021 06:32
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 06:32
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 06:32
Acetone	19	J	6.2	21	µg/L	1	6/14/2021 06:32
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 06:32
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 06:32
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 06:32
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 06:32
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 06:32
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 06:32
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 06:32
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 06:32
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 06:32
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 06:32
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 06:32

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-104A
Collection Date: 6/2/2021 10:25 AM

Work Order: 21060304
Lab ID: 21060304-35
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 06:32
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 06:32
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 06:32
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 06:32
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 06:32
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 06:32
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:32
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 06:32
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:32
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 06:32
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 06:32
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 06:32
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 06:32
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:32
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 06:32
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 06:32
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 06:32
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 06:32
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 06:32
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 06:32
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 06:32
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 06:32
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 06:32
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 06:32
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 06:32
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 06:32
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 06:32
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 06:32
Surr: 1,2-Dichloroethane-d4	98.6			75-120	%REC	1	6/14/2021 06:32
Surr: 4-Bromofluorobenzene	102			80-110	%REC	1	6/14/2021 06:32
Surr: Dibromofluoromethane	99.6			85-115	%REC	1	6/14/2021 06:32
Surr: Toluene-d8	95.9			85-110	%REC	1	6/14/2021 06:32

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-106
Collection Date: 6/2/2021 10:55 AM

Work Order: 21060304
Lab ID: 21060304-36
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 06:54
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:54
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 06:54
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 06:54
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 06:54
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 06:54
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 06:54
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 06:54
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:54
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:54
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 06:54
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 06:54
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 06:54
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 06:54
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 06:54
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 06:54
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 06:54
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 06:54
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 06:54
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:54
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 06:54
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 06:54
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 06:54
2-Propanol	U		33	110	µg/L	1	6/14/2021 06:54
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 06:54
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 06:54
Acetone	U		6.2	21	µg/L	1	6/14/2021 06:54
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 06:54
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 06:54
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 06:54
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 06:54
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 06:54
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 06:54
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 06:54
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 06:54
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 06:54
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 06:54
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 06:54

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-106
Collection Date: 6/2/2021 10:55 AM

Work Order: 21060304
Lab ID: 21060304-36
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 06:54
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 06:54
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 06:54
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 06:54
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 06:54
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 06:54
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:54
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 06:54
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 06:54
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 06:54
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 06:54
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 06:54
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 06:54
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 06:54
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 06:54
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 06:54
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 06:54
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 06:54
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 06:54
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 06:54
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 06:54
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 06:54
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 06:54
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 06:54
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 06:54
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 06:54
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 06:54
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 06:54
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	6/14/2021 06:54
Surr: 4-Bromofluorobenzene	99.2			80-110	%REC	1	6/14/2021 06:54
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/14/2021 06:54
Surr: Toluene-d8	96.4			85-110	%REC	1	6/14/2021 06:54

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-106A
Collection Date: 6/2/2021 11:00 AM

Work Order: 21060304
Lab ID: 21060304-37
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: DMC		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 16:51
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 16:51
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 16:51
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 16:51
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 16:51
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 16:51
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 16:51
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 16:51
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 16:51
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 16:51
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 16:51
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 16:51
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 16:51
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 16:51
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 16:51
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 16:51
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 16:51
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 16:51
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 16:51
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 16:51
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 16:51
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 16:51
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 16:51
2-Propanol	U		33	110	µg/L	1	6/16/2021 01:38
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 16:51
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 16:51
Acetone	U		6.2	21	µg/L	1	6/14/2021 16:51
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 16:51
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 16:51
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 16:51
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 16:51
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 16:51
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 16:51
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 16:51
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 16:51
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 16:51
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 16:51
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 16:51

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-106A
Collection Date: 6/2/2021 11:00 AM

Work Order: 21060304
Lab ID: 21060304-37
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 16:51
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 16:51
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 16:51
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 16:51
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 16:51
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 16:51
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 16:51
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 16:51
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 16:51
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 16:51
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 16:51
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 16:51
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 16:51
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 16:51
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 16:51
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 16:51
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 16:51
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 16:51
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 16:51
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 16:51
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 16:51
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 16:51
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 16:51
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 16:51
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 16:51
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 16:51
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 16:51
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 16:51
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/14/2021 16:51
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	6/16/2021 01:38
Surr: 4-Bromofluorobenzene	96.4			80-110	%REC	1	6/14/2021 16:51
Surr: 4-Bromofluorobenzene	99.2			80-110	%REC	1	6/16/2021 01:38
Surr: Dibromofluoromethane	106			85-115	%REC	1	6/14/2021 16:51
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/16/2021 01:38
Surr: Toluene-d8	94.6			85-110	%REC	1	6/14/2021 16:51
Surr: Toluene-d8	98.2			85-110	%REC	1	6/16/2021 01:38

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-116
Collection Date: 6/2/2021 08:46 AM

Work Order: 21060304
Lab ID: 21060304-38
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: DMC
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 16:27
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 16:27
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 16:27
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 16:27
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 16:27
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 16:27
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 16:27
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 16:27
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 16:27
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 16:27
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 16:27
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 16:27
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 16:27
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 16:27
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 16:27
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 16:27
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 16:27
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 16:27
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 16:27
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 16:27
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 16:27
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 16:27
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 16:27
2-Propanol	U		33	110	µg/L	1	6/16/2021 00:32
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 16:27
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 16:27
Acetone	U		6.2	21	µg/L	1	6/14/2021 16:27
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 16:27
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 16:27
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 16:27
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 16:27
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 16:27
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 16:27
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 16:27
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 16:27
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 16:27
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 16:27
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 16:27

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-116
Collection Date: 6/2/2021 08:46 AM

Work Order: 21060304
Lab ID: 21060304-38
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	0.44	J	0.42	1.4	µg/L	1	6/14/2021 16:27
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 16:27
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 16:27
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 16:27
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 16:27
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 16:27
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 16:27
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 16:27
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 16:27
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 16:27
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 16:27
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 16:27
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 16:27
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 16:27
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 16:27
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 16:27
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 16:27
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 16:27
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 16:27
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 16:27
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 16:27
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 16:27
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 16:27
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 16:27
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 16:27
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 16:27
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 16:27
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 16:27
Surr: 1,2-Dichloroethane-d4	98.8			75-120	%REC	1	6/14/2021 16:27
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/16/2021 00:32
Surr: 4-Bromofluorobenzene	97.0			80-110	%REC	1	6/14/2021 16:27
Surr: 4-Bromofluorobenzene	97.6			80-110	%REC	1	6/16/2021 00:32
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/14/2021 16:27
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/16/2021 00:32
Surr: Toluene-d8	96.2			85-110	%REC	1	6/14/2021 16:27
Surr: Toluene-d8	99.8			85-110	%REC	1	6/16/2021 00:32

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: RW-5
Collection Date: 6/2/2021 04:10 PM

Work Order: 21060304
Lab ID: 21060304-39
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/16/2021 02:22
1,1,1-Trichloroethane	60		0.46	1.5	µg/L	1	6/16/2021 02:22
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/16/2021 02:22
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/16/2021 02:22
1,1-Dichloroethane	18		0.44	1.5	µg/L	1	6/16/2021 02:22
1,1-Dichloroethene	0.85	J	0.40	1.4	µg/L	1	6/16/2021 02:22
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/16/2021 02:22
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/16/2021 02:22
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:22
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:22
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:22
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/16/2021 02:22
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/16/2021 02:22
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/16/2021 02:22
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/16/2021 02:22
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/16/2021 02:22
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/16/2021 02:22
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/16/2021 02:22
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:22
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:22
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/16/2021 02:22
2-Butanone	U		0.52	1.7	µg/L	1	6/16/2021 02:22
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/16/2021 02:22
2-Propanol	150		33	110	µg/L	1	6/16/2021 02:22
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/16/2021 02:22
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/16/2021 02:22
Acetone	17	J	6.2	21	µg/L	1	6/16/2021 02:22
Benzene	U		0.46	1.5	µg/L	1	6/16/2021 02:22
Bromobenzene	U		0.38	1.3	µg/L	1	6/16/2021 02:22
Bromochloromethane	U		0.45	1.5	µg/L	1	6/16/2021 02:22
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/16/2021 02:22
Bromoform	U		0.56	1.9	µg/L	1	6/16/2021 02:22
Bromomethane	U		0.90	3.0	µg/L	1	6/16/2021 02:22
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/16/2021 02:22
Chlorobenzene	U		0.40	1.3	µg/L	1	6/16/2021 02:22
Chloroethane	U		0.68	2.3	µg/L	1	6/16/2021 02:22
Chloroform	U		0.46	1.5	µg/L	1	6/16/2021 02:22
Chloromethane	U		0.83	2.8	µg/L	1	6/16/2021 02:22

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: RW-5
Collection Date: 6/2/2021 04:10 PM

Work Order: 21060304
Lab ID: 21060304-39
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	91		0.42	1.4	µg/L	1	6/16/2021 02:22
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/16/2021 02:22
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/16/2021 02:22
Dibromomethane	U		0.65	2.2	µg/L	1	6/16/2021 02:22
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/16/2021 02:22
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/16/2021 02:22
Ethylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:22
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/16/2021 02:22
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:22
m,p-Xylene	U		0.81	2.7	µg/L	1	6/16/2021 02:22
Methyl tert-butyl ether	5.8		0.45	1.5	µg/L	1	6/16/2021 02:22
Methylene chloride	5.2		0.86	2.9	µg/L	1	6/16/2021 02:22
Naphthalene	U		0.77	2.6	µg/L	1	6/16/2021 02:22
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:22
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/16/2021 02:22
o-Xylene	U		0.31	1.0	µg/L	1	6/16/2021 02:22
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/16/2021 02:22
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/16/2021 02:22
Styrene	U		0.33	1.1	µg/L	1	6/16/2021 02:22
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/16/2021 02:22
Tetrachloroethene	34		0.39	1.3	µg/L	1	6/16/2021 02:22
Toluene	U		0.45	1.5	µg/L	1	6/16/2021 02:22
trans-1,2-Dichloroethene	0.86	J	0.48	1.6	µg/L	1	6/16/2021 02:22
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/16/2021 02:22
Trichloroethene	38		0.43	1.4	µg/L	1	6/16/2021 02:22
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/16/2021 02:22
Vinyl chloride	U		0.53	1.8	µg/L	1	6/16/2021 02:22
Xylenes, Total	U		0.81	4.4	µg/L	1	6/16/2021 02:22
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/16/2021 02:22
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	1	6/16/2021 02:22
Surr: Dibromofluoromethane	103			85-115	%REC	1	6/16/2021 02:22
Surr: Toluene-d8	96.5			85-110	%REC	1	6/16/2021 02:22

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: RW-5 DUP
Collection Date: 6/2/2021 04:15 PM

Work Order: 21060304
Lab ID: 21060304-40
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/16/2021 02:44
1,1,1-Trichloroethane	59		0.46	1.5	µg/L	1	6/16/2021 02:44
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/16/2021 02:44
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/16/2021 02:44
1,1-Dichloroethane	18		0.44	1.5	µg/L	1	6/16/2021 02:44
1,1-Dichloroethene	0.90	J	0.40	1.4	µg/L	1	6/16/2021 02:44
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/16/2021 02:44
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/16/2021 02:44
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:44
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:44
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/16/2021 02:44
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/16/2021 02:44
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/16/2021 02:44
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/16/2021 02:44
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/16/2021 02:44
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/16/2021 02:44
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/16/2021 02:44
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/16/2021 02:44
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/16/2021 02:44
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:44
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/16/2021 02:44
2-Butanone	U		0.52	1.7	µg/L	1	6/16/2021 02:44
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/16/2021 02:44
2-Propanol	94	J	33	110	µg/L	1	6/16/2021 02:44
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/16/2021 02:44
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/16/2021 02:44
Acetone	U		6.2	21	µg/L	1	6/16/2021 02:44
Benzene	U		0.46	1.5	µg/L	1	6/16/2021 02:44
Bromobenzene	U		0.38	1.3	µg/L	1	6/16/2021 02:44
Bromochloromethane	U		0.45	1.5	µg/L	1	6/16/2021 02:44
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/16/2021 02:44
Bromoform	U		0.56	1.9	µg/L	1	6/16/2021 02:44
Bromomethane	U		0.90	3.0	µg/L	1	6/16/2021 02:44
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/16/2021 02:44
Chlorobenzene	U		0.40	1.3	µg/L	1	6/16/2021 02:44
Chloroethane	U		0.68	2.3	µg/L	1	6/16/2021 02:44
Chloroform	U		0.46	1.5	µg/L	1	6/16/2021 02:44
Chloromethane	U		0.83	2.8	µg/L	1	6/16/2021 02:44

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: RW-5 DUP
Collection Date: 6/2/2021 04:15 PM

Work Order: 21060304
Lab ID: 21060304-40
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	88		0.42	1.4	µg/L	1	6/16/2021 02:44
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/16/2021 02:44
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/16/2021 02:44
Dibromomethane	U		0.65	2.2	µg/L	1	6/16/2021 02:44
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/16/2021 02:44
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/16/2021 02:44
Ethylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:44
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/16/2021 02:44
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/16/2021 02:44
m,p-Xylene	U		0.81	2.7	µg/L	1	6/16/2021 02:44
Methyl tert-butyl ether	5.5		0.45	1.5	µg/L	1	6/16/2021 02:44
Methylene chloride	4.4		0.86	2.9	µg/L	1	6/16/2021 02:44
Naphthalene	U		0.77	2.6	µg/L	1	6/16/2021 02:44
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/16/2021 02:44
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/16/2021 02:44
o-Xylene	U		0.31	1.0	µg/L	1	6/16/2021 02:44
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/16/2021 02:44
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/16/2021 02:44
Styrene	U		0.33	1.1	µg/L	1	6/16/2021 02:44
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/16/2021 02:44
Tetrachloroethene	35		0.39	1.3	µg/L	1	6/16/2021 02:44
Toluene	U		0.45	1.5	µg/L	1	6/16/2021 02:44
trans-1,2-Dichloroethene	0.82	J	0.48	1.6	µg/L	1	6/16/2021 02:44
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/16/2021 02:44
Trichloroethene	38		0.43	1.4	µg/L	1	6/16/2021 02:44
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/16/2021 02:44
Vinyl chloride	U		0.53	1.8	µg/L	1	6/16/2021 02:44
Xylenes, Total	U		0.81	4.4	µg/L	1	6/16/2021 02:44
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/16/2021 02:44
Surr: 4-Bromofluorobenzene	99.4			80-110	%REC	1	6/16/2021 02:44
Surr: Dibromofluoromethane	104			85-115	%REC	1	6/16/2021 02:44
Surr: Toluene-d8	98.0			85-110	%REC	1	6/16/2021 02:44

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-7
Collection Date: 6/2/2021 04:16 PM

Work Order: 21060304
Lab ID: 21060304-41
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175			Analyst: JZB	
Ethane	15		1.5	5.0	µg/L	1	6/14/2021 16:58
Ethene	110		1.7	5.0	µg/L	1	6/14/2021 16:58
Methane	990		20	50	µg/L	10	6/14/2021 17:21
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B			Prep: SW3005A / 6/10/21 Analyst: DSC	
Iron	71		0.50	1.7	mg/L	10	6/10/2021 14:04
Manganese	1.6		0.025	0.083	mg/L	10	6/10/2021 14:04
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B			Analyst: SJB	
1,4-Dioxane	U		440	1,000	µg/L	1000	6/16/2021 23:12
Surr: Toluene-d8	122			74-124	%REC	1000	6/16/2021 23:12
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		38	130	µg/L	100	6/16/2021 03:28
1,1,1-Trichloroethane	14,000		460	1,500	µg/L	1000	6/14/2021 18:04
1,1,2,2-Tetrachloroethane	U		40	130	µg/L	100	6/16/2021 03:28
1,1,2-Trichloroethane	U		46	150	µg/L	100	6/16/2021 03:28
1,1-Dichloroethane	1,300		44	150	µg/L	100	6/16/2021 03:28
1,1-Dichloroethene	180		40	140	µg/L	100	6/16/2021 03:28
1,1-Dichloropropene	U		37	120	µg/L	100	6/16/2021 03:28
1,2,3-Trichlorobenzene	U		42	140	µg/L	100	6/16/2021 03:28
1,2,3-Trichloropropane	U		40	130	µg/L	100	6/16/2021 03:28
1,2,4-Trichlorobenzene	U		45	150	µg/L	100	6/16/2021 03:28
1,2,4-Trimethylbenzene	U		45	150	µg/L	100	6/16/2021 03:28
1,2-Dibromo-3-chloropropane	U		43	140	µg/L	100	6/16/2021 03:28
1,2-Dibromoethane	U		41	140	µg/L	100	6/16/2021 03:28
1,2-Dichlorobenzene	140		32	110	µg/L	100	6/16/2021 03:28
1,2-Dichloroethane	U		44	140	µg/L	100	6/16/2021 03:28
1,2-Dichloropropane	160	J	48	160	µg/L	100	6/16/2021 03:28
1,3,5-Trimethylbenzene	U		65	220	µg/L	100	6/16/2021 03:28
1,3-Dichlorobenzene	U		33	110	µg/L	100	6/16/2021 03:28
1,3-Dichloropropane	U		40	130	µg/L	100	6/16/2021 03:28
1,4-Dichlorobenzene	U		35	120	µg/L	100	6/16/2021 03:28
2,2-Dichloropropane	U		52	170	µg/L	100	6/16/2021 03:28
2-Butanone	U		52	170	µg/L	100	6/16/2021 03:28
2-Chlorotoluene	U		36	120	µg/L	100	6/16/2021 03:28
2-Propanol	U		3,300	11,000	µg/L	100	6/16/2021 03:28
4-Chlorotoluene	U		31	100	µg/L	100	6/16/2021 03:28
4-Methyl-2-pentanone	U		52	170	µg/L	100	6/16/2021 03:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-7
Collection Date: 6/2/2021 04:16 PM

Work Order: 21060304
Lab ID: 21060304-41
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	U		620	2,100	µg/L	100	6/16/2021 03:28
Benzene	U		46	150	µg/L	100	6/16/2021 03:28
Bromobenzene	U		38	130	µg/L	100	6/16/2021 03:28
Bromochloromethane	U		45	150	µg/L	100	6/16/2021 03:28
Bromodichloromethane	U		49	160	µg/L	100	6/16/2021 03:28
Bromoform	U		56	190	µg/L	100	6/16/2021 03:28
Bromomethane	U		90	300	µg/L	100	6/16/2021 03:28
Carbon tetrachloride	U		40	140	µg/L	100	6/16/2021 03:28
Chlorobenzene	U		40	130	µg/L	100	6/16/2021 03:28
Chloroethane	71	J	68	230	µg/L	100	6/16/2021 03:28
Chloroform	U		46	150	µg/L	100	6/16/2021 03:28
Chloromethane	U		83	280	µg/L	100	6/16/2021 03:28
cis-1,2-Dichloroethene	3,800		42	140	µg/L	100	6/16/2021 03:28
cis-1,3-Dichloropropene	U		57	190	µg/L	100	6/16/2021 03:28
Dibromochloromethane	U		40	130	µg/L	100	6/16/2021 03:28
Dibromomethane	U		65	220	µg/L	100	6/16/2021 03:28
Dichlorodifluoromethane	U		68	230	µg/L	100	6/16/2021 03:28
Diisopropyl ether	U		41	140	µg/L	100	6/16/2021 03:28
Ethylbenzene	U		34	110	µg/L	100	6/16/2021 03:28
Hexachlorobutadiene	U		56	190	µg/L	100	6/16/2021 03:28
Isopropylbenzene	U		35	120	µg/L	100	6/16/2021 03:28
m,p-Xylene	180	J	81	270	µg/L	100	6/16/2021 03:28
Methyl tert-butyl ether	U		45	150	µg/L	100	6/16/2021 03:28
Methylene chloride	480		86	290	µg/L	100	6/16/2021 03:28
Naphthalene	U		77	260	µg/L	100	6/16/2021 03:28
n-Butylbenzene	U		34	110	µg/L	100	6/16/2021 03:28
n-Propylbenzene	U		48	160	µg/L	100	6/16/2021 03:28
o-Xylene	380		31	100	µg/L	100	6/16/2021 03:28
p-Isopropyltoluene	U		26	88	µg/L	100	6/16/2021 03:28
sec-Butylbenzene	U		30	100	µg/L	100	6/16/2021 03:28
Styrene	U		33	110	µg/L	100	6/16/2021 03:28
tert-Butylbenzene	U		39	130	µg/L	100	6/16/2021 03:28
Tetrachloroethene	7,100		39	130	µg/L	100	6/16/2021 03:28
Toluene	140	J	45	150	µg/L	100	6/16/2021 03:28
trans-1,2-Dichloroethene	U		48	160	µg/L	100	6/16/2021 03:28
trans-1,3-Dichloropropene	U		38	270	µg/L	100	6/16/2021 03:28
Trichloroethene	15,000		430	1,400	µg/L	1000	6/14/2021 18:04
Trichlorofluoromethane	U		52	170	µg/L	100	6/16/2021 03:28
Vinyl chloride	310		53	180	µg/L	100	6/16/2021 03:28
Xylenes, Total	570		81	440	µg/L	100	6/16/2021 03:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-7
Collection Date: 6/2/2021 04:16 PM

Work Order: 21060304
Lab ID: 21060304-41
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1000	6/14/2021 18:04
Surr: 1,2-Dichloroethane-d4	99.7			75-120	%REC	100	6/16/2021 03:28
Surr: 4-Bromofluorobenzene	95.2			80-110	%REC	1000	6/14/2021 18:04
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	100	6/16/2021 03:28
Surr: Dibromofluoromethane	97.4			85-115	%REC	1000	6/14/2021 18:04
Surr: Dibromofluoromethane	101			85-115	%REC	100	6/16/2021 03:28
Surr: Toluene-d8	97.6			85-110	%REC	1000	6/14/2021 18:04
Surr: Toluene-d8	99.8			85-110	%REC	100	6/16/2021 03:28
ALKALINITY				Method: A2320 B-11			Analyst: QTN
Alkalinity, Total (as CaCO3)	910		8.4	10	mg/L	1	6/9/2021 13:11
ANIONS BY ION CHROMATOGRAPHY				Method: SW9056A			Analyst: JDR
Sulfate	18		0.38	2.0	mg/L	2	6/9/2021 22:16
NITROGEN, NITRATE-NITRITE				Method: E353.2 R2.0			Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.093		0.012	0.020	mg/L	1	6/14/2021 12:22
ORGANIC CARBON, TOTAL				Method: SW9060A			Analyst: JB
Organic Carbon, Total	1,600		28	100	mg/L	200	6/11/2021 20:46

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank-2
Collection Date: 6/2/2021

Work Order: 21060304
Lab ID: 21060304-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: DMC	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 14:50
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 14:50
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 14:50
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 14:50
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 14:50
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 14:50
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 14:50
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 14:50
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:50
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:50
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:50
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 14:50
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 14:50
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 14:50
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 14:50
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 14:50
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 14:50
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 14:50
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:50
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:50
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 14:50
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 14:50
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 14:50
2-Propanol	U		33	110	µg/L	1	6/16/2021 00:10
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 14:50
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 14:50
Acetone	12	J	6.2	21	µg/L	1	6/14/2021 14:50
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 14:50
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 14:50
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 14:50
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 14:50
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 14:50
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 14:50
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 14:50
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 14:50
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 14:50
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 14:50
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 14:50

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank-2
Collection Date: 6/2/2021

Work Order: 21060304
Lab ID: 21060304-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 14:50
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 14:50
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 14:50
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 14:50
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 14:50
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 14:50
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:50
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 14:50
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:50
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 14:50
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 14:50
Methylene chloride	2.0	J	0.86	2.9	µg/L	1	6/14/2021 14:50
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 14:50
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:50
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 14:50
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 14:50
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 14:50
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 14:50
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 14:50
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 14:50
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 14:50
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 14:50
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 14:50
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 14:50
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 14:50
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 14:50
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 14:50
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 14:50
Surr: 1,2-Dichloroethane-d4	98.4			75-120	%REC	1	6/14/2021 14:50
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	6/16/2021 00:10
Surr: 4-Bromofluorobenzene	95.8			80-110	%REC	1	6/14/2021 14:50
Surr: 4-Bromofluorobenzene	99.0			80-110	%REC	1	6/16/2021 00:10
Surr: Dibromofluoromethane	99.6			85-115	%REC	1	6/14/2021 14:50
Surr: Dibromofluoromethane	103			85-115	%REC	1	6/16/2021 00:10
Surr: Toluene-d8	96.8			85-110	%REC	1	6/14/2021 14:50
Surr: Toluene-d8	99.0			85-110	%REC	1	6/16/2021 00:10

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2
Collection Date: 6/3/2021 09:25 AM

Work Order: 21060304
Lab ID: 21060304-43
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 14:13
1,1,1-Trichloroethane	11		0.46	1.5	µg/L	1	6/14/2021 14:13
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 14:13
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 14:13
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 14:13
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 14:13
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 14:13
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 14:13
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:13
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:13
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:13
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 14:13
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 14:13
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 14:13
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 14:13
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 14:13
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 14:13
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 14:13
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:13
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:13
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 14:13
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 14:13
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 14:13
2-Propanol	U		33	110	µg/L	1	6/14/2021 14:13
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 14:13
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 14:13
Acetone	U		6.2	21	µg/L	1	6/14/2021 14:13
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 14:13
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 14:13
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 14:13
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 14:13
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 14:13
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 14:13
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 14:13
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 14:13
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 14:13
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 14:13
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 14:13

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2
Collection Date: 6/3/2021 09:25 AM

Work Order: 21060304
Lab ID: 21060304-43
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 14:13
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 14:13
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 14:13
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 14:13
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 14:13
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 14:13
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:13
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 14:13
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:13
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 14:13
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 14:13
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 14:13
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 14:13
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:13
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 14:13
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 14:13
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 14:13
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 14:13
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 14:13
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 14:13
Tetrachloroethene	28		0.39	1.3	µg/L	1	6/14/2021 14:13
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 14:13
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 14:13
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 14:13
Trichloroethene	3.2		0.43	1.4	µg/L	1	6/14/2021 14:13
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 14:13
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 14:13
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 14:13
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	6/14/2021 14:13
Surr: 4-Bromofluorobenzene	98.2			80-110	%REC	1	6/14/2021 14:13
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/14/2021 14:13
Surr: Toluene-d8	96.7			85-110	%REC	1	6/14/2021 14:13

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2 Dup
Collection Date: 6/3/2021 09:26 AM

Work Order: 21060304
Lab ID: 21060304-44
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 14:28
1,1,1-Trichloroethane	11		0.46	1.5	µg/L	1	6/14/2021 14:28
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 14:28
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 14:28
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 14:28
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 14:28
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 14:28
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 14:28
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:28
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:28
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 14:28
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 14:28
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 14:28
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 14:28
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 14:28
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 14:28
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 14:28
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 14:28
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 14:28
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:28
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 14:28
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 14:28
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 14:28
2-Propanol	U		33	110	µg/L	1	6/14/2021 14:28
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 14:28
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 14:28
Acetone	U		6.2	21	µg/L	1	6/14/2021 14:28
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 14:28
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 14:28
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 14:28
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 14:28
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 14:28
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 14:28
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 14:28
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 14:28
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 14:28
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 14:28
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 14:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-2 Dup
Collection Date: 6/3/2021 09:26 AM

Work Order: 21060304
Lab ID: 21060304-44
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 14:28
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 14:28
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 14:28
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 14:28
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 14:28
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 14:28
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:28
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 14:28
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 14:28
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 14:28
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 14:28
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 14:28
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 14:28
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 14:28
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 14:28
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 14:28
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 14:28
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 14:28
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 14:28
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 14:28
Tetrachloroethene	27		0.39	1.3	µg/L	1	6/14/2021 14:28
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 14:28
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 14:28
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 14:28
Trichloroethene	3.2		0.43	1.4	µg/L	1	6/14/2021 14:28
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 14:28
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 14:28
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 14:28
Surr: 1,2-Dichloroethane-d4	107			75-120	%REC	1	6/14/2021 14:28
Surr: 4-Bromofluorobenzene	96.5			80-110	%REC	1	6/14/2021 14:28
Surr: Dibromofluoromethane	106			85-115	%REC	1	6/14/2021 14:28
Surr: Toluene-d8	94.6			85-110	%REC	1	6/14/2021 14:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3
Collection Date: 6/3/2021 07:50 AM

Work Order: 21060304
Lab ID: 21060304-45
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 08:00
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 08:00
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 08:00
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 08:00
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/14/2021 08:00
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 08:00
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 08:00
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 08:00
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 08:00
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 08:00
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 08:00
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 08:00
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 08:00
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 08:00
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/14/2021 08:00
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 08:00
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 08:00
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 08:00
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 08:00
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 08:00
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 08:00
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 08:00
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 08:00
2-Propanol	45	J	33	110	µg/L	1	6/14/2021 08:00
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 08:00
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/14/2021 08:00
Acetone	9.2	J	6.2	21	µg/L	1	6/14/2021 08:00
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 08:00
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 08:00
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 08:00
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 08:00
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 08:00
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 08:00
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 08:00
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 08:00
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 08:00
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 08:00
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 08:00

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-3
Collection Date: 6/3/2021 07:50 AM

Work Order: 21060304
Lab ID: 21060304-45
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/14/2021 08:00
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 08:00
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 08:00
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 08:00
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 08:00
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 08:00
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 08:00
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 08:00
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 08:00
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 08:00
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/14/2021 08:00
Methylene chloride	U		0.86	2.9	µg/L	1	6/14/2021 08:00
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 08:00
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 08:00
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 08:00
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 08:00
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 08:00
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 08:00
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 08:00
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 08:00
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 08:00
Toluene	U		0.45	1.5	µg/L	1	6/14/2021 08:00
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 08:00
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 08:00
Trichloroethene	U		0.43	1.4	µg/L	1	6/14/2021 08:00
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 08:00
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 08:00
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 08:00
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	1	6/14/2021 08:00
Surr: 4-Bromofluorobenzene	105			80-110	%REC	1	6/14/2021 08:00
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/14/2021 08:00
Surr: Toluene-d8	96.5			85-110	%REC	1	6/14/2021 08:00

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-4
Collection Date: 6/3/2021 10:05 AM

Work Order: 21060304
Lab ID: 21060304-46
Matrix: GROUNDWATER

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	6/15/2021 03:45
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 03:45
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/15/2021 03:45
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 03:45
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/15/2021 03:45
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/15/2021 03:45
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/15/2021 03:45
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/15/2021 03:45
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 03:45
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/15/2021 03:45
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/15/2021 03:45
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/15/2021 03:45
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/15/2021 03:45
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/15/2021 03:45
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/15/2021 03:45
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/15/2021 03:45
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/15/2021 03:45
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/15/2021 03:45
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 03:45
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/15/2021 03:45
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/15/2021 03:45
2-Butanone	U		0.52	1.7	µg/L	1	6/15/2021 03:45
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/15/2021 03:45
2-Propanol	42	J	33	110	µg/L	1	6/16/2021 04:34
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/15/2021 03:45
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/15/2021 03:45
Acetone	U		6.2	21	µg/L	1	6/15/2021 03:45
Benzene	U		0.46	1.5	µg/L	1	6/15/2021 03:45
Bromobenzene	U		0.38	1.3	µg/L	1	6/15/2021 03:45
Bromochloromethane	U		0.45	1.5	µg/L	1	6/15/2021 03:45
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/15/2021 03:45
Bromoform	U		0.56	1.9	µg/L	1	6/15/2021 03:45
Bromomethane	U		0.90	3.0	µg/L	1	6/15/2021 03:45
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/15/2021 03:45
Chlorobenzene	U		0.40	1.3	µg/L	1	6/15/2021 03:45
Chloroethane	U		0.68	2.3	µg/L	1	6/15/2021 03:45
Chloroform	U		0.46	1.5	µg/L	1	6/15/2021 03:45
Chloromethane	U		0.83	2.8	µg/L	1	6/15/2021 03:45

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-4
Collection Date: 6/3/2021 10:05 AM

Work Order: 21060304
Lab ID: 21060304-46
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/15/2021 03:45
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/15/2021 03:45
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/15/2021 03:45
Dibromomethane	U		0.65	2.2	µg/L	1	6/15/2021 03:45
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/15/2021 03:45
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/15/2021 03:45
Ethylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 03:45
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/15/2021 03:45
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/15/2021 03:45
m,p-Xylene	U		0.81	2.7	µg/L	1	6/15/2021 03:45
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/15/2021 03:45
Methylene chloride	U		0.86	2.9	µg/L	1	6/15/2021 03:45
Naphthalene	U		0.77	2.6	µg/L	1	6/15/2021 03:45
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 03:45
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/15/2021 03:45
o-Xylene	U		0.31	1.0	µg/L	1	6/15/2021 03:45
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/15/2021 03:45
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/15/2021 03:45
Styrene	U		0.33	1.1	µg/L	1	6/15/2021 03:45
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/15/2021 03:45
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/15/2021 03:45
Toluene	U		0.45	1.5	µg/L	1	6/15/2021 03:45
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/15/2021 03:45
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/15/2021 03:45
Trichloroethene	U		0.43	1.4	µg/L	1	6/15/2021 03:45
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/15/2021 03:45
Vinyl chloride	U		0.53	1.8	µg/L	1	6/15/2021 03:45
Xylenes, Total	U		0.81	4.4	µg/L	1	6/15/2021 03:45
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/15/2021 03:45
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	6/16/2021 04:34
Surr: 4-Bromofluorobenzene	96.0			80-110	%REC	1	6/15/2021 03:45
Surr: 4-Bromofluorobenzene	97.9			80-110	%REC	1	6/16/2021 04:34
Surr: Dibromofluoromethane	98.6			85-115	%REC	1	6/15/2021 03:45
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/16/2021 04:34
Surr: Toluene-d8	95.8			85-110	%REC	1	6/15/2021 03:45
Surr: Toluene-d8	100			85-110	%REC	1	6/16/2021 04:34

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-5
Collection Date: 6/3/2021 08:20 AM

Work Order: 21060304
Lab ID: 21060304-47
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: DMC	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	6/14/2021 18:28
1,1,1-Trichloroethane	1.2	J	0.46	1.5	µg/L	1	6/14/2021 18:28
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/14/2021 18:28
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/14/2021 18:28
1,1-Dichloroethane	2.9		0.44	1.5	µg/L	1	6/14/2021 18:28
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/14/2021 18:28
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/14/2021 18:28
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/14/2021 18:28
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 18:28
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/14/2021 18:28
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/14/2021 18:28
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/14/2021 18:28
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/14/2021 18:28
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/14/2021 18:28
1,2-Dichloroethane	0.76	J	0.44	1.4	µg/L	1	6/14/2021 18:28
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/14/2021 18:28
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/14/2021 18:28
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/14/2021 18:28
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/14/2021 18:28
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/14/2021 18:28
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/14/2021 18:28
2-Butanone	U		0.52	1.7	µg/L	1	6/14/2021 18:28
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/14/2021 18:28
2-Propanol	U		33	110	µg/L	1	6/16/2021 03:06
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/14/2021 18:28
4-Methyl-2-pentanone	20		0.52	1.7	µg/L	1	6/14/2021 18:28
Acetone	160		31	100	µg/L	5	6/16/2021 00:40
Benzene	U		0.46	1.5	µg/L	1	6/14/2021 18:28
Bromobenzene	U		0.38	1.3	µg/L	1	6/14/2021 18:28
Bromochloromethane	U		0.45	1.5	µg/L	1	6/14/2021 18:28
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/14/2021 18:28
Bromoform	U		0.56	1.9	µg/L	1	6/14/2021 18:28
Bromomethane	U		0.90	3.0	µg/L	1	6/14/2021 18:28
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/14/2021 18:28
Chlorobenzene	U		0.40	1.3	µg/L	1	6/14/2021 18:28
Chloroethane	U		0.68	2.3	µg/L	1	6/14/2021 18:28
Chloroform	U		0.46	1.5	µg/L	1	6/14/2021 18:28
Chloromethane	U		0.83	2.8	µg/L	1	6/14/2021 18:28

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-5
Collection Date: 6/3/2021 08:20 AM

Work Order: 21060304
Lab ID: 21060304-47
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	4.8		0.42	1.4	µg/L	1	6/14/2021 18:28
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/14/2021 18:28
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/14/2021 18:28
Dibromomethane	U		0.65	2.2	µg/L	1	6/14/2021 18:28
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/14/2021 18:28
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/14/2021 18:28
Ethylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 18:28
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/14/2021 18:28
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/14/2021 18:28
m,p-Xylene	U		0.81	2.7	µg/L	1	6/14/2021 18:28
Methyl tert-butyl ether	0.68	J	0.45	1.5	µg/L	1	6/14/2021 18:28
Methylene chloride	3.7		0.86	2.9	µg/L	1	6/14/2021 18:28
Naphthalene	U		0.77	2.6	µg/L	1	6/14/2021 18:28
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/14/2021 18:28
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/14/2021 18:28
o-Xylene	U		0.31	1.0	µg/L	1	6/14/2021 18:28
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/14/2021 18:28
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/14/2021 18:28
Styrene	U		0.33	1.1	µg/L	1	6/14/2021 18:28
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/14/2021 18:28
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/14/2021 18:28
Toluene	2.7		0.45	1.5	µg/L	1	6/14/2021 18:28
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/14/2021 18:28
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/14/2021 18:28
Trichloroethene	0.81	J	0.43	1.4	µg/L	1	6/14/2021 18:28
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/14/2021 18:28
Vinyl chloride	U		0.53	1.8	µg/L	1	6/14/2021 18:28
Xylenes, Total	U		0.81	4.4	µg/L	1	6/14/2021 18:28
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	6/14/2021 18:28
Surr: 1,2-Dichloroethane-d4	107			75-120	%REC	5	6/16/2021 00:40
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/16/2021 03:06
Surr: 4-Bromofluorobenzene	94.8			80-110	%REC	1	6/14/2021 18:28
Surr: 4-Bromofluorobenzene	99.6			80-110	%REC	5	6/16/2021 00:40
Surr: 4-Bromofluorobenzene	99.8			80-110	%REC	1	6/16/2021 03:06
Surr: Dibromofluoromethane	105			85-115	%REC	1	6/14/2021 18:28
Surr: Dibromofluoromethane	104			85-115	%REC	5	6/16/2021 00:40
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/16/2021 03:06
Surr: Toluene-d8	100			85-110	%REC	1	6/14/2021 18:28
Surr: Toluene-d8	103			85-110	%REC	5	6/16/2021 00:40
Surr: Toluene-d8	99.8			85-110	%REC	1	6/16/2021 03:06

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-6
Collection Date: 6/3/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-48
Matrix: GROUNDWATER

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	6/15/2021 04:33
1,1,1-Trichloroethane	0.76	J	0.46	1.5	µg/L	1	6/15/2021 04:33
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/15/2021 04:33
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 04:33
1,1-Dichloroethane	3.9		0.44	1.5	µg/L	1	6/15/2021 04:33
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/15/2021 04:33
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/15/2021 04:33
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/15/2021 04:33
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 04:33
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/15/2021 04:33
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/15/2021 04:33
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/15/2021 04:33
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/15/2021 04:33
1,2-Dichlorobenzene	0.44	J	0.32	1.1	µg/L	1	6/15/2021 04:33
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/15/2021 04:33
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/15/2021 04:33
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/15/2021 04:33
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/15/2021 04:33
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 04:33
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/15/2021 04:33
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/15/2021 04:33
2-Butanone	U		0.52	1.7	µg/L	1	6/15/2021 04:33
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/15/2021 04:33
2-Propanol	120		33	110	µg/L	1	6/16/2021 03:50
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/15/2021 04:33
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/15/2021 04:33
Acetone	U		6.2	21	µg/L	1	6/15/2021 04:33
Benzene	U		0.46	1.5	µg/L	1	6/15/2021 04:33
Bromobenzene	U		0.38	1.3	µg/L	1	6/15/2021 04:33
Bromochloromethane	U		0.45	1.5	µg/L	1	6/15/2021 04:33
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/15/2021 04:33
Bromoform	U		0.56	1.9	µg/L	1	6/15/2021 04:33
Bromomethane	U		0.90	3.0	µg/L	1	6/15/2021 04:33
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/15/2021 04:33
Chlorobenzene	U		0.40	1.3	µg/L	1	6/15/2021 04:33
Chloroethane	U		0.68	2.3	µg/L	1	6/15/2021 04:33
Chloroform	U		0.46	1.5	µg/L	1	6/15/2021 04:33
Chloromethane	U		0.83	2.8	µg/L	1	6/15/2021 04:33

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-6
Collection Date: 6/3/2021 09:10 AM

Work Order: 21060304
Lab ID: 21060304-48
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	4.8		0.42	1.4	µg/L	1	6/15/2021 04:33
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/15/2021 04:33
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/15/2021 04:33
Dibromomethane	U		0.65	2.2	µg/L	1	6/15/2021 04:33
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/15/2021 04:33
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/15/2021 04:33
Ethylbenzene	0.55	J	0.34	1.1	µg/L	1	6/15/2021 04:33
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/15/2021 04:33
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/15/2021 04:33
m,p-Xylene	1.0	J	0.81	2.7	µg/L	1	6/15/2021 04:33
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/15/2021 04:33
Methylene chloride	U		0.86	2.9	µg/L	1	6/15/2021 04:33
Naphthalene	U		0.77	2.6	µg/L	1	6/15/2021 04:33
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 04:33
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/15/2021 04:33
o-Xylene	0.87	J	0.31	1.0	µg/L	1	6/15/2021 04:33
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/15/2021 04:33
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/15/2021 04:33
Styrene	U		0.33	1.1	µg/L	1	6/15/2021 04:33
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/15/2021 04:33
Tetrachloroethene	4.5		0.39	1.3	µg/L	1	6/15/2021 04:33
Toluene	U		0.45	1.5	µg/L	1	6/15/2021 04:33
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/15/2021 04:33
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/15/2021 04:33
Trichloroethene	2.8		0.43	1.4	µg/L	1	6/15/2021 04:33
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/15/2021 04:33
Vinyl chloride	U		0.53	1.8	µg/L	1	6/15/2021 04:33
Xylenes, Total	1.9	J	0.81	4.4	µg/L	1	6/15/2021 04:33
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/15/2021 04:33
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	6/16/2021 03:50
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	6/15/2021 04:33
Surr: 4-Bromofluorobenzene	97.6			80-110	%REC	1	6/16/2021 03:50
Surr: Dibromofluoromethane	106			85-115	%REC	1	6/15/2021 04:33
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/16/2021 03:50
Surr: Toluene-d8	98.4			85-110	%REC	1	6/15/2021 04:33
Surr: Toluene-d8	98.9			85-110	%REC	1	6/16/2021 03:50

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-19R
Collection Date: 6/3/2021 10:40 AM

Work Order: 21060304
Lab ID: 21060304-49
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: MF	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	6/15/2021 04:09
1,1,1-Trichloroethane	U		2.3	7.6	µg/L	5	6/15/2021 04:09
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	6/15/2021 04:09
1,1,2-Trichloroethane	U		2.3	7.7	µg/L	5	6/15/2021 04:09
1,1-Dichloroethane	5.5	J	2.2	7.4	µg/L	5	6/15/2021 04:09
1,1-Dichloroethene	U		2.0	6.8	µg/L	5	6/15/2021 04:09
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	6/15/2021 04:09
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	6/15/2021 04:09
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	6/15/2021 04:09
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	6/15/2021 04:09
1,2,4-Trimethylbenzene	U		2.2	7.5	µg/L	5	6/15/2021 04:09
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	6/15/2021 04:09
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	6/15/2021 04:09
1,2-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/15/2021 04:09
1,2-Dichloroethane	U		2.2	7.2	µg/L	5	6/15/2021 04:09
1,2-Dichloropropane	U		2.4	8.0	µg/L	5	6/15/2021 04:09
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	6/15/2021 04:09
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/15/2021 04:09
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	6/15/2021 04:09
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	6/15/2021 04:09
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	6/15/2021 04:09
2-Butanone	U		2.6	8.6	µg/L	5	6/15/2021 04:09
2-Chlorotoluene	U		1.8	6.0	µg/L	5	6/15/2021 04:09
2-Propanol	U		160	540	µg/L	5	6/16/2021 05:19
4-Chlorotoluene	U		1.6	5.1	µg/L	5	6/15/2021 04:09
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	6/15/2021 04:09
Acetone	U		31	100	µg/L	5	6/15/2021 04:09
Benzene	29		2.3	7.6	µg/L	5	6/15/2021 04:09
Bromobenzene	U		1.9	6.3	µg/L	5	6/15/2021 04:09
Bromochloromethane	U		2.2	7.4	µg/L	5	6/15/2021 04:09
Bromodichloromethane	U		2.4	8.2	µg/L	5	6/15/2021 04:09
Bromoform	U		2.8	9.4	µg/L	5	6/15/2021 04:09
Bromomethane	U		4.5	15	µg/L	5	6/15/2021 04:09
Carbon tetrachloride	U		2.0	6.8	µg/L	5	6/15/2021 04:09
Chlorobenzene	4.6	J	2.0	6.7	µg/L	5	6/15/2021 04:09
Chloroethane	120		3.4	11	µg/L	5	6/15/2021 04:09
Chloroform	U		2.3	7.6	µg/L	5	6/15/2021 04:09
Chloromethane	U		4.2	14	µg/L	5	6/15/2021 04:09

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-19R
Collection Date: 6/3/2021 10:40 AM

Work Order: 21060304
Lab ID: 21060304-49
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		2.1	6.9	µg/L	5	6/15/2021 04:09
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	6/15/2021 04:09
Dibromochloromethane	U		2.0	6.6	µg/L	5	6/15/2021 04:09
Dibromomethane	U		3.2	11	µg/L	5	6/15/2021 04:09
Dichlorodifluoromethane	U		3.4	11	µg/L	5	6/15/2021 04:09
Diisopropyl ether	3.4	J	2.0	6.8	µg/L	5	6/15/2021 04:09
Ethylbenzene	1,000		8.5	28	µg/L	25	6/16/2021 00:07
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	6/15/2021 04:09
Isopropylbenzene	U		1.8	5.8	µg/L	5	6/15/2021 04:09
m,p-Xylene	1,500		20	68	µg/L	25	6/16/2021 00:07
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	6/15/2021 04:09
Methylene chloride	U		4.3	14	µg/L	5	6/15/2021 04:09
Naphthalene	U		3.8	13	µg/L	5	6/15/2021 04:09
n-Butylbenzene	U		1.7	5.6	µg/L	5	6/15/2021 04:09
n-Propylbenzene	U		2.4	8.0	µg/L	5	6/15/2021 04:09
o-Xylene	680		7.8	26	µg/L	25	6/16/2021 00:07
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	6/15/2021 04:09
sec-Butylbenzene	U		1.5	5.0	µg/L	5	6/15/2021 04:09
Styrene	U		1.6	5.6	µg/L	5	6/15/2021 04:09
tert-Butylbenzene	U		2.0	6.6	µg/L	5	6/15/2021 04:09
Tetrachloroethene	U		2.0	6.6	µg/L	5	6/15/2021 04:09
Toluene	14		2.2	7.6	µg/L	5	6/15/2021 04:09
trans-1,2-Dichloroethene	U		2.4	8.0	µg/L	5	6/15/2021 04:09
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	6/15/2021 04:09
Trichloroethene	U		2.2	7.2	µg/L	5	6/15/2021 04:09
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	6/15/2021 04:09
Vinyl chloride	U		2.6	8.8	µg/L	5	6/15/2021 04:09
Xylenes, Total	2,200		20	110	µg/L	25	6/16/2021 00:07
<i>Surr: 1,2-Dichloroethane-d4</i>	103			75-120	%REC	5	6/15/2021 04:09
<i>Surr: 1,2-Dichloroethane-d4</i>	103			75-120	%REC	25	6/16/2021 00:07
<i>Surr: 1,2-Dichloroethane-d4</i>	98.2			75-120	%REC	5	6/16/2021 05:19
<i>Surr: 4-Bromofluorobenzene</i>	103			80-110	%REC	5	6/15/2021 04:09
<i>Surr: 4-Bromofluorobenzene</i>	98.1			80-110	%REC	25	6/16/2021 00:07
<i>Surr: 4-Bromofluorobenzene</i>	98.2			80-110	%REC	5	6/16/2021 05:19
<i>Surr: Dibromofluoromethane</i>	102			85-115	%REC	5	6/15/2021 04:09
<i>Surr: Dibromofluoromethane</i>	105			85-115	%REC	25	6/16/2021 00:07
<i>Surr: Dibromofluoromethane</i>	97.4			85-115	%REC	5	6/16/2021 05:19
<i>Surr: Toluene-d8</i>	95.1			85-110	%REC	5	6/15/2021 04:09
<i>Surr: Toluene-d8</i>	101			85-110	%REC	25	6/16/2021 00:07
<i>Surr: Toluene-d8</i>	95.9			85-110	%REC	5	6/16/2021 05:19

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-28
Collection Date: 6/3/2021 11:15 AM

Work Order: 21060304
Lab ID: 21060304-50
Matrix: GROUNDWATER

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	6/15/2021 04:57
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 04:57
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/15/2021 04:57
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 04:57
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/15/2021 04:57
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/15/2021 04:57
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/15/2021 04:57
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/15/2021 04:57
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 04:57
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/15/2021 04:57
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/15/2021 04:57
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/15/2021 04:57
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/15/2021 04:57
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/15/2021 04:57
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/15/2021 04:57
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/15/2021 04:57
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/15/2021 04:57
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/15/2021 04:57
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 04:57
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/15/2021 04:57
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/15/2021 04:57
2-Butanone	U		0.52	1.7	µg/L	1	6/15/2021 04:57
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/15/2021 04:57
2-Propanol	48	J	33	110	µg/L	1	6/16/2021 13:53
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/15/2021 04:57
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/15/2021 04:57
Acetone	U		6.2	21	µg/L	1	6/15/2021 04:57
Benzene	U		0.46	1.5	µg/L	1	6/15/2021 04:57
Bromobenzene	U		0.38	1.3	µg/L	1	6/15/2021 04:57
Bromochloromethane	U		0.45	1.5	µg/L	1	6/15/2021 04:57
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/15/2021 04:57
Bromoform	U		0.56	1.9	µg/L	1	6/15/2021 04:57
Bromomethane	U		0.90	3.0	µg/L	1	6/15/2021 04:57
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/15/2021 04:57
Chlorobenzene	U		0.40	1.3	µg/L	1	6/15/2021 04:57
Chloroethane	U		0.68	2.3	µg/L	1	6/15/2021 04:57
Chloroform	U		0.46	1.5	µg/L	1	6/15/2021 04:57
Chloromethane	U		0.83	2.8	µg/L	1	6/15/2021 04:57

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-28
Collection Date: 6/3/2021 11:15 AM

Work Order: 21060304
Lab ID: 21060304-50
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/15/2021 04:57
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/15/2021 04:57
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/15/2021 04:57
Dibromomethane	U		0.65	2.2	µg/L	1	6/15/2021 04:57
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/15/2021 04:57
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/15/2021 04:57
Ethylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 04:57
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/15/2021 04:57
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/15/2021 04:57
m,p-Xylene	U		0.81	2.7	µg/L	1	6/15/2021 04:57
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/15/2021 04:57
Methylene chloride	U		0.86	2.9	µg/L	1	6/15/2021 04:57
Naphthalene	U		0.77	2.6	µg/L	1	6/15/2021 04:57
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 04:57
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/15/2021 04:57
o-Xylene	U		0.31	1.0	µg/L	1	6/15/2021 04:57
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/15/2021 04:57
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/15/2021 04:57
Styrene	U		0.33	1.1	µg/L	1	6/15/2021 04:57
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/15/2021 04:57
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/15/2021 04:57
Toluene	U		0.45	1.5	µg/L	1	6/15/2021 04:57
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/15/2021 04:57
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/15/2021 04:57
Trichloroethene	U		0.43	1.4	µg/L	1	6/15/2021 04:57
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/15/2021 04:57
Vinyl chloride	U		0.53	1.8	µg/L	1	6/15/2021 04:57
Xylenes, Total	U		0.81	4.4	µg/L	1	6/15/2021 04:57
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/15/2021 04:57
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/16/2021 13:53
Surr: 4-Bromofluorobenzene	95.7			80-110	%REC	1	6/15/2021 04:57
Surr: 4-Bromofluorobenzene	98.1			80-110	%REC	1	6/16/2021 13:53
Surr: Dibromofluoromethane	102			85-115	%REC	1	6/15/2021 04:57
Surr: Dibromofluoromethane	101			85-115	%REC	1	6/16/2021 13:53
Surr: Toluene-d8	97.8			85-110	%REC	1	6/15/2021 04:57
Surr: Toluene-d8	97.6			85-110	%REC	1	6/16/2021 13:53

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
 Project: WRR (55929.005)
 Sample ID: TW-1
 Collection Date: 6/3/2021 08:40 AM

Work Order: 21060304
 Lab ID: 21060304-51
 Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		3.8	13	µg/L	10	6/16/2021 04:12
1,1,1-Trichloroethane	U		4.6	15	µg/L	10	6/16/2021 04:12
1,1,2,2-Tetrachloroethane	U		4.0	13	µg/L	10	6/16/2021 04:12
1,1,2-Trichloroethane	U		4.6	15	µg/L	10	6/16/2021 04:12
1,1-Dichloroethane	75		4.4	15	µg/L	10	6/16/2021 04:12
1,1-Dichloroethene	U		4.0	14	µg/L	10	6/16/2021 04:12
1,1-Dichloropropene	U		3.7	12	µg/L	10	6/16/2021 04:12
1,2,3-Trichlorobenzene	U		4.2	14	µg/L	10	6/16/2021 04:12
1,2,3-Trichloropropane	U		4.0	13	µg/L	10	6/16/2021 04:12
1,2,4-Trichlorobenzene	U		4.5	15	µg/L	10	6/16/2021 04:12
1,2,4-Trimethylbenzene	910		4.5	15	µg/L	10	6/16/2021 04:12
1,2-Dibromo-3-chloropropane	U		4.3	14	µg/L	10	6/16/2021 04:12
1,2-Dibromoethane	U		4.1	14	µg/L	10	6/16/2021 04:12
1,2-Dichlorobenzene	21		3.2	11	µg/L	10	6/16/2021 04:12
1,2-Dichloroethane	U		4.4	14	µg/L	10	6/16/2021 04:12
1,2-Dichloropropane	U		4.8	16	µg/L	10	6/16/2021 04:12
1,3,5-Trimethylbenzene	240		6.5	22	µg/L	10	6/16/2021 04:12
1,3-Dichlorobenzene	U		3.3	11	µg/L	10	6/16/2021 04:12
1,3-Dichloropropane	U		4.0	13	µg/L	10	6/16/2021 04:12
1,4-Dichlorobenzene	U		3.5	12	µg/L	10	6/16/2021 04:12
2,2-Dichloropropane	U		5.2	17	µg/L	10	6/16/2021 04:12
2-Butanone	U		5.2	17	µg/L	10	6/16/2021 04:12
2-Chlorotoluene	U		3.6	12	µg/L	10	6/16/2021 04:12
2-Propanol	1,200		330	1,100	µg/L	10	6/16/2021 04:12
4-Chlorotoluene	U		3.1	10	µg/L	10	6/16/2021 04:12
4-Methyl-2-pentanone	U		5.2	17	µg/L	10	6/16/2021 04:12
Acetone	U		62	210	µg/L	10	6/16/2021 04:12
Benzene	U		4.6	15	µg/L	10	6/16/2021 04:12
Bromobenzene	U		3.8	13	µg/L	10	6/16/2021 04:12
Bromochloromethane	U		4.5	15	µg/L	10	6/16/2021 04:12
Bromodichloromethane	U		4.9	16	µg/L	10	6/16/2021 04:12
Bromoform	U		5.6	19	µg/L	10	6/16/2021 04:12
Bromomethane	U		9.0	30	µg/L	10	6/16/2021 04:12
Carbon tetrachloride	U		4.0	14	µg/L	10	6/16/2021 04:12
Chlorobenzene	U		4.0	13	µg/L	10	6/16/2021 04:12
Chloroethane	11	J	6.8	23	µg/L	10	6/16/2021 04:12
Chloroform	U		4.6	15	µg/L	10	6/16/2021 04:12
Chloromethane	U		8.3	28	µg/L	10	6/16/2021 04:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TW-1
Collection Date: 6/3/2021 08:40 AM

Work Order: 21060304
Lab ID: 21060304-51
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	79		4.2	14	µg/L	10	6/16/2021 04:12
cis-1,3-Dichloropropene	U		5.7	19	µg/L	10	6/16/2021 04:12
Dibromochloromethane	U		4.0	13	µg/L	10	6/16/2021 04:12
Dibromomethane	U		6.5	22	µg/L	10	6/16/2021 04:12
Dichlorodifluoromethane	U		6.8	23	µg/L	10	6/16/2021 04:12
Diisopropyl ether	U		4.1	14	µg/L	10	6/16/2021 04:12
Ethylbenzene	1,100		34	110	µg/L	100	6/14/2021 18:53
Hexachlorobutadiene	U		5.6	19	µg/L	10	6/16/2021 04:12
Isopropylbenzene	92		3.5	12	µg/L	10	6/16/2021 04:12
m,p-Xylene	2,800		81	270	µg/L	100	6/14/2021 18:53
Methyl tert-butyl ether	U		4.5	15	µg/L	10	6/16/2021 04:12
Methylene chloride	U		8.6	29	µg/L	10	6/16/2021 04:12
Naphthalene	56		7.7	26	µg/L	10	6/16/2021 04:12
n-Butylbenzene	U		3.4	11	µg/L	10	6/16/2021 04:12
n-Propylbenzene	180		4.8	16	µg/L	10	6/16/2021 04:12
o-Xylene	690		3.1	10	µg/L	10	6/16/2021 04:12
p-Isopropyltoluene	8.0	J	2.6	8.8	µg/L	10	6/16/2021 04:12
sec-Butylbenzene	9.9	J	3.0	10	µg/L	10	6/16/2021 04:12
Styrene	U		3.3	11	µg/L	10	6/16/2021 04:12
tert-Butylbenzene	U		3.9	13	µg/L	10	6/16/2021 04:12
Tetrachloroethene	U		3.9	13	µg/L	10	6/16/2021 04:12
Toluene	370		4.5	15	µg/L	10	6/16/2021 04:12
trans-1,2-Dichloroethene	U		4.8	16	µg/L	10	6/16/2021 04:12
trans-1,3-Dichloropropene	U		3.8	27	µg/L	10	6/16/2021 04:12
Trichloroethene	U		4.3	14	µg/L	10	6/16/2021 04:12
Trichlorofluoromethane	U		5.2	17	µg/L	10	6/16/2021 04:12
Vinyl chloride	120		5.3	18	µg/L	10	6/16/2021 04:12
Xylenes, Total	3,400		81	440	µg/L	100	6/14/2021 18:53
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	100	6/14/2021 18:53
Surr: 1,2-Dichloroethane-d4	99.9			75-120	%REC	10	6/16/2021 04:12
Surr: 4-Bromofluorobenzene	96.1			80-110	%REC	100	6/14/2021 18:53
Surr: 4-Bromofluorobenzene	97.6			80-110	%REC	10	6/16/2021 04:12
Surr: Dibromofluoromethane	102			85-115	%REC	100	6/14/2021 18:53
Surr: Dibromofluoromethane	95.6			85-115	%REC	10	6/16/2021 04:12
Surr: Toluene-d8	98.4			85-110	%REC	100	6/14/2021 18:53
Surr: Toluene-d8	97.1			85-110	%REC	10	6/16/2021 04:12

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TW-1 Dup
Collection Date: 6/3/2021 08:41 AM

Work Order: 21060304
Lab ID: 21060304-52
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	6/16/2021 04:56
1,1,1-Trichloroethane	U		2.3	7.6	µg/L	5	6/16/2021 04:56
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	6/16/2021 04:56
1,1,2-Trichloroethane	U		2.3	7.7	µg/L	5	6/16/2021 04:56
1,1-Dichloroethane	64		2.2	7.4	µg/L	5	6/16/2021 04:56
1,1-Dichloroethene	U		2.0	6.8	µg/L	5	6/16/2021 04:56
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	6/16/2021 04:56
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	6/16/2021 04:56
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	6/16/2021 04:56
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	6/16/2021 04:56
1,2,4-Trimethylbenzene	740		45	150	µg/L	100	6/15/2021 05:21
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	6/16/2021 04:56
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	6/16/2021 04:56
1,2-Dichlorobenzene	18		1.6	5.4	µg/L	5	6/16/2021 04:56
1,2-Dichloroethane	U		2.2	7.2	µg/L	5	6/16/2021 04:56
1,2-Dichloropropane	U		2.4	8.0	µg/L	5	6/16/2021 04:56
1,3,5-Trimethylbenzene	220		3.2	11	µg/L	5	6/16/2021 04:56
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	6/16/2021 04:56
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	6/16/2021 04:56
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	6/16/2021 04:56
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	6/16/2021 04:56
2-Butanone	U		2.6	8.6	µg/L	5	6/16/2021 04:56
2-Chlorotoluene	U		1.8	6.0	µg/L	5	6/16/2021 04:56
2-Propanol	U		160	540	µg/L	5	6/16/2021 04:56
4-Chlorotoluene	U		1.6	5.1	µg/L	5	6/16/2021 04:56
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	6/16/2021 04:56
Acetone	U		31	100	µg/L	5	6/16/2021 04:56
Benzene	U		2.3	7.6	µg/L	5	6/16/2021 04:56
Bromobenzene	U		1.9	6.3	µg/L	5	6/16/2021 04:56
Bromochloromethane	U		2.2	7.4	µg/L	5	6/16/2021 04:56
Bromodichloromethane	U		2.4	8.2	µg/L	5	6/16/2021 04:56
Bromoform	U		2.8	9.4	µg/L	5	6/16/2021 04:56
Bromomethane	U		4.5	15	µg/L	5	6/16/2021 04:56
Carbon tetrachloride	U		2.0	6.8	µg/L	5	6/16/2021 04:56
Chlorobenzene	U		2.0	6.7	µg/L	5	6/16/2021 04:56
Chloroethane	11		3.4	11	µg/L	5	6/16/2021 04:56
Chloroform	U		2.3	7.6	µg/L	5	6/16/2021 04:56
Chloromethane	U		4.2	14	µg/L	5	6/16/2021 04:56

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TW-1 Dup
Collection Date: 6/3/2021 08:41 AM

Work Order: 21060304
Lab ID: 21060304-52
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	68		2.1	6.9	µg/L	5	6/16/2021 04:56
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	6/16/2021 04:56
Dibromochloromethane	U		2.0	6.6	µg/L	5	6/16/2021 04:56
Dibromomethane	U		3.2	11	µg/L	5	6/16/2021 04:56
Dichlorodifluoromethane	U		3.4	11	µg/L	5	6/16/2021 04:56
Diisopropyl ether	U		2.0	6.8	µg/L	5	6/16/2021 04:56
Ethylbenzene	1,000		34	110	µg/L	100	6/15/2021 05:21
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	6/16/2021 04:56
Isopropylbenzene	84		1.8	5.8	µg/L	5	6/16/2021 04:56
m,p-Xylene	2,700		81	270	µg/L	100	6/15/2021 05:21
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	6/16/2021 04:56
Methylene chloride	U		4.3	14	µg/L	5	6/16/2021 04:56
Naphthalene	47		3.8	13	µg/L	5	6/16/2021 04:56
n-Butylbenzene	U		1.7	5.6	µg/L	5	6/16/2021 04:56
n-Propylbenzene	160		2.4	8.0	µg/L	5	6/16/2021 04:56
o-Xylene	630		31	100	µg/L	100	6/15/2021 05:21
p-Isopropyltoluene	7.2		1.3	4.4	µg/L	5	6/16/2021 04:56
sec-Butylbenzene	8.4		1.5	5.0	µg/L	5	6/16/2021 04:56
Styrene	U		1.6	5.6	µg/L	5	6/16/2021 04:56
tert-Butylbenzene	U		2.0	6.6	µg/L	5	6/16/2021 04:56
Tetrachloroethene	U		2.0	6.6	µg/L	5	6/16/2021 04:56
Toluene	320		2.2	7.6	µg/L	5	6/16/2021 04:56
trans-1,2-Dichloroethene	U		2.4	8.0	µg/L	5	6/16/2021 04:56
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	6/16/2021 04:56
Trichloroethene	U		2.2	7.2	µg/L	5	6/16/2021 04:56
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	6/16/2021 04:56
Vinyl chloride	100		2.6	8.8	µg/L	5	6/16/2021 04:56
Xylenes, Total	3,300		81	440	µg/L	100	6/15/2021 05:21
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	100	6/15/2021 05:21
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	5	6/16/2021 04:56
Surr: 4-Bromofluorobenzene	99.3			80-110	%REC	100	6/15/2021 05:21
Surr: 4-Bromofluorobenzene	101			80-110	%REC	5	6/16/2021 04:56
Surr: Dibromofluoromethane	102			85-115	%REC	100	6/15/2021 05:21
Surr: Dibromofluoromethane	97.0			85-115	%REC	5	6/16/2021 04:56
Surr: Toluene-d8	99.3			85-110	%REC	100	6/15/2021 05:21
Surr: Toluene-d8	97.0			85-110	%REC	5	6/16/2021 04:56

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TS Inf
Collection Date: 6/3/2021 11:40 AM

Work Order: 21060304
Lab ID: 21060304-53
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING			Method: SW8260B				Analyst: SJB
1,4-Dioxane	U		4.4	10	µg/L	10	6/16/2021 23:43
Surr: Toluene-d8	122			74-124	%REC	10	6/16/2021 23:43
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: JNS
1,1,1,2-Tetrachloroethane	U		19	64	µg/L	50	6/16/2021 13:31
1,1,1-Trichloroethane	27	J	23	76	µg/L	50	6/16/2021 13:31
1,1,2,2-Tetrachloroethane	U		20	67	µg/L	50	6/16/2021 13:31
1,1,2-Trichloroethane	U		23	77	µg/L	50	6/16/2021 13:31
1,1-Dichloroethane	37	J	22	74	µg/L	50	6/16/2021 13:31
1,1-Dichloroethene	U		20	68	µg/L	50	6/16/2021 13:31
1,1-Dichloropropene	U		18	62	µg/L	50	6/16/2021 13:31
1,2,3-Trichlorobenzene	U		21	70	µg/L	50	6/16/2021 13:31
1,2,3-Trichloropropane	U		20	66	µg/L	50	6/16/2021 13:31
1,2,4-Trichlorobenzene	U		22	76	µg/L	50	6/16/2021 13:31
1,2,4-Trimethylbenzene	58	J	22	75	µg/L	50	6/16/2021 13:31
1,2-Dibromo-3-chloropropane	U		22	72	µg/L	50	6/16/2021 13:31
1,2-Dibromoethane	U		20	68	µg/L	50	6/16/2021 13:31
1,2-Dichlorobenzene	U		16	54	µg/L	50	6/16/2021 13:31
1,2-Dichloroethane	U		22	72	µg/L	50	6/16/2021 13:31
1,2-Dichloropropane	U		24	80	µg/L	50	6/16/2021 13:31
1,3,5-Trimethylbenzene	U		32	110	µg/L	50	6/16/2021 13:31
1,3-Dichlorobenzene	U		16	54	µg/L	50	6/16/2021 13:31
1,3-Dichloropropane	U		20	66	µg/L	50	6/16/2021 13:31
1,4-Dichlorobenzene	U		18	58	µg/L	50	6/16/2021 13:31
2,2-Dichloropropane	U		26	86	µg/L	50	6/16/2021 13:31
2-Butanone	4,800		26	86	µg/L	50	6/16/2021 13:31
2-Chlorotoluene	U		18	60	µg/L	50	6/16/2021 13:31
2-Propanol	3,500	J	1,600	5,400	µg/L	50	6/16/2021 13:31
4-Chlorotoluene	U		16	51	µg/L	50	6/16/2021 13:31
4-Methyl-2-pentanone	780		26	86	µg/L	50	6/16/2021 13:31
Acetone	4,700		620	2,100	µg/L	100	6/15/2021 05:45
Benzene	U		23	76	µg/L	50	6/16/2021 13:31
Bromobenzene	U		19	63	µg/L	50	6/16/2021 13:31
Bromochloromethane	U		22	74	µg/L	50	6/16/2021 13:31
Bromodichloromethane	U		24	82	µg/L	50	6/16/2021 13:31
Bromoform	U		28	94	µg/L	50	6/16/2021 13:31
Bromomethane	U		45	150	µg/L	50	6/16/2021 13:31
Carbon tetrachloride	U		20	68	µg/L	50	6/16/2021 13:31
Chlorobenzene	U		20	67	µg/L	50	6/16/2021 13:31

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TS Inf
Collection Date: 6/3/2021 11:40 AM

Work Order: 21060304
Lab ID: 21060304-53
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroethane	110	J	34	110	µg/L	50	6/16/2021 13:31
Chloroform	U		23	76	µg/L	50	6/16/2021 13:31
Chloromethane	U		42	140	µg/L	50	6/16/2021 13:31
cis-1,2-Dichloroethene	53	J	21	69	µg/L	50	6/16/2021 13:31
cis-1,3-Dichloropropene	U		28	96	µg/L	50	6/16/2021 13:31
Dibromochloromethane	U		20	66	µg/L	50	6/16/2021 13:31
Dibromomethane	U		32	110	µg/L	50	6/16/2021 13:31
Dichlorodifluoromethane	U		34	110	µg/L	50	6/16/2021 13:31
Diisopropyl ether	U		20	68	µg/L	50	6/16/2021 13:31
Ethylbenzene	570		17	56	µg/L	50	6/16/2021 13:31
Hexachlorobutadiene	U		28	94	µg/L	50	6/16/2021 13:31
Isopropylbenzene	U		18	58	µg/L	50	6/16/2021 13:31
m,p-Xylene	2,100		40	140	µg/L	50	6/16/2021 13:31
Methyl tert-butyl ether	U		22	76	µg/L	50	6/16/2021 13:31
Methylene chloride	U		43	140	µg/L	50	6/16/2021 13:31
Naphthalene	U		38	130	µg/L	50	6/16/2021 13:31
n-Butylbenzene	U		17	56	µg/L	50	6/16/2021 13:31
n-Propylbenzene	U		24	80	µg/L	50	6/16/2021 13:31
o-Xylene	690		16	52	µg/L	50	6/16/2021 13:31
p-Isopropyltoluene	U		13	44	µg/L	50	6/16/2021 13:31
sec-Butylbenzene	U		15	50	µg/L	50	6/16/2021 13:31
Styrene	U		16	56	µg/L	50	6/16/2021 13:31
tert-Butylbenzene	U		20	66	µg/L	50	6/16/2021 13:31
Tetrachloroethene	U		20	66	µg/L	50	6/16/2021 13:31
Toluene	9,000		45	150	µg/L	100	6/15/2021 05:45
trans-1,2-Dichloroethene	U		24	80	µg/L	50	6/16/2021 13:31
trans-1,3-Dichloropropene	U		19	140	µg/L	50	6/16/2021 13:31
Trichloroethene	U		22	72	µg/L	50	6/16/2021 13:31
Trichlorofluoromethane	U		26	86	µg/L	50	6/16/2021 13:31
Vinyl chloride	U		26	88	µg/L	50	6/16/2021 13:31
Xylenes, Total	2,800		40	220	µg/L	50	6/16/2021 13:31
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	100	6/15/2021 05:45
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	50	6/16/2021 13:31
Surr: 4-Bromofluorobenzene	100			80-110	%REC	100	6/15/2021 05:45
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	50	6/16/2021 13:31
Surr: Dibromofluoromethane	104			85-115	%REC	100	6/15/2021 05:45
Surr: Dibromofluoromethane	97.0			85-115	%REC	50	6/16/2021 13:31
Surr: Toluene-d8	99.4			85-110	%REC	100	6/15/2021 05:45
Surr: Toluene-d8	98.2			85-110	%REC	50	6/16/2021 13:31

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Res. Eff
Collection Date: 6/3/2021 11:45 AM

Work Order: 21060304
Lab ID: 21060304-54
Matrix: GROUNDWATER

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	6/15/2021 06:09
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 06:09
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	6/15/2021 06:09
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	6/15/2021 06:09
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	6/15/2021 06:09
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	6/15/2021 06:09
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	6/15/2021 06:09
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	6/15/2021 06:09
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 06:09
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	6/15/2021 06:09
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	6/15/2021 06:09
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	6/15/2021 06:09
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	6/15/2021 06:09
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	6/15/2021 06:09
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	6/15/2021 06:09
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	6/15/2021 06:09
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	6/15/2021 06:09
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	6/15/2021 06:09
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	6/15/2021 06:09
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	6/15/2021 06:09
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	6/15/2021 06:09
2-Butanone	U		0.52	1.7	µg/L	1	6/15/2021 06:09
2-Chlorotoluene	U		0.36	1.2	µg/L	1	6/15/2021 06:09
2-Propanol	U		33	110	µg/L	1	6/16/2021 14:15
4-Chlorotoluene	U		0.31	1.0	µg/L	1	6/15/2021 06:09
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	6/15/2021 06:09
Acetone	U		6.2	21	µg/L	1	6/15/2021 06:09
Benzene	U		0.46	1.5	µg/L	1	6/15/2021 06:09
Bromobenzene	U		0.38	1.3	µg/L	1	6/15/2021 06:09
Bromochloromethane	U		0.45	1.5	µg/L	1	6/15/2021 06:09
Bromodichloromethane	U		0.49	1.6	µg/L	1	6/15/2021 06:09
Bromoform	U		0.56	1.9	µg/L	1	6/15/2021 06:09
Bromomethane	U		0.90	3.0	µg/L	1	6/15/2021 06:09
Carbon tetrachloride	U		0.40	1.4	µg/L	1	6/15/2021 06:09
Chlorobenzene	U		0.40	1.3	µg/L	1	6/15/2021 06:09
Chloroethane	U		0.68	2.3	µg/L	1	6/15/2021 06:09
Chloroform	U		0.46	1.5	µg/L	1	6/15/2021 06:09
Chloromethane	U		0.83	2.8	µg/L	1	6/15/2021 06:09

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Res. Eff
Collection Date: 6/3/2021 11:45 AM

Work Order: 21060304
Lab ID: 21060304-54
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	6/15/2021 06:09
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	6/15/2021 06:09
Dibromochloromethane	U		0.40	1.3	µg/L	1	6/15/2021 06:09
Dibromomethane	U		0.65	2.2	µg/L	1	6/15/2021 06:09
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	6/15/2021 06:09
Diisopropyl ether	U		0.41	1.4	µg/L	1	6/15/2021 06:09
Ethylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 06:09
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	6/15/2021 06:09
Isopropylbenzene	U		0.35	1.2	µg/L	1	6/15/2021 06:09
m,p-Xylene	U		0.81	2.7	µg/L	1	6/15/2021 06:09
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	6/15/2021 06:09
Methylene chloride	U		0.86	2.9	µg/L	1	6/15/2021 06:09
Naphthalene	U		0.77	2.6	µg/L	1	6/15/2021 06:09
n-Butylbenzene	U		0.34	1.1	µg/L	1	6/15/2021 06:09
n-Propylbenzene	U		0.48	1.6	µg/L	1	6/15/2021 06:09
o-Xylene	U		0.31	1.0	µg/L	1	6/15/2021 06:09
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	6/15/2021 06:09
sec-Butylbenzene	U		0.30	1.0	µg/L	1	6/15/2021 06:09
Styrene	U		0.33	1.1	µg/L	1	6/15/2021 06:09
tert-Butylbenzene	U		0.39	1.3	µg/L	1	6/15/2021 06:09
Tetrachloroethene	U		0.39	1.3	µg/L	1	6/15/2021 06:09
Toluene	U		0.45	1.5	µg/L	1	6/15/2021 06:09
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	6/15/2021 06:09
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	6/15/2021 06:09
Trichloroethene	U		0.43	1.4	µg/L	1	6/15/2021 06:09
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	6/15/2021 06:09
Vinyl chloride	U		0.53	1.8	µg/L	1	6/15/2021 06:09
Xylenes, Total	U		0.81	4.4	µg/L	1	6/15/2021 06:09
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/15/2021 06:09
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	6/16/2021 14:15
Surr: 4-Bromofluorobenzene	95.2			80-110	%REC	1	6/15/2021 06:09
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	6/16/2021 14:15
Surr: Dibromofluoromethane	100			85-115	%REC	1	6/15/2021 06:09
Surr: Dibromofluoromethane	99.8			85-115	%REC	1	6/16/2021 14:15
Surr: Toluene-d8	97.6			85-110	%REC	1	6/15/2021 06:09
Surr: Toluene-d8	97.4			85-110	%REC	1	6/16/2021 14:15

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-4
Collection Date: 6/3/2021 09:45 AM

Work Order: 21060304
Lab ID: 21060304-55
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: MF	
1,1,1,2-Tetrachloroethane	U		7.6	26	µg/L	20	6/15/2021 06:33
1,1,1-Trichloroethane	4,800		92	300	µg/L	200	6/16/2021 00:23
1,1,2,2-Tetrachloroethane	U		8.0	27	µg/L	20	6/15/2021 06:33
1,1,2-Trichloroethane	880		9.2	31	µg/L	20	6/15/2021 06:33
1,1-Dichloroethane	98		8.8	29	µg/L	20	6/15/2021 06:33
1,1-Dichloroethene	65		8.0	27	µg/L	20	6/15/2021 06:33
1,1-Dichloropropene	U		7.4	25	µg/L	20	6/15/2021 06:33
1,2,3-Trichlorobenzene	U		8.4	28	µg/L	20	6/15/2021 06:33
1,2,3-Trichloropropane	U		8.0	26	µg/L	20	6/15/2021 06:33
1,2,4-Trichlorobenzene	U		9.0	30	µg/L	20	6/15/2021 06:33
1,2,4-Trimethylbenzene	U		9.0	30	µg/L	20	6/15/2021 06:33
1,2-Dibromo-3-chloropropane	U		8.6	29	µg/L	20	6/15/2021 06:33
1,2-Dibromoethane	U		8.2	27	µg/L	20	6/15/2021 06:33
1,2-Dichlorobenzene	24		6.4	21	µg/L	20	6/15/2021 06:33
1,2-Dichloroethane	18	J	8.8	29	µg/L	20	6/15/2021 06:33
1,2-Dichloropropane	50		9.6	32	µg/L	20	6/15/2021 06:33
1,3,5-Trimethylbenzene	U		13	43	µg/L	20	6/15/2021 06:33
1,3-Dichlorobenzene	U		6.6	22	µg/L	20	6/15/2021 06:33
1,3-Dichloropropane	U		8.0	26	µg/L	20	6/15/2021 06:33
1,4-Dichlorobenzene	7.4	J	7.0	23	µg/L	20	6/15/2021 06:33
2,2-Dichloropropane	U		10	34	µg/L	20	6/15/2021 06:33
2-Butanone	160		10	35	µg/L	20	6/15/2021 06:33
2-Chlorotoluene	U		7.2	24	µg/L	20	6/15/2021 06:33
2-Propanol	U		660	2,200	µg/L	20	6/16/2021 05:41
4-Chlorotoluene	U		6.2	20	µg/L	20	6/15/2021 06:33
4-Methyl-2-pentanone	U		10	35	µg/L	20	6/15/2021 06:33
Acetone	U		120	410	µg/L	20	6/15/2021 06:33
Benzene	U		9.2	30	µg/L	20	6/15/2021 06:33
Bromobenzene	U		7.6	25	µg/L	20	6/15/2021 06:33
Bromochloromethane	U		9.0	30	µg/L	20	6/15/2021 06:33
Bromodichloromethane	U		9.8	33	µg/L	20	6/15/2021 06:33
Bromoform	U		11	37	µg/L	20	6/15/2021 06:33
Bromomethane	U		18	60	µg/L	20	6/15/2021 06:33
Carbon tetrachloride	U		8.0	27	µg/L	20	6/15/2021 06:33
Chlorobenzene	U		8.0	27	µg/L	20	6/15/2021 06:33
Chloroethane	U		14	45	µg/L	20	6/15/2021 06:33
Chloroform	13	J	9.2	31	µg/L	20	6/15/2021 06:33
Chloromethane	U		17	55	µg/L	20	6/15/2021 06:33

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

ALS Group, USA

Date: 17-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-4
Collection Date: 6/3/2021 09:45 AM

Work Order: 21060304
Lab ID: 21060304-55
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1,100		8.4	28	µg/L	20	6/15/2021 06:33
cis-1,3-Dichloropropene	U		11	38	µg/L	20	6/15/2021 06:33
Dibromochloromethane	U		8.0	26	µg/L	20	6/15/2021 06:33
Dibromomethane	U		13	43	µg/L	20	6/15/2021 06:33
Dichlorodifluoromethane	U		14	45	µg/L	20	6/15/2021 06:33
Diisopropyl ether	U		8.2	27	µg/L	20	6/15/2021 06:33
Ethylbenzene	7.2	J	6.8	22	µg/L	20	6/15/2021 06:33
Hexachlorobutadiene	U		11	37	µg/L	20	6/15/2021 06:33
Isopropylbenzene	U		7.0	23	µg/L	20	6/15/2021 06:33
m,p-Xylene	U		16	54	µg/L	20	6/15/2021 06:33
Methyl tert-butyl ether	10	J	9.0	30	µg/L	20	6/15/2021 06:33
Methylene chloride	64		17	58	µg/L	20	6/15/2021 06:33
Naphthalene	U		15	51	µg/L	20	6/15/2021 06:33
n-Butylbenzene	U		6.8	22	µg/L	20	6/15/2021 06:33
n-Propylbenzene	U		9.6	32	µg/L	20	6/15/2021 06:33
o-Xylene	6.4	J	6.2	21	µg/L	20	6/15/2021 06:33
p-Isopropyltoluene	U		5.2	18	µg/L	20	6/15/2021 06:33
sec-Butylbenzene	U		6.0	20	µg/L	20	6/15/2021 06:33
Styrene	U		6.6	22	µg/L	20	6/15/2021 06:33
tert-Butylbenzene	U		7.8	26	µg/L	20	6/15/2021 06:33
Tetrachloroethene	11,000		78	260	µg/L	200	6/16/2021 00:23
Toluene	U		9.0	30	µg/L	20	6/15/2021 06:33
trans-1,2-Dichloroethene	U		9.6	32	µg/L	20	6/15/2021 06:33
trans-1,3-Dichloropropene	U		7.6	55	µg/L	20	6/15/2021 06:33
Trichloroethene	8,800		86	290	µg/L	200	6/16/2021 00:23
Trichlorofluoromethane	U		10	34	µg/L	20	6/15/2021 06:33
Vinyl chloride	U		11	35	µg/L	20	6/15/2021 06:33
Xylenes, Total	U		16	89	µg/L	20	6/15/2021 06:33
Surr: 1,2-Dichloroethane-d4	105			75-120	%REC	20	6/15/2021 06:33
Surr: 1,2-Dichloroethane-d4	105			75-120	%REC	200	6/16/2021 00:23
Surr: 1,2-Dichloroethane-d4	98.4			75-120	%REC	20	6/16/2021 05:41
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	20	6/15/2021 06:33
Surr: 4-Bromofluorobenzene	105			80-110	%REC	200	6/16/2021 00:23
Surr: 4-Bromofluorobenzene	101			80-110	%REC	20	6/16/2021 05:41
Surr: Dibromofluoromethane	107			85-115	%REC	20	6/15/2021 06:33
Surr: Dibromofluoromethane	101			85-115	%REC	200	6/16/2021 00:23
Surr: Dibromofluoromethane	98.2			85-115	%REC	20	6/16/2021 05:41
Surr: Toluene-d8	93.8			85-110	%REC	20	6/15/2021 06:33
Surr: Toluene-d8	104			85-110	%REC	200	6/16/2021 00:23
Surr: Toluene-d8	96.5			85-110	%REC	20	6/16/2021 05:41

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319743** Instrument ID **GC5** Method: **RSK-175**

MBLK		Sample ID: RSK MBLK1-210614-R319743				Units: µg/L		Analysis Date: 6/14/2021 04:50 PM			
Client ID:		Run ID: GC5_210614C				SeqNo: 7486083		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.5	5.0								
Ethene	U	1.7	5.0								
Methane	U	2	5.0								

LCS		Sample ID: RSK LCS1-210614-R319743				Units: µg/L		Analysis Date: 6/14/2021 04:51 PM			
Client ID:		Run ID: GC5_210614C				SeqNo: 7486084		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	31.93	1.5	5.0	36.1	0	88.4	75-125	0			
Ethene	29.91	1.7	5.0	33.7	0	88.8	75-125	0			
Methane	18.25	2	5.0	19.2	0	95.1	75-125	0			

MS		Sample ID: 21061069-01E MS				Units: µg/L		Analysis Date: 6/14/2021 05:31 PM			
Client ID:		Run ID: GC5_210614C				SeqNo: 7486107		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	28.91	1.5	5.0	36.1	0	80.1	75-125	0			
Ethene	27.66	1.7	5.0	33.7	0	82.1	75-125	0			
Methane	15.82	2	5.0	19.2	0.81	78.2	75-125	0			

MSD		Sample ID: 21061069-01E MSD				Units: µg/L		Analysis Date: 6/14/2021 05:16 PM			
Client ID:		Run ID: GC5_210614C				SeqNo: 7486099		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	28.6	1.5	5.0	36.1	0	79.2	75-125	28.91	1.08	20	
Ethene	27.56	1.7	5.0	33.7	0	81.8	75-125	27.66	0.362	20	
Methane	13.11	2	5.0	19.2	0.81	64.1	75-125	15.82	18.7	20	S

The following samples were analyzed in this batch:

21060304-30E	21060304-31E	21060304-32E
21060304-33E	21060304-41E	

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: 178312 Instrument ID ICPMS3 Method: SW6020B

MBLK		Sample ID: MBLK-178312-178312				Units: mg/L		Analysis Date: 6/10/2021 01:54 PM			
Client ID:		Run ID: ICPMS3_210610A		SeqNo: 7476106		Prep Date: 6/10/2021		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.05	0.080								
Manganese	U	0.0025	0.0050								

LCS		Sample ID: LCS-178312-178312				Units: mg/L		Analysis Date: 6/10/2021 01:56 PM			
Client ID:		Run ID: ICPMS3_210610A		SeqNo: 7476107		Prep Date: 6/10/2021		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.09737	0.0025	0.0050	0.1	0	97.4	80-120	0			

LCS		Sample ID: LCS-178312-178312				Units: mg/L		Analysis Date: 6/11/2021 02:52 PM			
Client ID:		Run ID: ICPMS4_210611A		SeqNo: 7479889		Prep Date: 6/10/2021		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.47	0.05	0.080	10	0	105	80-120	0			

MS		Sample ID: 21060653-01CMS				Units: mg/L		Analysis Date: 6/10/2021 02:20 PM			
Client ID:		Run ID: ICPMS3_210610A		SeqNo: 7476121		Prep Date: 6/10/2021		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	15.14	0.05	0.080	10	4.816	103	75-125	0			
Manganese	0.256	0.0025	0.0050	0.1	0.1522	104	75-125	0			

MSD		Sample ID: 21060653-01CMSD				Units: mg/L		Analysis Date: 6/10/2021 02:21 PM			
Client ID:		Run ID: ICPMS3_210610A		SeqNo: 7476122		Prep Date: 6/10/2021		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	15.05	0.05	0.080	10	4.816	102	75-125	15.14	0.611	20	
Manganese	0.2538	0.0025	0.0050	0.1	0.1522	102	75-125	0.256	0.886	20	

The following samples were analyzed in this batch:

21060304-30B	21060304-31B	21060304-32B
21060304-33B	21060304-41B	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319664A** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: 11V-BLKW1-210613-R319664A				Units: µg/L		Analysis Date: 6/13/2021 12:49 PM			
Client ID:		Run ID: VMS11_210613A		SeqNo: 7483353		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								
2-Propanol	U	33	110								
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								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319664A	Instrument ID VMS11	Method: SW8260C						
Diisopropyl ether	U	0.41	1.4					
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.71</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.6</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.94</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.7</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.43</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319664A** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: 11V-LCSW1-210613-R319664A				Units: µg/L		Analysis Date: 6/13/2021 12:05 PM			
Client ID:		Run ID: VMS11_210613A			SeqNo: 7483352		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	17.33	0.38	1.3	20	0	86.6	73-114	0			
1,1,1-Trichloroethane	18.35	0.46	1.5	20	0	91.8	75-130	0			
1,1,2,2-Tetrachloroethane	16.91	0.4	1.3	20	0	84.6	75-130	0			
1,1,2-Trichloroethane	17.86	0.46	1.5	20	0	89.3	75-125	0			
1,1-Dichloroethane	18.68	0.44	1.5	20	0	93.4	68-142	0			
1,1-Dichloroethene	18.72	0.4	1.4	20	0	93.6	70-145	0			
1,1-Dichloropropene	17.45	0.37	1.2	20	0	87.2	75-135	0			
1,2,3-Trichlorobenzene	16.05	0.42	1.4	20	0	80.2	70-140	0			
1,2,3-Trichloropropane	16.61	0.4	1.3	20	0	83	75-125	0			
1,2,4-Trichlorobenzene	16.95	0.45	1.5	20	0	84.8	70-135	0			
1,2,4-Trimethylbenzene	16.86	0.45	1.5	20	0	84.3	75-130	0			
1,2-Dibromo-3-chloropropane	15.14	0.43	1.4	20	0	75.7	60-130	0			
1,2-Dibromoethane	18.49	0.41	1.4	20	0	92.4	67-155	0			
1,2-Dichlorobenzene	17.29	0.32	1.1	20	0	86.4	70-130	0			
1,2-Dichloroethane	19.46	0.44	1.4	20	0	97.3	78-125	0			
1,2-Dichloropropane	18.69	0.48	1.6	20	0	93.4	75-125	0			
1,3,5-Trimethylbenzene	17.52	0.65	2.2	20	0	87.6	75-130	0			
1,3-Dichlorobenzene	17.64	0.33	1.1	20	0	88.2	75-130	0			
1,3-Dichloropropane	18.24	0.4	1.3	20	0	91.2	75-125	0			
1,4-Dichlorobenzene	17.68	0.35	1.2	20	0	88.4	75-130	0			
2,2-Dichloropropane	18.23	0.52	1.7	20	0	91.2	43-150	0			
2-Butanone	21.18	0.52	1.7	20	0	106	55-150	0			
2-Chlorotoluene	17.72	0.36	1.2	20	0	88.6	76-117	0			
4-Chlorotoluene	17.83	0.31	1.0	20	0	89.2	80-125	0			
4-Methyl-2-pentanone	23.23	0.52	1.7	20	0	116	77-178	0			
Acetone	26.75	6.2	21	20	0	134	60-160	0			
Benzene	18.84	0.46	1.5	20	0	94.2	70-130	0			
Bromobenzene	17.87	0.38	1.3	20	0	89.4	80-125	0			
Bromochloromethane	19.63	0.45	1.5	20	0	98.2	72-141	0			
Bromodichloromethane	18.13	0.49	1.6	20	0	90.6	75-125	0			
Bromoform	14.11	0.56	1.9	20	0	70.6	60-125	0			
Bromomethane	18.38	0.9	3.0	20	0	91.9	30-185	0			
Carbon tetrachloride	18.78	0.4	1.4	20	0	93.9	65-140	0			
Chlorobenzene	18.21	0.4	1.3	20	0	91	80-120	0			
Chloroethane	15.32	0.68	2.3	20	0	76.6	31-172	0			
Chloroform	18.7	0.46	1.5	20	0	93.5	66-135	0			
Chloromethane	16.93	0.83	2.8	20	0	84.6	46-148	0			
cis-1,2-Dichloroethene	19.8	0.42	1.4	20	0	99	75-134	0			
cis-1,3-Dichloropropene	17.37	0.57	1.9	20	0	86.8	70-130	0			
Dibromochloromethane	16.09	0.4	1.3	20	0	80.4	60-115	0			
Dibromomethane	18.78	0.65	2.2	20	0	93.9	79-126	0			
Dichlorodifluoromethane	20.81	0.68	2.3	20	0	104	10-180	0			
Diisopropyl ether	20.2	0.41	1.4	20	0	101	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319664A	Instrument ID VMS11		Method: SW8260C						
Ethylbenzene	17.7	0.34	1.1	20	0	88.5	76-123	0	
Hexachlorobutadiene	16.58	0.56	1.9	20	0	82.9	70-155	0	
Isopropylbenzene	17.71	0.35	1.2	20	0	88.6	80-127	0	
m,p-Xylene	36.11	0.81	2.7	40	0	90.3	75-130	0	
Methyl tert-butyl ether	22.3	0.45	1.5	20	0	112	68-129	0	
Methylene chloride	19.88	0.86	2.9	20	0	99.4	72-125	0	
Naphthalene	15.25	0.77	2.6	20	0	76.2	55-160	0	
n-Butylbenzene	16.62	0.34	1.1	20	0	83.1	75-145	0	
n-Propylbenzene	17.26	0.48	1.6	20	0	86.3	76-116	0	
o-Xylene	18.38	0.31	1.0	20	0	91.9	76-127	0	
p-Isopropyltoluene	17	0.26	0.88	20	0	85	61-164	0	
sec-Butylbenzene	16.95	0.3	1.0	20	0	84.8	80-134	0	
Styrene	18.48	0.33	1.1	20	0	92.4	79-117	0	
tert-Butylbenzene	17.36	0.39	1.3	20	0	86.8	70-130	0	
Tetrachloroethene	18.17	0.39	1.3	20	0	90.8	68-166	0	
Toluene	17.54	0.45	1.5	20	0	87.7	76-125	0	
trans-1,2-Dichloroethene	19.1	0.48	1.6	20	0	95.5	80-140	0	
trans-1,3-Dichloropropene	16.61	0.38	2.7	20	0	83	56-132	0	
Trichloroethene	18.01	0.43	1.4	20	0	90	77-125	0	
Trichlorofluoromethane	16.54	0.52	1.7	20	0	82.7	60-140	0	
Vinyl chloride	15.26	0.53	1.8	20	0	76.3	50-136	0	
Xylenes, Total	54.49	0.81	4.4	60	0	90.8	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.6	0	0	20	0	98	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.06	0	0	20	0	100	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.8	0	0	20	0	99	85-115	0	
<i>Surr: Toluene-d8</i>	19.44	0	0	20	0	97.2	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319664A Instrument ID VMS11 Method: SW8260C

MS		Sample ID: 21060304-10A MS				Units: µg/L		Analysis Date: 6/13/2021 08:34 PM			
Client ID: MW-111A		Run ID: VMS11_210613A				SeqNo: 7483376		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	160.7	3.8	13	200	0	80.4	73-114	0			
1,1,1-Trichloroethane	196.5	4.6	15	200	0	98.2	75-130	0			
1,1,2,2-Tetrachloroethane	169.8	4	13	200	0	84.9	75-130	0			
1,1,2-Trichloroethane	177.1	4.6	15	200	0	88.6	75-125	0			
1,1-Dichloroethane	200.7	4.4	15	200	2.6	99	68-142	0			
1,1-Dichloroethene	201.1	4	14	200	0	101	70-145	0			
1,1-Dichloropropene	188.2	3.7	12	200	0	94.1	75-135	0			
1,2,3-Trichlorobenzene	154.9	4.2	14	200	0	77.4	70-140	0			
1,2,3-Trichloropropane	167	4	13	200	0	83.5	75-125	0			
1,2,4-Trichlorobenzene	160.2	4.5	15	200	0	80.1	70-135	0			
1,2,4-Trimethylbenzene	174.8	4.5	15	200	0	87.4	75-130	0			
1,2-Dibromo-3-chloropropane	125.8	4.3	14	200	0	62.9	60-130	0			
1,2-Dibromoethane	180.2	4.1	14	200	0	90.1	67-155	0			
1,2-Dichlorobenzene	171.5	3.2	11	200	0	85.8	70-130	0			
1,2-Dichloroethane	196.6	4.4	14	200	0	98.3	78-125	0			
1,2-Dichloropropane	188.5	4.8	16	200	0	94.2	75-125	0			
1,3,5-Trimethylbenzene	182.4	6.5	22	200	0	91.2	75-130	0			
1,3-Dichlorobenzene	179.5	3.3	11	200	0	89.8	75-130	0			
1,3-Dichloropropane	183.2	4	13	200	0	91.6	75-125	0			
1,4-Dichlorobenzene	177.6	3.5	12	200	0	88.8	75-130	0			
2,2-Dichloropropane	168.2	5.2	17	200	0	84.1	43-150	0			
2-Butanone	190.3	5.2	17	200	0	95.2	55-150	0			
2-Chlorotoluene	182	3.6	12	200	0	91	76-117	0			
4-Chlorotoluene	183.3	3.1	10	200	0	91.6	80-125	0			
4-Methyl-2-pentanone	204.2	5.2	17	200	0	102	77-178	0			
Acetone	218.5	62	210	200	0	109	60-160	0			
Benzene	196.2	4.6	15	200	0	98.1	70-130	0			
Bromobenzene	184.6	3.8	13	200	0	92.3	80-125	0			
Bromochloromethane	197.2	4.5	15	200	0	98.6	72-141	0			
Bromodichloromethane	169.5	4.9	16	200	0	84.8	75-125	0			
Bromoform	122.8	5.6	19	200	0	61.4	60-125	0			
Bromomethane	113.8	9	30	200	0	56.9	30-185	0			
Carbon tetrachloride	192.9	4	14	200	0	96.4	65-140	0			
Chlorobenzene	182.9	4	13	200	0	91.4	80-120	0			
Chloroethane	358.2	6.8	23	200	183.2	87.5	31-172	0			
Chloroform	193.1	4.6	15	200	0	96.6	66-135	0			
Chloromethane	174	8.3	28	200	0	87	46-148	0			
cis-1,2-Dichloroethene	201	4.2	14	200	0	100	75-134	0			
cis-1,3-Dichloropropene	161.1	5.7	19	200	0	80.6	70-130	0			
Dibromochloromethane	148.2	4	13	200	0	74.1	60-115	0			
Dibromomethane	183.7	6.5	22	200	0	91.8	79-126	0			
Dichlorodifluoromethane	232.2	6.8	23	200	0	116	10-180	0			
Diisopropyl ether	180	4.1	14	200	0	90	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319664A	Instrument ID VMS11		Method: SW8260C						
Ethylbenzene	187.4	3.4	11	200	0	93.7	76-123	0	
Hexachlorobutadiene	169.3	5.6	19	200	0	84.6	70-155	0	
Isopropylbenzene	187.2	3.5	12	200	0	93.6	80-127	0	
m,p-Xylene	379.4	8.1	27	400	0	94.8	75-130	0	
Methyl tert-butyl ether	197.9	4.5	15	200	0	99	68-129	0	
Methylene chloride	202.6	8.6	29	200	0	101	72-125	0	
Naphthalene	148.3	7.7	26	200	0	74.2	55-160	0	
n-Butylbenzene	167.9	3.4	11	200	0	84	75-145	0	
n-Propylbenzene	178.6	4.8	16	200	0	89.3	76-116	0	
o-Xylene	188.3	3.1	10	200	0	94.2	76-127	0	
p-Isopropyltoluene	174.8	2.6	8.8	200	0	87.4	61-164	0	
sec-Butylbenzene	177.4	3	10	200	0	88.7	80-134	0	
Styrene	186.6	3.3	11	200	0	93.3	79-117	0	
tert-Butylbenzene	183.4	3.9	13	200	0	91.7	70-130	0	
Tetrachloroethene	193	3.9	13	200	0	96.5	68-166	0	
Toluene	194.7	4.5	15	200	9.6	92.6	76-125	0	
trans-1,2-Dichloroethene	207.1	4.8	16	200	4.8	101	80-140	0	
trans-1,3-Dichloropropene	149.4	3.8	27	200	0	74.7	56-132	0	
Trichloroethene	186.6	4.3	14	200	0	93.3	77-125	0	
Trichlorofluoromethane	183.1	5.2	17	200	0	91.6	60-140	0	
Vinyl chloride	163	5.3	18	200	0	81.5	50-136	0	
Xylenes, Total	567.7	8.1	44	600	0	94.6	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	197.5	0	0	200	0	98.8	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	201.2	0	0	200	0	101	80-110	0	
<i>Surr: Dibromofluoromethane</i>	198.1	0	0	200	0	99	85-115	0	
<i>Surr: Toluene-d8</i>	191.7	0	0	200	0	95.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319664A** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 21060304-10A MSD				Units: µg/L			Analysis Date: 6/13/2021 08:56 PM		
Client ID: MW-111A		Run ID: VMS11_210613A				SeqNo: 7483377			Prep Date:		DF: 10
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	168.7	3.8	13	200	0	84.4	73-114	160.7	4.86	30	
1,1,1-Trichloroethane	201.7	4.6	15	200	0	101	75-130	196.5	2.61	30	
1,1,2,2-Tetrachloroethane	177.1	4	13	200	0	88.6	75-130	169.8	4.21	30	
1,1,2-Trichloroethane	182.5	4.6	15	200	0	91.2	75-125	177.1	3	30	
1,1-Dichloroethane	208	4.4	15	200	2.6	103	68-142	200.7	3.57	30	
1,1-Dichloroethene	206.3	4	14	200	0	103	70-145	201.1	2.55	30	
1,1-Dichloropropene	194.2	3.7	12	200	0	97.1	75-135	188.2	3.14	30	
1,2,3-Trichlorobenzene	162.7	4.2	14	200	0	81.4	70-140	154.9	4.91	30	
1,2,3-Trichloropropane	171.5	4	13	200	0	85.8	75-125	167	2.66	30	
1,2,4-Trichlorobenzene	172.8	4.5	15	200	0	86.4	70-135	160.2	7.57	30	
1,2,4-Trimethylbenzene	179.7	4.5	15	200	0	89.8	75-130	174.8	2.76	30	
1,2-Dibromo-3-chloropropane	136	4.3	14	200	0	68	60-130	125.8	7.79	30	
1,2-Dibromoethane	187.6	4.1	14	200	0	93.8	67-155	180.2	4.02	30	
1,2-Dichlorobenzene	181.4	3.2	11	200	0	90.7	70-130	171.5	5.61	30	
1,2-Dichloroethane	206.5	4.4	14	200	0	103	78-125	196.6	4.91	30	
1,2-Dichloropropane	195.3	4.8	16	200	0	97.6	75-125	188.5	3.54	30	
1,3,5-Trimethylbenzene	188.3	6.5	22	200	0	94.2	75-130	182.4	3.18	30	
1,3-Dichlorobenzene	188.8	3.3	11	200	0	94.4	75-130	179.5	5.05	30	
1,3-Dichloropropane	191.6	4	13	200	0	95.8	75-125	183.2	4.48	30	
1,4-Dichlorobenzene	186.3	3.5	12	200	0	93.2	75-130	177.6	4.78	30	
2,2-Dichloropropane	177.1	5.2	17	200	0	88.6	43-150	168.2	5.15	30	
2-Butanone	183.3	5.2	17	200	0	91.6	55-150	190.3	3.75	30	
2-Chlorotoluene	191.9	3.6	12	200	0	96	76-117	182	5.3	30	
4-Chlorotoluene	188.9	3.1	10	200	0	94.4	80-125	183.3	3.01	30	
4-Methyl-2-pentanone	207.9	5.2	17	200	0	104	77-178	204.2	1.8	30	
Acetone	222.6	62	210	200	0	111	60-160	218.5	1.86	30	
Benzene	207.1	4.6	15	200	0	104	70-130	196.2	5.41	30	
Bromobenzene	192.2	3.8	13	200	0	96.1	80-125	184.6	4.03	30	
Bromochloromethane	202.7	4.5	15	200	0	101	72-141	197.2	2.75	30	
Bromodichloromethane	185.8	4.9	16	200	0	92.9	75-125	169.5	9.18	30	
Bromoform	130.7	5.6	19	200	0	65.4	60-125	122.8	6.23	30	
Bromomethane	150.7	9	30	200	0	75.4	30-185	113.8	27.9	30	
Carbon tetrachloride	203.9	4	14	200	0	102	65-140	192.9	5.54	30	
Chlorobenzene	188.6	4	13	200	0	94.3	80-120	182.9	3.07	30	
Chloroethane	366.6	6.8	23	200	183.2	91.7	31-172	358.2	2.32	30	
Chloroform	195	4.6	15	200	0	97.5	66-135	193.1	0.979	30	
Chloromethane	178.1	8.3	28	200	0	89	46-148	174	2.33	30	
cis-1,2-Dichloroethene	207	4.2	14	200	0	104	75-134	201	2.94	30	
cis-1,3-Dichloropropene	174.6	5.7	19	200	0	87.3	70-130	161.1	8.04	30	
Dibromochloromethane	154.3	4	13	200	0	77.2	60-115	148.2	4.03	30	
Dibromomethane	194.1	6.5	22	200	0	97	79-126	183.7	5.51	30	
Dichlorodifluoromethane	232.6	6.8	23	200	0	116	10-180	232.2	0.172	30	
Diisopropyl ether	183.4	4.1	14	200	0	91.7	58-133	180	1.87	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319664A	Instrument ID VMS11			Method: SW8260C						
Ethylbenzene	192.4	3.4	11	200	0	96.2	76-123	187.4	2.63	30
Hexachlorobutadiene	179	5.6	19	200	0	89.5	70-155	169.3	5.57	30
Isopropylbenzene	190.1	3.5	12	200	0	95	80-127	187.2	1.54	30
m,p-Xylene	390.3	8.1	27	400	0	97.6	75-130	379.4	2.83	30
Methyl tert-butyl ether	201.8	4.5	15	200	0	101	68-129	197.9	1.95	30
Methylene chloride	205.3	8.6	29	200	0	103	72-125	202.6	1.32	30
Naphthalene	160.2	7.7	26	200	0	80.1	55-160	148.3	7.71	30
n-Butylbenzene	177.9	3.4	11	200	0	89	75-145	167.9	5.78	30
n-Propylbenzene	189.5	4.8	16	200	0	94.8	76-116	178.6	5.92	30
o-Xylene	192.6	3.1	10	200	0	96.3	76-127	188.3	2.26	30
p-Isopropyltoluene	185.3	2.6	8.8	200	0	92.6	61-164	174.8	5.83	30
sec-Butylbenzene	187.3	3	10	200	0	93.6	80-134	177.4	5.43	30
Styrene	199.8	3.3	11	200	0	99.9	79-117	186.6	6.83	30
tert-Butylbenzene	189.9	3.9	13	200	0	95	70-130	183.4	3.48	30
Tetrachloroethene	200.5	3.9	13	200	0	100	68-166	193	3.81	30
Toluene	203.6	4.5	15	200	9.6	97	76-125	194.7	4.47	30
trans-1,2-Dichloroethene	211.6	4.8	16	200	4.8	103	80-140	207.1	2.15	30
trans-1,3-Dichloropropene	160.1	3.8	27	200	0	80	56-132	149.4	6.91	30
Trichloroethene	196.3	4.3	14	200	0	98.2	77-125	186.6	5.07	30
Trichlorofluoromethane	186.7	5.2	17	200	0	93.4	60-140	183.1	1.95	30
Vinyl chloride	168.5	5.3	18	200	0	84.2	50-136	163	3.32	30
Xylenes, Total	582.9	8.1	44	600	0	97.2	76-127	567.7	2.64	30
<i>Surr: 1,2-Dichloroethane-d4</i>	203.3	0	0	200	0	102	75-120	197.5	2.89	30
<i>Surr: 4-Bromofluorobenzene</i>	201.6	0	0	200	0	101	80-110	201.2	0.199	30
<i>Surr: Dibromofluoromethane</i>	197.1	0	0	200	0	98.6	85-115	198.1	0.506	30
<i>Surr: Toluene-d8</i>	192.6	0	0	200	0	96.3	85-110	191.7	0.468	30

The following samples were analyzed in this batch:

21060304-01A	21060304-02A	21060304-03A
21060304-04A	21060304-05A	21060304-06A
21060304-07A	21060304-08A	21060304-09A
21060304-10A	21060304-11A	21060304-12A
21060304-13A	21060304-14A	21060304-15A
21060304-16A	21060304-17A	21060304-18A
21060304-19A		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319671** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: 11V-BLKW2-210613-R319671				Units: µg/L		Analysis Date: 6/14/2021 12:37 AM			
Client ID:		Run ID: VMS11_210613B		SeqNo: 7483728		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								
2-Propanol	U	33	110								
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								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671	Instrument ID VMS11	Method: SW8260C						
Diisopropyl ether	U	0.41	1.4					
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.26</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.95</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.55</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.8</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.11</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.6</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319671** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: 11V-LCSW2-210613-R319671				Units: µg/L		Analysis Date: 6/13/2021 11:31 PM			
Client ID:		Run ID: VMS11_210613B			SeqNo: 7483726		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	17.88	0.38	1.3	20	0	89.4	73-114	0			
1,1,1-Trichloroethane	19.54	0.46	1.5	20	0	97.7	75-130	0			
1,1,2,2-Tetrachloroethane	18.19	0.4	1.3	20	0	91	75-130	0			
1,1,2-Trichloroethane	18.75	0.46	1.5	20	0	93.8	75-125	0			
1,1-Dichloroethane	19.78	0.44	1.5	20	0	98.9	68-142	0			
1,1-Dichloroethene	19.84	0.4	1.4	20	0	99.2	70-145	0			
1,1-Dichloropropene	18.37	0.37	1.2	20	0	91.8	75-135	0			
1,2,3-Trichlorobenzene	16.89	0.42	1.4	20	0	84.4	70-140	0			
1,2,3-Trichloropropane	17.19	0.4	1.3	20	0	86	75-125	0			
1,2,4-Trichlorobenzene	17.66	0.45	1.5	20	0	88.3	70-135	0			
1,2,4-Trimethylbenzene	17.99	0.45	1.5	20	0	90	75-130	0			
1,2-Dibromo-3-chloropropane	14.02	0.43	1.4	20	0	70.1	60-130	0			
1,2-Dibromoethane	18.9	0.41	1.4	20	0	94.5	67-155	0			
1,2-Dichlorobenzene	18.26	0.32	1.1	20	0	91.3	70-130	0			
1,2-Dichloroethane	19.71	0.44	1.4	20	0	98.6	78-125	0			
1,2-Dichloropropane	19.61	0.48	1.6	20	0	98	75-125	0			
1,3,5-Trimethylbenzene	18.5	0.65	2.2	20	0	92.5	75-130	0			
1,3-Dichlorobenzene	18.48	0.33	1.1	20	0	92.4	75-130	0			
1,3-Dichloropropane	19.26	0.4	1.3	20	0	96.3	75-125	0			
1,4-Dichlorobenzene	18.77	0.35	1.2	20	0	93.8	75-130	0			
2,2-Dichloropropane	15.91	0.52	1.7	20	0	79.6	43-150	0			
2-Butanone	20.73	0.52	1.7	20	0	104	55-150	0			
2-Chlorotoluene	18.89	0.36	1.2	20	0	94.4	76-117	0			
4-Chlorotoluene	18.71	0.31	1.0	20	0	93.6	80-125	0			
4-Methyl-2-pentanone	23.6	0.52	1.7	20	0	118	77-178	0			
Acetone	27.09	6.2	21	20	0	135	60-160	0			
Benzene	19.63	0.46	1.5	20	0	98.2	70-130	0			
Bromobenzene	19.13	0.38	1.3	20	0	95.6	80-125	0			
Bromochloromethane	21.06	0.45	1.5	20	0	105	72-141	0			
Bromodichloromethane	18.28	0.49	1.6	20	0	91.4	75-125	0			
Bromoform	14.84	0.56	1.9	20	0	74.2	60-125	0			
Bromomethane	18.36	0.9	3.0	20	0	91.8	30-185	0			
Carbon tetrachloride	19.81	0.4	1.4	20	0	99	65-140	0			
Chlorobenzene	18.87	0.4	1.3	20	0	94.4	80-120	0			
Chloroethane	16.2	0.68	2.3	20	0	81	31-172	0			
Chloroform	19.82	0.46	1.5	20	0	99.1	66-135	0			
Chloromethane	17.26	0.83	2.8	20	0	86.3	46-148	0			
cis-1,2-Dichloroethene	19.98	0.42	1.4	20	0	99.9	75-134	0			
cis-1,3-Dichloropropene	17.83	0.57	1.9	20	0	89.2	70-130	0			
Dibromochloromethane	16.98	0.4	1.3	20	0	84.9	60-115	0			
Dibromomethane	19.37	0.65	2.2	20	0	96.8	79-126	0			
Dichlorodifluoromethane	21.52	0.68	2.3	20	0	108	10-180	0			
Diisopropyl ether	20.69	0.41	1.4	20	0	103	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671	Instrument ID VMS11		Method: SW8260C						
Ethylbenzene	18.86	0.34	1.1	20	0	94.3	76-123	0	
Hexachlorobutadiene	17.36	0.56	1.9	20	0	86.8	70-155	0	
Isopropylbenzene	18.6	0.35	1.2	20	0	93	80-127	0	
m,p-Xylene	38.29	0.81	2.7	40	0	95.7	75-130	0	
Methyl tert-butyl ether	22.87	0.45	1.5	20	0	114	68-129	0	
Methylene chloride	20.55	0.86	2.9	20	0	103	72-125	0	
Naphthalene	16.37	0.77	2.6	20	0	81.8	55-160	0	
n-Butylbenzene	16.91	0.34	1.1	20	0	84.6	75-145	0	
n-Propylbenzene	18.12	0.48	1.6	20	0	90.6	76-116	0	
o-Xylene	19.43	0.31	1.0	20	0	97.2	76-127	0	
p-Isopropyltoluene	17.65	0.26	0.88	20	0	88.2	61-164	0	
sec-Butylbenzene	17.91	0.3	1.0	20	0	89.6	80-134	0	
Styrene	19.14	0.33	1.1	20	0	95.7	79-117	0	
tert-Butylbenzene	18.44	0.39	1.3	20	0	92.2	70-130	0	
Tetrachloroethene	18.56	0.39	1.3	20	0	92.8	68-166	0	
Toluene	18.77	0.45	1.5	20	0	93.8	76-125	0	
trans-1,2-Dichloroethene	20.1	0.48	1.6	20	0	100	80-140	0	
trans-1,3-Dichloropropene	16.33	0.38	2.7	20	0	81.6	56-132	0	
Trichloroethene	19.02	0.43	1.4	20	0	95.1	77-125	0	
Trichlorofluoromethane	17.42	0.52	1.7	20	0	87.1	60-140	0	
Vinyl chloride	15.87	0.53	1.8	20	0	79.4	50-136	0	
Xylenes, Total	57.72	0.81	4.4	60	0	96.2	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.02	0	0	20	0	100	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.52	0	0	20	0	103	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.19	0	0	20	0	96	85-115	0	
<i>Surr: Toluene-d8</i>	19.47	0	0	20	0	97.4	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671 Instrument ID VMS11 Method: SW8260C

MS					Sample ID: 21060304-44A MS			Units: µg/L		Analysis Date: 6/14/2021 08:23 AM		
Client ID: W-2 Dup			Run ID: VMS11_210613B		SeqNo: 7483749		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	1736	38	130	2000	0	86.8	73-114	0				
1,1,1-Trichloroethane	1996	46	150	2000	0	99.8	75-130	0				
1,1,2,2-Tetrachloroethane	1793	40	130	2000	0	89.6	75-130	0				
1,1,2-Trichloroethane	1875	46	150	2000	0	93.8	75-125	0				
1,1-Dichloroethane	2044	44	150	2000	0	102	68-142	0				
1,1-Dichloroethene	2084	40	140	2000	0	104	70-145	0				
1,1-Dichloropropene	1891	37	120	2000	0	94.6	75-135	0				
1,2,3-Trichlorobenzene	1627	42	140	2000	0	81.4	70-140	0				
1,2,3-Trichloropropane	1742	40	130	2000	0	87.1	75-125	0				
1,2,4-Trichlorobenzene	1691	45	150	2000	0	84.6	70-135	0				
1,2,4-Trimethylbenzene	1830	45	150	2000	0	91.5	75-130	0				
1,2-Dibromo-3-chloropropane	1420	43	140	2000	0	71	60-130	0				
1,2-Dibromoethane	1925	41	140	2000	0	96.2	67-155	0				
1,2-Dichlorobenzene	1835	32	110	2000	0	91.8	70-130	0				
1,2-Dichloroethane	2006	44	140	2000	0	100	78-125	0				
1,2-Dichloropropane	1948	48	160	2000	0	97.4	75-125	0				
1,3,5-Trimethylbenzene	1919	65	220	2000	0	96	75-130	0				
1,3-Dichlorobenzene	1905	33	110	2000	0	95.2	75-130	0				
1,3-Dichloropropane	1920	40	130	2000	0	96	75-125	0				
1,4-Dichlorobenzene	1876	35	120	2000	0	93.8	75-130	0				
2,2-Dichloropropane	1476	52	170	2000	0	73.8	43-150	0				
2-Butanone	2071	52	170	2000	0	104	55-150	0				
2-Chlorotoluene	1949	36	120	2000	0	97.4	76-117	0				
4-Chlorotoluene	1905	31	100	2000	0	95.2	80-125	0				
4-Methyl-2-pentanone	2208	52	170	2000	0	110	77-178	0				
Acetone	2457	620	2,100	2000	0	123	60-160	0				
Benzene	2006	46	150	2000	0	100	70-130	0				
Bromobenzene	1908	38	130	2000	0	95.4	80-125	0				
Bromochloromethane	2176	45	150	2000	0	109	72-141	0				
Bromodichloromethane	1790	49	160	2000	0	89.5	75-125	0				
Bromoform	1330	56	190	2000	0	66.5	60-125	0				
Bromomethane	1052	90	300	2000	0	52.6	30-185	0				
Carbon tetrachloride	1976	40	140	2000	0	98.8	65-140	0				
Chlorobenzene	1909	40	130	2000	0	95.4	80-120	0				
Chloroethane	1615	68	230	2000	0	80.8	31-172	0				
Chloroform	2025	46	150	2000	0	101	66-135	0				
Chloromethane	1730	83	280	2000	0	86.5	46-148	0				
cis-1,2-Dichloroethene	2048	42	140	2000	0	102	75-134	0				
cis-1,3-Dichloropropene	1635	57	190	2000	0	81.8	70-130	0				
Dibromochloromethane	1569	40	130	2000	0	78.4	60-115	0				
Dibromomethane	1958	65	220	2000	0	97.9	79-126	0				
Dichlorodifluoromethane	2332	68	230	2000	0	117	10-180	0				
Diisopropyl ether	1853	41	140	2000	0	92.6	58-133	0				

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671	Instrument ID VMS11	Method: SW8260C							
Ethylbenzene	1944	34	110	2000	0	97.2	76-123	0	
Hexachlorobutadiene	1754	56	190	2000	0	87.7	70-155	0	
Isopropylbenzene	1966	35	120	2000	0	98.3	80-127	0	
m,p-Xylene	3947	81	270	4000	0	98.7	75-130	0	
Methyl tert-butyl ether	2101	45	150	2000	0	105	68-129	0	
Methylene chloride	2153	86	290	2000	0	108	72-125	0	
Naphthalene	1630	77	260	2000	0	81.5	55-160	0	
n-Butylbenzene	1783	34	110	2000	0	89.2	75-145	0	
n-Propylbenzene	1908	48	160	2000	0	95.4	76-116	0	
o-Xylene	1968	31	100	2000	0	98.4	76-127	0	
p-Isopropyltoluene	1851	26	88	2000	0	92.6	61-164	0	
sec-Butylbenzene	1895	30	100	2000	0	94.8	80-134	0	
Styrene	1985	33	110	2000	0	99.2	79-117	0	
tert-Butylbenzene	1905	39	130	2000	0	95.2	70-130	0	
Tetrachloroethene	1989	39	130	2000	0	99.4	68-166	0	
Toluene	1911	45	150	2000	0	95.6	76-125	0	
trans-1,2-Dichloroethene	2055	48	160	2000	0	103	80-140	0	
trans-1,3-Dichloropropene	1538	38	270	2000	0	76.9	56-132	0	
Trichloroethene	1950	43	140	2000	0	97.5	77-125	0	
Trichlorofluoromethane	1970	52	170	2000	0	98.5	60-140	0	
Vinyl chloride	1641	53	180	2000	0	82	50-136	0	
Xylenes, Total	5915	81	440	6000	0	98.6	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	1974	0	0	2000	0	98.7	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	2038	0	0	2000	0	102	80-110	0	
<i>Surr: Dibromofluoromethane</i>	1940	0	0	2000	0	97	85-115	0	
<i>Surr: Toluene-d8</i>	1952	0	0	2000	0	97.6	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671 Instrument ID VMS11 Method: SW8260C

MSD					Sample ID: 21060304-44A MSD			Units: µg/L		Analysis Date: 6/14/2021 08:45 AM		
Client ID: W-2 Dup			Run ID: VMS11_210613B		SeqNo: 7483750		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	1719	38	130	2000	0	86	73-114	1736	0.984	30		
1,1,1-Trichloroethane	2107	46	150	2000	0	105	75-130	1996	5.41	30		
1,1,2,2-Tetrachloroethane	1823	40	130	2000	0	91.2	75-130	1793	1.66	30		
1,1,2-Trichloroethane	1856	46	150	2000	0	92.8	75-125	1875	1.02	30		
1,1-Dichloroethane	1994	44	150	2000	0	99.7	68-142	2044	2.48	30		
1,1-Dichloroethene	2044	40	140	2000	0	102	70-145	2084	1.94	30		
1,1-Dichloropropene	1999	37	120	2000	0	100	75-135	1891	5.55	30		
1,2,3-Trichlorobenzene	1687	42	140	2000	0	84.4	70-140	1627	3.62	30		
1,2,3-Trichloropropane	1710	40	130	2000	0	85.5	75-125	1742	1.85	30		
1,2,4-Trichlorobenzene	1731	45	150	2000	0	86.6	70-135	1691	2.34	30		
1,2,4-Trimethylbenzene	1856	45	150	2000	0	92.8	75-130	1830	1.41	30		
1,2-Dibromo-3-chloropropane	1488	43	140	2000	0	74.4	60-130	1420	4.68	30		
1,2-Dibromoethane	1911	41	140	2000	0	95.6	67-155	1925	0.73	30		
1,2-Dichlorobenzene	1831	32	110	2000	0	91.6	70-130	1835	0.218	30		
1,2-Dichloroethane	2059	44	140	2000	0	103	78-125	2006	2.61	30		
1,2-Dichloropropane	2031	48	160	2000	0	102	75-125	1948	4.17	30		
1,3,5-Trimethylbenzene	1950	65	220	2000	0	97.5	75-130	1919	1.6	30		
1,3-Dichlorobenzene	1870	33	110	2000	0	93.5	75-130	1905	1.85	30		
1,3-Dichloropropane	1915	40	130	2000	0	95.8	75-125	1920	0.261	30		
1,4-Dichlorobenzene	1869	35	120	2000	0	93.4	75-130	1876	0.374	30		
2,2-Dichloropropane	1461	52	170	2000	0	73	43-150	1476	1.02	30		
2-Butanone	1907	52	170	2000	0	95.4	55-150	2071	8.25	30		
2-Chlorotoluene	1985	36	120	2000	0	99.2	76-117	1949	1.83	30		
4-Chlorotoluene	1942	31	100	2000	0	97.1	80-125	1905	1.92	30		
4-Methyl-2-pentanone	2196	52	170	2000	0	110	77-178	2208	0.545	30		
Acetone	2365	620	2,100	2000	0	118	60-160	2457	3.82	30		
Benzene	2038	46	150	2000	0	102	70-130	2006	1.58	30		
Bromobenzene	1909	38	130	2000	0	95.4	80-125	1908	0.0524	30		
Bromochloromethane	2068	45	150	2000	0	103	72-141	2176	5.09	30		
Bromodichloromethane	1861	49	160	2000	0	93	75-125	1790	3.89	30		
Bromoform	1299	56	190	2000	0	65	60-125	1330	2.36	30		
Bromomethane	1281	90	300	2000	0	64	30-185	1052	19.6	30		
Carbon tetrachloride	2044	40	140	2000	0	102	65-140	1976	3.38	30		
Chlorobenzene	1929	40	130	2000	0	96.4	80-120	1909	1.04	30		
Chloroethane	1713	68	230	2000	0	85.6	31-172	1615	5.89	30		
Chloroform	1993	46	150	2000	0	99.6	66-135	2025	1.59	30		
Chloromethane	1714	83	280	2000	0	85.7	46-148	1730	0.929	30		
cis-1,2-Dichloroethene	2013	42	140	2000	0	101	75-134	2048	1.72	30		
cis-1,3-Dichloropropene	1685	57	190	2000	0	84.2	70-130	1635	3.01	30		
Dibromochloromethane	1607	40	130	2000	0	80.4	60-115	1569	2.39	30		
Dibromomethane	1999	65	220	2000	0	100	79-126	1958	2.07	30		
Dichlorodifluoromethane	2392	68	230	2000	0	120	10-180	2332	2.54	30		
Diisopropyl ether	1863	41	140	2000	0	93.2	58-133	1853	0.538	30		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319671	Instrument ID VMS11	Method: SW8260C								
Ethylbenzene	1923	34	110	2000	0	96.2	76-123	1944	1.09	30
Hexachlorobutadiene	1738	56	190	2000	0	86.9	70-155	1754	0.916	30
Isopropylbenzene	1947	35	120	2000	0	97.4	80-127	1966	0.971	30
m,p-Xylene	3974	81	270	4000	0	99.4	75-130	3947	0.682	30
Methyl tert-butyl ether	2076	45	150	2000	0	104	68-129	2101	1.2	30
Methylene chloride	2089	86	290	2000	0	104	72-125	2153	3.02	30
Naphthalene	1647	77	260	2000	0	82.4	55-160	1630	1.04	30
n-Butylbenzene	1769	34	110	2000	0	88.4	75-145	1783	0.788	30
n-Propylbenzene	1918	48	160	2000	0	95.9	76-116	1908	0.523	30
o-Xylene	1955	31	100	2000	0	97.8	76-127	1968	0.663	30
p-Isopropyltoluene	1869	26	88	2000	0	93.4	61-164	1851	0.968	30
sec-Butylbenzene	1923	30	100	2000	0	96.2	80-134	1895	1.47	30
Styrene	1981	33	110	2000	0	99	79-117	1985	0.202	30
tert-Butylbenzene	1939	39	130	2000	0	97	70-130	1905	1.77	30
Tetrachloroethene	2001	39	130	2000	0	100	68-166	1989	0.602	30
Toluene	1907	45	150	2000	0	95.4	76-125	1911	0.21	30
trans-1,2-Dichloroethene	2064	48	160	2000	0	103	80-140	2055	0.437	30
trans-1,3-Dichloropropene	1543	38	270	2000	0	77.2	56-132	1538	0.325	30
Trichloroethene	1980	43	140	2000	0	99	77-125	1950	1.53	30
Trichlorofluoromethane	1898	52	170	2000	0	94.9	60-140	1970	3.72	30
Vinyl chloride	1615	53	180	2000	0	80.8	50-136	1641	1.6	30
Xylenes, Total	5929	81	440	6000	0	98.8	76-127	5915	0.236	30
<i>Surr: 1,2-Dichloroethane-d4</i>	2007	0	0	2000	0	100	75-120	1974	1.66	30
<i>Surr: 4-Bromofluorobenzene</i>	2071	0	0	2000	0	104	80-110	2038	1.61	30
<i>Surr: Dibromofluoromethane</i>	2016	0	0	2000	0	101	85-115	1940	3.84	30
<i>Surr: Toluene-d8</i>	1953	0	0	2000	0	97.6	85-110	1952	0.0512	30

The following samples were analyzed in this batch:

21060304-20A	21060304-21A	21060304-22A
21060304-23A	21060304-24A	21060304-25A
21060304-26A	21060304-27A	21060304-28A
21060304-29A	21060304-30A	21060304-31A
21060304-32A	21060304-33A	21060304-34A
21060304-35A	21060304-36A	21060304-43A
21060304-44A	21060304-45A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319673** Instrument ID **VMS9** Method: **SW8260C**

MBLK		Sample ID: 9V-BLKW1-210614-R319673			Units: µg/L		Analysis Date: 6/14/2021 11:07 AM				
Client ID:		Run ID: VMS9_210614A			SeqNo: 7486790		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								
2-Propanol	U	33	110								
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								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673	Instrument ID VMS9	Method: SW8260C						
Diisopropyl ether	U	0.41	1.4					
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.13</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.86</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.3</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.93</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.74</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.7</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673 Instrument ID VMS9 Method: SW8260C

LCS		Sample ID: 9V-LCSW2-210614-R319673				Units: µg/L		Analysis Date: 6/14/2021 11:38 AM			
Client ID:		Run ID: VMS9_210614A			SeqNo: 7486792		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	18.52	0.38	1.3	20	0	92.6	73-114	0			
1,1,1-Trichloroethane	18.49	0.46	1.5	20	0	92.4	75-130	0			
1,1,2,2-Tetrachloroethane	18.91	0.4	1.3	20	0	94.6	75-130	0			
1,1,2-Trichloroethane	20.81	0.46	1.5	20	0	104	75-125	0			
1,1-Dichloroethane	22.76	0.44	1.5	20	0	114	68-142	0			
1,1-Dichloroethene	20.76	0.4	1.4	20	0	104	70-145	0			
1,1-Dichloropropene	19.55	0.37	1.2	20	0	97.8	75-135	0			
1,2,3-Trichlorobenzene	18.1	0.42	1.4	20	0	90.5	70-140	0			
1,2,3-Trichloropropane	18.38	0.4	1.3	20	0	91.9	75-125	0			
1,2,4-Trichlorobenzene	18.09	0.45	1.5	20	0	90.4	70-135	0			
1,2,4-Trimethylbenzene	20.25	0.45	1.5	20	0	101	75-130	0			
1,2-Dibromo-3-chloropropane	15.61	0.43	1.4	20	0	78	60-130	0			
1,2-Dibromoethane	21.9	0.41	1.4	20	0	110	67-155	0			
1,2-Dichlorobenzene	20.23	0.32	1.1	20	0	101	70-130	0			
1,2-Dichloroethane	19.7	0.44	1.4	20	0	98.5	78-125	0			
1,2-Dichloropropane	20.73	0.48	1.6	20	0	104	75-125	0			
1,3,5-Trimethylbenzene	20.77	0.65	2.2	20	0	104	75-130	0			
1,3-Dichlorobenzene	20.21	0.33	1.1	20	0	101	75-130	0			
1,3-Dichloropropane	20.53	0.4	1.3	20	0	103	75-125	0			
1,4-Dichlorobenzene	19.51	0.35	1.2	20	0	97.6	75-130	0			
2,2-Dichloropropane	20.27	0.52	1.7	20	0	101	43-150	0			
2-Butanone	22.36	0.52	1.7	20	0	112	55-150	0			
2-Chlorotoluene	20.88	0.36	1.2	20	0	104	76-117	0			
4-Chlorotoluene	19.79	0.31	1.0	20	0	99	80-125	0			
4-Methyl-2-pentanone	23.53	0.52	1.7	20	0	118	77-178	0			
Acetone	28.98	6.2	21	20	0	145	60-160	0			
Benzene	20.2	0.46	1.5	20	0	101	70-130	0			
Bromobenzene	19.94	0.38	1.3	20	0	99.7	80-125	0			
Bromochloromethane	21.39	0.45	1.5	20	0	107	72-141	0			
Bromodichloromethane	19.46	0.49	1.6	20	0	97.3	75-125	0			
Bromoform	17.09	0.56	1.9	20	0	85.4	60-125	0			
Bromomethane	16.15	0.9	3.0	20	0	80.8	30-185	0			
Carbon tetrachloride	18.5	0.4	1.4	20	0	92.5	65-140	0			
Chlorobenzene	19.74	0.4	1.3	20	0	98.7	80-120	0			
Chloroethane	31	0.68	2.3	20	0	155	31-172	0			
Chloroform	20.94	0.46	1.5	20	0	105	66-135	0			
Chloromethane	22.19	0.83	2.8	20	0	111	46-148	0			
cis-1,2-Dichloroethene	23.21	0.42	1.4	20	0	116	75-134	0			
cis-1,3-Dichloropropene	18.1	0.57	1.9	20	0	90.5	70-130	0			
Dibromochloromethane	16.44	0.4	1.3	20	0	82.2	60-115	0			
Dibromomethane	19.23	0.65	2.2	20	0	96.2	79-126	0			
Dichlorodifluoromethane	19.18	0.68	2.3	20	0	95.9	10-180	0			
Diisopropyl ether	24.17	0.41	1.4	20	0	121	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673	Instrument ID VMS9		Method: SW8260C						
Ethylbenzene	19.7	0.34	1.1	20	0	98.5	76-123	0	
Hexachlorobutadiene	19.29	0.56	1.9	20	0	96.4	70-155	0	
Isopropylbenzene	20.58	0.35	1.2	20	0	103	80-127	0	
m,p-Xylene	41.03	0.81	2.7	40	0	103	75-130	0	
Methyl tert-butyl ether	24.38	0.45	1.5	20	0	122	68-129	0	
Methylene chloride	24.35	0.86	2.9	20	0	122	72-125	0	
Naphthalene	17.01	0.77	2.6	20	0	85	55-160	0	
n-Butylbenzene	18.81	0.34	1.1	20	0	94	75-145	0	
n-Propylbenzene	19.07	0.48	1.6	20	0	95.4	76-116	0	
o-Xylene	20.41	0.31	1.0	20	0	102	76-127	0	
p-Isopropyltoluene	19.49	0.26	0.88	20	0	97.4	61-164	0	
sec-Butylbenzene	20.45	0.3	1.0	20	0	102	80-134	0	
Styrene	20.67	0.33	1.1	20	0	103	79-117	0	
tert-Butylbenzene	19.69	0.39	1.3	20	0	98.4	70-130	0	
Tetrachloroethene	18.1	0.39	1.3	20	0	90.5	68-166	0	
Toluene	19.81	0.45	1.5	20	0	99	76-125	0	
trans-1,2-Dichloroethene	21.88	0.48	1.6	20	0	109	80-140	0	
trans-1,3-Dichloropropene	17.45	0.38	2.7	20	0	87.2	56-132	0	
Trichloroethene	18.24	0.43	1.4	20	0	91.2	77-125	0	
Trichlorofluoromethane	18.01	0.52	1.7	20	0	90	60-140	0	
Vinyl chloride	20.32	0.53	1.8	20	0	102	50-136	0	
Xylenes, Total	61.44	0.81	4.4	60	0	102	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.37	0	0	20	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.95	0	0	20	0	99.8	80-110	0	
<i>Surr: Dibromofluoromethane</i>	21.67	0	0	20	0	108	85-115	0	
<i>Surr: Toluene-d8</i>	19.76	0	0	20	0	98.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319673** Instrument ID **VMS9** Method: **SW8260C**

MS		Sample ID: 21060642-01A MS				Units: µg/L		Analysis Date: 6/14/2021 05:51 PM			
Client ID:		Run ID: VMS9_210614A				SeqNo: 7486813		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	1936	38	130	2000	0	96.8	73-114	0			
1,1,1-Trichloroethane	2085	46	150	2000	0	104	75-130	0			
1,1,2,2-Tetrachloroethane	1954	40	130	2000	0	97.7	75-130	0			
1,1,2-Trichloroethane	2036	46	150	2000	0	102	75-125	0			
1,1-Dichloroethane	2655	44	150	2000	0	133	68-142	0			
1,1-Dichloroethene	2519	40	140	2000	0	126	70-145	0			
1,1-Dichloropropene	2238	37	120	2000	0	112	75-135	0			
1,2,3-Trichlorobenzene	1839	42	140	2000	0	92	70-140	0			
1,2,3-Trichloropropane	1836	40	130	2000	0	91.8	75-125	0			
1,2,4-Trichlorobenzene	1834	45	150	2000	0	91.7	70-135	0			
1,2,4-Trimethylbenzene	1998	45	150	2000	0	99.9	75-130	0			
1,2-Dibromo-3-chloropropane	1757	43	140	2000	0	87.8	60-130	0			
1,2-Dibromoethane	2273	41	140	2000	0	114	67-155	0			
1,2-Dichlorobenzene	1989	32	110	2000	0	99.4	70-130	0			
1,2-Dichloroethane	2144	44	140	2000	0	107	78-125	0			
1,2-Dichloropropane	2113	48	160	2000	0	106	75-125	0			
1,3,5-Trimethylbenzene	2179	65	220	2000	0	109	75-130	0			
1,3-Dichlorobenzene	2043	33	110	2000	0	102	75-130	0			
1,3-Dichloropropane	2069	40	130	2000	0	103	75-125	0			
1,4-Dichlorobenzene	1957	35	120	2000	0	97.8	75-130	0			
2,2-Dichloropropane	2332	52	170	2000	0	117	43-150	0			
2-Butanone	2323	52	170	2000	0	116	55-150	0			
2-Chlorotoluene	2112	36	120	2000	0	106	76-117	0			
4-Chlorotoluene	2075	31	100	2000	0	104	80-125	0			
4-Methyl-2-pentanone	2381	52	170	2000	0	119	77-178	0			
Acetone	2222	620	2,100	2000	90	107	60-160	0			
Benzene	2173	46	150	2000	0	109	70-130	0			
Bromobenzene	2092	38	130	2000	0	105	80-125	0			
Bromochloromethane	2597	45	150	2000	0	130	72-141	0			
Bromodichloromethane	2089	49	160	2000	0	104	75-125	0			
Bromoform	1858	56	190	2000	0	92.9	60-125	0			
Bromomethane	1489	90	300	2000	0	74.4	30-185	0			
Carbon tetrachloride	2118	40	140	2000	0	106	65-140	0			
Chlorobenzene	2065	40	130	2000	0	103	80-120	0			
Chloroethane	3374	68	230	2000	0	169	31-172	0			
Chloroform	2393	46	150	2000	0	120	66-135	0			
Chloromethane	2896	83	280	2000	0	145	46-148	0			
cis-1,2-Dichloroethene	2553	42	140	2000	0	128	75-134	0			
cis-1,3-Dichloropropene	1938	57	190	2000	0	96.9	70-130	0			
Dibromochloromethane	1780	40	130	2000	0	89	60-115	0			
Dibromomethane	1983	65	220	2000	0	99.2	79-126	0			
Dichlorodifluoromethane	2193	68	230	2000	0	110	10-180	0			
Diisopropyl ether	2486	41	140	2000	0	124	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673	Instrument ID VMS9	Method: SW8260C							
Ethylbenzene	2043	34	110	2000	0	102	76-123	0	
Hexachlorobutadiene	1988	56	190	2000	0	99.4	70-155	0	
Isopropylbenzene	2135	35	120	2000	0	107	80-127	0	
m,p-Xylene	4246	81	270	4000	0	106	75-130	0	
Methyl tert-butyl ether	2511	45	150	2000	0	126	68-129	0	
Methylene chloride	2666	86	290	2000	0	133	72-125	0	S
Naphthalene	1790	77	260	2000	0	89.5	55-160	0	
n-Butylbenzene	1980	34	110	2000	0	99	75-145	0	
n-Propylbenzene	2020	48	160	2000	0	101	76-116	0	
o-Xylene	2114	31	100	2000	0	106	76-127	0	
p-Isopropyltoluene	2068	26	88	2000	0	103	61-164	0	
sec-Butylbenzene	2111	30	100	2000	0	106	80-134	0	
Styrene	2085	33	110	2000	0	104	79-117	0	
tert-Butylbenzene	2064	39	130	2000	0	103	70-130	0	
Tetrachloroethene	2092	39	130	2000	0	105	68-166	0	
Toluene	2067	45	150	2000	0	103	76-125	0	
trans-1,2-Dichloroethene	2543	48	160	2000	0	127	80-140	0	
trans-1,3-Dichloropropene	1729	38	270	2000	0	86.4	56-132	0	
Trichloroethene	1954	43	140	2000	0	97.7	77-125	0	
Trichlorofluoromethane	2149	52	170	2000	0	107	60-140	0	
Vinyl chloride	2350	53	180	2000	0	118	50-136	0	
Xylenes, Total	6360	81	440	6000	0	106	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	2073	0	0	2000	0	104	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	2032	0	0	2000	0	102	80-110	0	
<i>Surr: Dibromofluoromethane</i>	2119	0	0	2000	0	106	85-115	0	
<i>Surr: Toluene-d8</i>	1956	0	0	2000	0	97.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673 Instrument ID VMS9 Method: SW8260C

MSD		Sample ID: 21060642-01A MSD				Units: µg/L			Analysis Date: 6/14/2021 06:07 PM		
Client ID:		Run ID: VMS9_210614A				SeqNo: 7486814		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	1884	38	130	2000	0	94.2	73-114	1936	2.72	30	
1,1,1-Trichloroethane	2040	46	150	2000	0	102	75-130	2085	2.18	30	
1,1,2,2-Tetrachloroethane	1824	40	130	2000	0	91.2	75-130	1954	6.88	30	
1,1,2-Trichloroethane	1984	46	150	2000	0	99.2	75-125	2036	2.59	30	
1,1-Dichloroethane	2383	44	150	2000	0	119	68-142	2655	10.8	30	
1,1-Dichloroethene	2373	40	140	2000	0	119	70-145	2519	5.97	30	
1,1-Dichloropropene	2100	37	120	2000	0	105	75-135	2238	6.36	30	
1,2,3-Trichlorobenzene	1688	42	140	2000	0	84.4	70-140	1839	8.56	30	
1,2,3-Trichloropropane	1779	40	130	2000	0	89	75-125	1836	3.15	30	
1,2,4-Trichlorobenzene	1713	45	150	2000	0	85.6	70-135	1834	6.82	30	
1,2,4-Trimethylbenzene	2039	45	150	2000	0	102	75-130	1998	2.03	30	
1,2-Dibromo-3-chloropropane	1536	43	140	2000	0	76.8	60-130	1757	13.4	30	
1,2-Dibromoethane	2206	41	140	2000	0	110	67-155	2273	2.99	30	
1,2-Dichlorobenzene	1827	32	110	2000	0	91.4	70-130	1989	8.49	30	
1,2-Dichloroethane	2063	44	140	2000	0	103	78-125	2144	3.85	30	
1,2-Dichloropropane	2164	48	160	2000	0	108	75-125	2113	2.38	30	
1,3,5-Trimethylbenzene	2174	65	220	2000	0	109	75-130	2179	0.23	30	
1,3-Dichlorobenzene	1917	33	110	2000	0	95.8	75-130	2043	6.36	30	
1,3-Dichloropropane	2071	40	130	2000	0	104	75-125	2069	0.0966	30	
1,4-Dichlorobenzene	1858	35	120	2000	0	92.9	75-130	1957	5.19	30	
2,2-Dichloropropane	2229	52	170	2000	0	111	43-150	2332	4.52	30	
2-Butanone	2263	52	170	2000	0	113	55-150	2323	2.62	30	
2-Chlorotoluene	2096	36	120	2000	0	105	76-117	2112	0.76	30	
4-Chlorotoluene	2029	31	100	2000	0	101	80-125	2075	2.24	30	
4-Methyl-2-pentanone	2251	52	170	2000	0	113	77-178	2381	5.61	30	
Acetone	1983	620	2,100	2000	90	94.6	60-160	2222	0	30	J
Benzene	2116	46	150	2000	0	106	70-130	2173	2.66	30	
Bromobenzene	2097	38	130	2000	0	105	80-125	2092	0.239	30	
Bromochloromethane	2370	45	150	2000	0	118	72-141	2597	9.14	30	
Bromodichloromethane	1982	49	160	2000	0	99.1	75-125	2089	5.26	30	
Bromoform	1781	56	190	2000	0	89	60-125	1858	4.23	30	
Bromomethane	1449	90	300	2000	0	72.4	30-185	1489	2.72	30	
Carbon tetrachloride	2062	40	140	2000	0	103	65-140	2118	2.68	30	
Chlorobenzene	2048	40	130	2000	0	102	80-120	2065	0.827	30	
Chloroethane	3359	68	230	2000	0	168	31-172	3374	0.446	30	
Chloroform	2253	46	150	2000	0	113	66-135	2393	6.03	30	
Chloromethane	2680	83	280	2000	0	134	46-148	2896	7.75	30	
cis-1,2-Dichloroethene	2404	42	140	2000	0	120	75-134	2553	6.01	30	
cis-1,3-Dichloropropene	1978	57	190	2000	0	98.9	70-130	1938	2.04	30	
Dibromochloromethane	1814	40	130	2000	0	90.7	60-115	1780	1.89	30	
Dibromomethane	2047	65	220	2000	0	102	79-126	1983	3.18	30	
Dichlorodifluoromethane	2017	68	230	2000	0	101	10-180	2193	8.36	30	
Diisopropyl ether	2205	41	140	2000	0	110	58-133	2486	12	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319673	Instrument ID VMS9		Method: SW8260C							
Ethylbenzene	2075	34	110	2000	0	104	76-123	2043	1.55	30
Hexachlorobutadiene	1968	56	190	2000	0	98.4	70-155	1988	1.01	30
Isopropylbenzene	2115	35	120	2000	0	106	80-127	2135	0.941	30
m,p-Xylene	4206	81	270	4000	0	105	75-130	4246	0.947	30
Methyl tert-butyl ether	2352	45	150	2000	0	118	68-129	2511	6.54	30
Methylene chloride	2343	86	290	2000	0	117	72-125	2666	12.9	30
Naphthalene	1687	77	260	2000	0	84.4	55-160	1790	5.92	30
n-Butylbenzene	1874	34	110	2000	0	93.7	75-145	1980	5.5	30
n-Propylbenzene	1998	48	160	2000	0	99.9	76-116	2020	1.1	30
o-Xylene	2083	31	100	2000	0	104	76-127	2114	1.48	30
p-Isopropyltoluene	1883	26	88	2000	0	94.2	61-164	2068	9.36	30
sec-Butylbenzene	2177	30	100	2000	0	109	80-134	2111	3.08	30
Styrene	2143	33	110	2000	0	107	79-117	2085	2.74	30
tert-Butylbenzene	2110	39	130	2000	0	106	70-130	2064	2.2	30
Tetrachloroethene	2055	39	130	2000	0	103	68-166	2092	1.78	30
Toluene	2048	45	150	2000	0	102	76-125	2067	0.923	30
trans-1,2-Dichloroethene	2359	48	160	2000	0	118	80-140	2543	7.51	30
trans-1,3-Dichloropropene	1690	38	270	2000	0	84.5	56-132	1729	2.28	30
Trichloroethene	1961	43	140	2000	0	98	77-125	1954	0.358	30
Trichlorofluoromethane	1977	52	170	2000	0	98.8	60-140	2149	8.34	30
Vinyl chloride	2255	53	180	2000	0	113	50-136	2350	4.13	30
Xylenes, Total	6289	81	440	6000	0	105	76-127	6360	1.12	30
<i>Surr: 1,2-Dichloroethane-d4</i>	2074	0	0	2000	0	104	75-120	2073	0.0482	30
<i>Surr: 4-Bromofluorobenzene</i>	2020	0	0	2000	0	101	80-110	2032	0.592	30
<i>Surr: Dibromofluoromethane</i>	2025	0	0	2000	0	101	85-115	2119	4.54	30
<i>Surr: Toluene-d8</i>	1919	0	0	2000	0	96	85-110	1956	1.91	30

The following samples were analyzed in this batch:

21060304-12A	21060304-25A	21060304-33A
21060304-43A	21060304-44A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319676w** Instrument ID **VMS12** Method: **SW8260C**

MBLK		Sample ID: 12V-BLKW2-210614-R319676w				Units: µg/L		Analysis Date: 6/14/2021 11:35 AM			
Client ID:		Run ID: VMS12_210614A		SeqNo: 7486849		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								
Diisopropyl ether	U	0.41	1.4								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w	Instrument ID VMS12	Method: SW8260C						
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.29</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.05</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.54</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.7</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.64</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.2</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w Instrument ID VMS12 Method: SW8260C

LCS		Sample ID: 12V-LCSW1-210614-R319676w				Units: µg/L		Analysis Date: 6/14/2021 10:37 AM			
Client ID:		Run ID: VMS12_210614A			SeqNo: 7486848		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	19.65	0.38	1.3	20	0	98.2	73-114	0			
1,1,1-Trichloroethane	20.48	0.46	1.5	20	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	22.49	0.4	1.3	20	0	112	75-130	0			
1,1,2-Trichloroethane	20.24	0.46	1.5	20	0	101	75-125	0			
1,1-Dichloroethane	22.3	0.44	1.5	20	0	112	68-142	0			
1,1-Dichloroethene	21.27	0.4	1.4	20	0	106	70-145	0			
1,1-Dichloropropene	19.61	0.37	1.2	20	0	98	75-135	0			
1,2,3-Trichlorobenzene	19.26	0.42	1.4	20	0	96.3	70-140	0			
1,2,3-Trichloropropane	18.28	0.4	1.3	20	0	91.4	75-125	0			
1,2,4-Trichlorobenzene	19.64	0.45	1.5	20	0	98.2	70-135	0			
1,2,4-Trimethylbenzene	19.17	0.45	1.5	20	0	95.8	75-130	0			
1,2-Dibromo-3-chloropropane	19.26	0.43	1.4	20	0	96.3	60-130	0			
1,2-Dibromoethane	20	0.41	1.4	20	0	100	67-155	0			
1,2-Dichlorobenzene	20.19	0.32	1.1	20	0	101	70-130	0			
1,2-Dichloroethane	20.83	0.44	1.4	20	0	104	78-125	0			
1,2-Dichloropropane	20.64	0.48	1.6	20	0	103	75-125	0			
1,3,5-Trimethylbenzene	20.02	0.65	2.2	20	0	100	75-130	0			
1,3-Dichlorobenzene	20.52	0.33	1.1	20	0	103	75-130	0			
1,3-Dichloropropane	19.72	0.4	1.3	20	0	98.6	75-125	0			
1,4-Dichlorobenzene	20.54	0.35	1.2	20	0	103	75-130	0			
2,2-Dichloropropane	23.86	0.52	1.7	20	0	119	43-150	0			
2-Butanone	20.79	0.52	1.7	20	0	104	55-150	0			
2-Chlorotoluene	20.09	0.36	1.2	20	0	100	76-117	0			
4-Chlorotoluene	20.14	0.31	1.0	20	0	101	80-125	0			
4-Methyl-2-pentanone	26.17	0.52	1.7	20	0	131	77-178	0			
Acetone	20.09	6.2	21	20	0	100	60-160	0			J
Benzene	20.89	0.46	1.5	20	0	104	70-130	0			
Bromobenzene	20.77	0.38	1.3	20	0	104	80-125	0			
Bromochloromethane	22.25	0.45	1.5	20	0	111	72-141	0			
Bromodichloromethane	23.02	0.49	1.6	20	0	115	75-125	0			
Bromoform	20.31	0.56	1.9	20	0	102	60-125	0			
Bromomethane	23.36	0.9	3.0	20	0	117	30-185	0			
Carbon tetrachloride	20.87	0.4	1.4	20	0	104	65-140	0			
Chlorobenzene	20.09	0.4	1.3	20	0	100	80-120	0			
Chloroethane	18.94	0.68	2.3	20	0	94.7	31-172	0			
Chloroform	22.1	0.46	1.5	20	0	110	66-135	0			
Chloromethane	20.96	0.83	2.8	20	0	105	46-148	0			
cis-1,2-Dichloroethene	21.07	0.42	1.4	20	0	105	75-134	0			
cis-1,3-Dichloropropene	21.99	0.57	1.9	20	0	110	70-130	0			
Dibromochloromethane	20.4	0.4	1.3	20	0	102	60-115	0			
Dibromomethane	20.38	0.65	2.2	20	0	102	79-126	0			
Dichlorodifluoromethane	21.76	0.68	2.3	20	0	109	10-180	0			
Diisopropyl ether	20.29	0.41	1.4	20	0	101	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w	Instrument ID VMS12		Method: SW8260C						
Ethylbenzene	19.7	0.34	1.1	20	0	98.5	76-123	0	
Hexachlorobutadiene	21.12	0.56	1.9	20	0	106	70-155	0	
Isopropylbenzene	19.63	0.35	1.2	20	0	98.2	80-127	0	
m,p-Xylene	40.72	0.81	2.7	40	0	102	75-130	0	
Methyl tert-butyl ether	22.81	0.45	1.5	20	0	114	68-129	0	
Methylene chloride	20.13	0.86	2.9	20	0	101	72-125	0	
Naphthalene	17.31	0.77	2.6	20	0	86.6	55-160	0	
n-Butylbenzene	18.78	0.34	1.1	20	0	93.9	75-145	0	
n-Propylbenzene	19.47	0.48	1.6	20	0	97.4	76-116	0	
o-Xylene	19.99	0.31	1.0	20	0	100	76-127	0	
p-Isopropyltoluene	19.68	0.26	0.88	20	0	98.4	61-164	0	
sec-Butylbenzene	19.5	0.3	1.0	20	0	97.5	80-134	0	
Styrene	21.21	0.33	1.1	20	0	106	79-117	0	
tert-Butylbenzene	18.82	0.39	1.3	20	0	94.1	70-130	0	
Tetrachloroethene	20.32	0.39	1.3	20	0	102	68-166	0	
Toluene	20.7	0.45	1.5	20	0	104	76-125	0	
trans-1,2-Dichloroethene	21.01	0.48	1.6	20	0	105	80-140	0	
trans-1,3-Dichloropropene	21.06	0.38	2.7	20	0	105	56-132	0	
Trichloroethene	17.78	0.43	1.4	20	0	88.9	77-125	0	
Trichlorofluoromethane	19.88	0.52	1.7	20	0	99.4	60-140	0	
Vinyl chloride	20.72	0.53	1.8	20	0	104	50-136	0	
Xylenes, Total	60.71	0.81	4.4	60	0	101	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.16	0	0	20	0	95.8	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.44	0	0	20	0	102	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.81	0	0	20	0	104	85-115	0	
<i>Surr: Toluene-d8</i>	19.49	0	0	20	0	97.4	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w Instrument ID VMS12 Method: SW8260C

MS		Sample ID: 21060304-51A MS				Units: µg/L		Analysis Date: 6/14/2021 08:05 PM			
Client ID: TW-1		Run ID: VMS12_210614A				SeqNo: 7486870		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	1786	38	130	2000	0	89.3	73-114	0			
1,1,1-Trichloroethane	1990	46	150	2000	0	99.5	75-130	0			
1,1,2,2-Tetrachloroethane	2057	40	130	2000	0	103	75-130	0			
1,1,2-Trichloroethane	1925	46	150	2000	0	96.2	75-125	0			
1,1-Dichloroethane	2268	44	150	2000	86	109	68-142	0			
1,1-Dichloroethene	2232	40	140	2000	0	112	70-145	0			
1,1-Dichloropropene	1963	37	120	2000	0	98.2	75-135	0			
1,2,3-Trichlorobenzene	1650	42	140	2000	0	82.5	70-140	0			
1,2,3-Trichloropropane	1815	40	130	2000	0	90.8	75-125	0			
1,2,4-Trichlorobenzene	1798	45	150	2000	0	89.9	70-135	0			
1,2,4-Trimethylbenzene	2665	45	150	2000	770	94.8	75-130	0			
1,2-Dibromo-3-chloropropane	1600	43	140	2000	0	80	60-130	0			
1,2-Dibromoethane	1874	41	140	2000	0	93.7	67-155	0			
1,2-Dichlorobenzene	1967	32	110	2000	0	98.4	70-130	0			
1,2-Dichloroethane	2102	44	140	2000	0	105	78-125	0			
1,2-Dichloropropane	1922	48	160	2000	0	96.1	75-125	0			
1,3,5-Trimethylbenzene	2167	65	220	2000	223	97.2	75-130	0			
1,3-Dichlorobenzene	1962	33	110	2000	0	98.1	75-130	0			
1,3-Dichloropropane	1857	40	130	2000	0	92.8	75-125	0			
1,4-Dichlorobenzene	1969	35	120	2000	0	98.4	75-130	0			
2,2-Dichloropropane	2095	52	170	2000	0	105	43-150	0			
2-Butanone	1945	52	170	2000	0	97.2	55-150	0			
2-Chlorotoluene	1900	36	120	2000	0	95	76-117	0			
4-Chlorotoluene	2013	31	100	2000	0	101	80-125	0			
4-Methyl-2-pentanone	2350	52	170	2000	0	118	77-178	0			
Acetone	1683	620	2,100	2000	0	84.2	60-160	0			J
Benzene	2062	46	150	2000	0	103	70-130	0			
Bromobenzene	2009	38	130	2000	0	100	80-125	0			
Bromochloromethane	2223	45	150	2000	0	111	72-141	0			
Bromodichloromethane	2072	49	160	2000	0	104	75-125	0			
Bromoform	1680	56	190	2000	0	84	60-125	0			
Bromomethane	1673	90	300	2000	0	83.6	30-185	0			
Carbon tetrachloride	1984	40	140	2000	0	99.2	65-140	0			
Chlorobenzene	1969	40	130	2000	0	98.4	80-120	0			
Chloroethane	2091	68	230	2000	0	105	31-172	0			
Chloroform	2162	46	150	2000	0	108	66-135	0			
Chloromethane	2073	83	280	2000	0	104	46-148	0			
cis-1,2-Dichloroethene	2148	42	140	2000	96	103	75-134	0			
cis-1,3-Dichloropropene	1986	57	190	2000	0	99.3	70-130	0			
Dibromochloromethane	1745	40	130	2000	0	87.2	60-115	0			
Dibromomethane	1955	65	220	2000	0	97.8	79-126	0			
Dichlorodifluoromethane	2329	68	230	2000	0	116	10-180	0			
Diisopropyl ether	2006	41	140	2000	0	100	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w	Instrument ID VMS12	Method: SW8260C						
Ethylbenzene	2930	34	110	2000	1081	92.4	76-123	0
Hexachlorobutadiene	1833	56	190	2000	0	91.6	70-155	0
Isopropylbenzene	1966	35	120	2000	95	93.6	80-127	0
m,p-Xylene	6693	81	270	4000	2799	97.4	75-130	0
Methyl tert-butyl ether	2161	45	150	2000	0	108	68-129	0
Methylene chloride	1999	86	290	2000	0	100	72-125	0
Naphthalene	1514	77	260	2000	49	73.2	55-160	0
n-Butylbenzene	1785	34	110	2000	0	89.2	75-145	0
n-Propylbenzene	2034	48	160	2000	168	93.3	76-116	0
o-Xylene	2567	31	100	2000	651	95.8	76-127	0
p-Isopropyltoluene	1833	26	88	2000	0	91.6	61-164	0
sec-Butylbenzene	1879	30	100	2000	0	94	80-134	0
Styrene	2046	33	110	2000	0	102	79-117	0
tert-Butylbenzene	1841	39	130	2000	0	92	70-130	0
Tetrachloroethene	2023	39	130	2000	0	101	68-166	0
Toluene	2426	45	150	2000	383	102	76-125	0
trans-1,2-Dichloroethene	2118	48	160	2000	0	106	80-140	0
trans-1,3-Dichloropropene	1878	38	270	2000	0	93.9	56-132	0
Trichloroethene	1844	43	140	2000	0	92.2	77-125	0
Trichlorofluoromethane	2138	52	170	2000	0	107	60-140	0
Vinyl chloride	2280	53	180	2000	139	107	50-136	0
Xylenes, Total	9260	81	440	6000	3450	96.8	76-127	0
<i>Surr: 1,2-Dichloroethane-d4</i>	2002	0	0	2000	0	100	75-120	0
<i>Surr: 4-Bromofluorobenzene</i>	2005	0	0	2000	0	100	80-110	0
<i>Surr: Dibromofluoromethane</i>	2066	0	0	2000	0	103	85-115	0
<i>Surr: Toluene-d8</i>	1941	0	0	2000	0	97	85-110	0

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w Instrument ID VMS12 Method: SW8260C

MSD		Sample ID: 21060304-51A MSD				Units: µg/L			Analysis Date: 6/14/2021 08:30 PM		
Client ID: TW-1		Run ID: VMS12_210614A				SeqNo: 7486871		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	1905	38	130	2000	0	95.2	73-114	1786	6.45	30	
1,1,1-Trichloroethane	2123	46	150	2000	0	106	75-130	1990	6.47	30	
1,1,2,2-Tetrachloroethane	2103	40	130	2000	0	105	75-130	2057	2.21	30	
1,1,2-Trichloroethane	1971	46	150	2000	0	98.6	75-125	1925	2.36	30	
1,1-Dichloroethane	2304	44	150	2000	86	111	68-142	2268	1.57	30	
1,1-Dichloroethene	2225	40	140	2000	0	111	70-145	2232	0.314	30	
1,1-Dichloropropene	2063	37	120	2000	0	103	75-135	1963	4.97	30	
1,2,3-Trichlorobenzene	1771	42	140	2000	0	88.6	70-140	1650	7.07	30	
1,2,3-Trichloropropane	1872	40	130	2000	0	93.6	75-125	1815	3.09	30	
1,2,4-Trichlorobenzene	1788	45	150	2000	0	89.4	70-135	1798	0.558	30	
1,2,4-Trimethylbenzene	2786	45	150	2000	770	101	75-130	2665	4.44	30	
1,2-Dibromo-3-chloropropane	1551	43	140	2000	0	77.6	60-130	1600	3.11	30	
1,2-Dibromoethane	2000	41	140	2000	0	100	67-155	1874	6.5	30	
1,2-Dichlorobenzene	1988	32	110	2000	0	99.4	70-130	1967	1.06	30	
1,2-Dichloroethane	2029	44	140	2000	0	101	78-125	2102	3.53	30	
1,2-Dichloropropane	1998	48	160	2000	0	99.9	75-125	1922	3.88	30	
1,3,5-Trimethylbenzene	2222	65	220	2000	223	100	75-130	2167	2.51	30	
1,3-Dichlorobenzene	2032	33	110	2000	0	102	75-130	1962	3.51	30	
1,3-Dichloropropane	1961	40	130	2000	0	98	75-125	1857	5.45	30	
1,4-Dichlorobenzene	2005	35	120	2000	0	100	75-130	1969	1.81	30	
2,2-Dichloropropane	2148	52	170	2000	0	107	43-150	2095	2.5	30	
2-Butanone	1866	52	170	2000	0	93.3	55-150	1945	4.15	30	
2-Chlorotoluene	2050	36	120	2000	0	102	76-117	1900	7.59	30	
4-Chlorotoluene	2087	31	100	2000	0	104	80-125	2013	3.61	30	
4-Methyl-2-pentanone	2383	52	170	2000	0	119	77-178	2350	1.39	30	
Acetone	1648	620	2,100	2000	0	82.4	60-160	1683	0	30	J
Benzene	2151	46	150	2000	0	108	70-130	2062	4.23	30	
Bromobenzene	2045	38	130	2000	0	102	80-125	2009	1.78	30	
Bromochloromethane	2125	45	150	2000	0	106	72-141	2223	4.51	30	
Bromodichloromethane	2143	49	160	2000	0	107	75-125	2072	3.37	30	
Bromoform	1774	56	190	2000	0	88.7	60-125	1680	5.44	30	
Bromomethane	2098	90	300	2000	0	105	30-185	1673	22.5	30	
Carbon tetrachloride	2142	40	140	2000	0	107	65-140	1984	7.66	30	
Chlorobenzene	2054	40	130	2000	0	103	80-120	1969	4.23	30	
Chloroethane	2205	68	230	2000	0	110	31-172	2091	5.31	30	
Chloroform	2159	46	150	2000	0	108	66-135	2162	0.139	30	
Chloromethane	2123	83	280	2000	0	106	46-148	2073	2.38	30	
cis-1,2-Dichloroethene	2111	42	140	2000	96	101	75-134	2148	1.74	30	
cis-1,3-Dichloropropene	2043	57	190	2000	0	102	70-130	1986	2.83	30	
Dibromochloromethane	1871	40	130	2000	0	93.6	60-115	1745	6.97	30	
Dibromomethane	1935	65	220	2000	0	96.8	79-126	1955	1.03	30	
Dichlorodifluoromethane	2277	68	230	2000	0	114	10-180	2329	2.26	30	
Diisopropyl ether	1987	41	140	2000	0	99.4	58-133	2006	0.952	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319676w	Instrument ID VMS12	Method: SW8260C									
Ethylbenzene	3143	34	110	2000	1081	103	76-123	2930	7.01	30	
Hexachlorobutadiene	1845	56	190	2000	0	92.2	70-155	1833	0.653	30	
Isopropylbenzene	2101	35	120	2000	95	100	80-127	1966	6.64	30	
m,p-Xylene	7088	81	270	4000	2799	107	75-130	6693	5.73	30	
Methyl tert-butyl ether	2160	45	150	2000	0	108	68-129	2161	0.0463	30	
Methylene chloride	1980	86	290	2000	0	99	72-125	1999	0.955	30	
Naphthalene	1614	77	260	2000	49	78.2	55-160	1514	6.39	30	
n-Butylbenzene	1872	34	110	2000	0	93.6	75-145	1785	4.76	30	
n-Propylbenzene	2129	48	160	2000	168	98	76-116	2034	4.56	30	
o-Xylene	2741	31	100	2000	651	104	76-127	2567	6.56	30	
p-Isopropyltoluene	1927	26	88	2000	0	96.4	61-164	1833	5	30	
sec-Butylbenzene	2000	30	100	2000	0	100	80-134	1879	6.24	30	
Styrene	2129	33	110	2000	0	106	79-117	2046	3.98	30	
tert-Butylbenzene	1945	39	130	2000	0	97.2	70-130	1841	5.49	30	
Tetrachloroethene	2149	39	130	2000	0	107	68-166	2023	6.04	30	
Toluene	2494	45	150	2000	383	106	76-125	2426	2.76	30	
trans-1,2-Dichloroethene	2140	48	160	2000	0	107	80-140	2118	1.03	30	
trans-1,3-Dichloropropene	1878	38	270	2000	0	93.9	56-132	1878	0	30	
Trichloroethene	1940	43	140	2000	0	97	77-125	1844	5.07	30	
Trichlorofluoromethane	2167	52	170	2000	0	108	60-140	2138	1.35	30	
Vinyl chloride	2243	53	180	2000	139	105	50-136	2280	1.64	30	
Xylenes, Total	9829	81	440	6000	3450	106	76-127	9260	5.96	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1999	0	0	2000	0	100	75-120	2002	0.15	30	
<i>Surr: 4-Bromofluorobenzene</i>	1990	0	0	2000	0	99.5	80-110	2005	0.751	30	
<i>Surr: Dibromofluoromethane</i>	2058	0	0	2000	0	103	85-115	2066	0.388	30	
<i>Surr: Toluene-d8</i>	1993	0	0	2000	0	99.6	85-110	1941	2.64	30	

The following samples were analyzed in this batch:

21060304-10A	21060304-23A	21060304-28A
21060304-30A	21060304-31A	21060304-32A
21060304-37A	21060304-38A	21060304-39A
21060304-40A	21060304-41A	21060304-42A
21060304-47A	21060304-51A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319776d** Instrument ID **VMS12** Method: **SW8260C**

MBLK		Sample ID: 12V-BLKW2-210614-R319776d			Units: µg/L		Analysis Date: 6/15/2021 12:32 AM				
Client ID:		Run ID: VMS12_210614B			SeqNo: 7487378		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								
Diisopropyl ether	U	0.41	1.4								

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319776d	Instrument ID VMS12	Method: SW8260C						
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	20.8	0	0	20	0	104	75-120	0
<i>Surr: 4-Bromofluorobenzene</i>	19.39	0	0	20	0	97	80-110	0
<i>Surr: Dibromofluoromethane</i>	20.16	0	0	20	0	101	85-115	0
<i>Surr: Toluene-d8</i>	19.6	0	0	20	0	98	85-110	0

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319776d** Instrument ID **VMS12** Method: **SW8260C**

LCS		Sample ID: 12V-LCSW2-210614-R319776d				Units: µg/L		Analysis Date: 6/14/2021 11:19 PM			
Client ID:		Run ID: VMS12_210614B			SeqNo: 7487376		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	18.51	0.38	1.3	20	0	92.6	73-114	0			
1,1,1-Trichloroethane	19.45	0.46	1.5	20	0	97.2	75-130	0			
1,1,2,2-Tetrachloroethane	22.1	0.4	1.3	20	0	110	75-130	0			
1,1,2-Trichloroethane	20.3	0.46	1.5	20	0	102	75-125	0			
1,1-Dichloroethane	20.81	0.44	1.5	20	0	104	68-142	0			
1,1-Dichloroethene	19.75	0.4	1.4	20	0	98.8	70-145	0			
1,1-Dichloropropene	18.28	0.37	1.2	20	0	91.4	75-135	0			
1,2,3-Trichlorobenzene	18.19	0.42	1.4	20	0	91	70-140	0			
1,2,3-Trichloropropane	18.81	0.4	1.3	20	0	94	75-125	0			
1,2,4-Trichlorobenzene	18.44	0.45	1.5	20	0	92.2	70-135	0			
1,2,4-Trimethylbenzene	18.33	0.45	1.5	20	0	91.6	75-130	0			
1,2-Dibromo-3-chloropropane	18.03	0.43	1.4	20	0	90.2	60-130	0			
1,2-Dibromoethane	18.96	0.41	1.4	20	0	94.8	67-155	0			
1,2-Dichlorobenzene	18.96	0.32	1.1	20	0	94.8	70-130	0			
1,2-Dichloroethane	19.8	0.44	1.4	20	0	99	78-125	0			
1,2-Dichloropropane	19.73	0.48	1.6	20	0	98.6	75-125	0			
1,3,5-Trimethylbenzene	19.47	0.65	2.2	20	0	97.4	75-130	0			
1,3-Dichlorobenzene	19.03	0.33	1.1	20	0	95.2	75-130	0			
1,3-Dichloropropane	19.41	0.4	1.3	20	0	97	75-125	0			
1,4-Dichlorobenzene	19.04	0.35	1.2	20	0	95.2	75-130	0			
2,2-Dichloropropane	19.87	0.52	1.7	20	0	99.4	43-150	0			
2-Butanone	19.68	0.52	1.7	20	0	98.4	55-150	0			
2-Chlorotoluene	19.68	0.36	1.2	20	0	98.4	76-117	0			
4-Chlorotoluene	19.99	0.31	1.0	20	0	100	80-125	0			
4-Methyl-2-pentanone	26.32	0.52	1.7	20	0	132	77-178	0			
Acetone	21.54	6.2	21	20	0	108	60-160	0			
Benzene	20.12	0.46	1.5	20	0	101	70-130	0			
Bromobenzene	19.59	0.38	1.3	20	0	98	80-125	0			
Bromochloromethane	21.4	0.45	1.5	20	0	107	72-141	0			
Bromodichloromethane	20.88	0.49	1.6	20	0	104	75-125	0			
Bromoform	19.57	0.56	1.9	20	0	97.8	60-125	0			
Bromomethane	22.55	0.9	3.0	20	0	113	30-185	0			
Carbon tetrachloride	20.66	0.4	1.4	20	0	103	65-140	0			
Chlorobenzene	19.87	0.4	1.3	20	0	99.4	80-120	0			
Chloroethane	19.01	0.68	2.3	20	0	95	31-172	0			
Chloroform	20.64	0.46	1.5	20	0	103	66-135	0			
Chloromethane	18.08	0.83	2.8	20	0	90.4	46-148	0			
cis-1,2-Dichloroethene	19.6	0.42	1.4	20	0	98	75-134	0			
cis-1,3-Dichloropropene	20.22	0.57	1.9	20	0	101	70-130	0			
Dibromochloromethane	19.57	0.4	1.3	20	0	97.8	60-115	0			
Dibromomethane	19.9	0.65	2.2	20	0	99.5	79-126	0			
Dichlorodifluoromethane	16.61	0.68	2.3	20	0	83	10-180	0			
Diisopropyl ether	18.92	0.41	1.4	20	0	94.6	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319776d	Instrument ID VMS12		Method: SW8260C						
Ethylbenzene	19.23	0.34	1.1	20	0	96.2	76-123	0	
Hexachlorobutadiene	19.63	0.56	1.9	20	0	98.2	70-155	0	
Isopropylbenzene	19.23	0.35	1.2	20	0	96.2	80-127	0	
m,p-Xylene	39.66	0.81	2.7	40	0	99.2	75-130	0	
Methyl tert-butyl ether	21.5	0.45	1.5	20	0	108	68-129	0	
Methylene chloride	18.92	0.86	2.9	20	0	94.6	72-125	0	
Naphthalene	16.48	0.77	2.6	20	0	82.4	55-160	0	
n-Butylbenzene	17.15	0.34	1.1	20	0	85.8	75-145	0	
n-Propylbenzene	19.02	0.48	1.6	20	0	95.1	76-116	0	
o-Xylene	19.72	0.31	1.0	20	0	98.6	76-127	0	
p-Isopropyltoluene	17.9	0.26	0.88	20	0	89.5	61-164	0	
sec-Butylbenzene	18.98	0.3	1.0	20	0	94.9	80-134	0	
Styrene	19.96	0.33	1.1	20	0	99.8	79-117	0	
tert-Butylbenzene	18.9	0.39	1.3	20	0	94.5	70-130	0	
Tetrachloroethene	20.89	0.39	1.3	20	0	104	68-166	0	
Toluene	19.97	0.45	1.5	20	0	99.8	76-125	0	
trans-1,2-Dichloroethene	20.48	0.48	1.6	20	0	102	80-140	0	
trans-1,3-Dichloropropene	19.68	0.38	2.7	20	0	98.4	56-132	0	
Trichloroethene	17.46	0.43	1.4	20	0	87.3	77-125	0	
Trichlorofluoromethane	18.38	0.52	1.7	20	0	91.9	60-140	0	
Vinyl chloride	18.47	0.53	1.8	20	0	92.4	50-136	0	
Xylenes, Total	59.38	0.81	4.4	60	0	99	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.5	0	0	20	0	97.5	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.78	0	0	20	0	104	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.79	0	0	20	0	104	85-115	0	
<i>Surr: Toluene-d8</i>	19.76	0	0	20	0	98.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319776d** Instrument ID **VMS12** Method: **SW8260C**

MS		Sample ID: 21060304-53A MS				Units: µg/L		Analysis Date: 6/15/2021 08:33 AM			
Client ID: TS Inf		Run ID: VMS12_210614B				SeqNo: 7487398		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	1835	38	130	2000	0	91.8	73-114	0			
1,1,1-Trichloroethane	2051	46	150	2000	0	103	75-130	0			
1,1,2,2-Tetrachloroethane	2137	40	130	2000	0	107	75-130	0			
1,1,2-Trichloroethane	1873	46	150	2000	0	93.6	75-125	0			
1,1-Dichloroethane	2186	44	150	2000	36	108	68-142	0			
1,1-Dichloroethene	2024	40	140	2000	0	101	70-145	0			
1,1-Dichloropropene	1959	37	120	2000	0	98	75-135	0			
1,2,3-Trichlorobenzene	1635	42	140	2000	0	81.8	70-140	0			
1,2,3-Trichloropropane	1828	40	130	2000	0	91.4	75-125	0			
1,2,4-Trichlorobenzene	1766	45	150	2000	0	88.3	70-135	0			
1,2,4-Trimethylbenzene	1908	45	150	2000	64	92.2	75-130	0			
1,2-Dibromo-3-chloropropane	1661	43	140	2000	0	83	60-130	0			
1,2-Dibromoethane	1898	41	140	2000	0	94.9	67-155	0			
1,2-Dichlorobenzene	1915	32	110	2000	0	95.8	70-130	0			
1,2-Dichloroethane	2024	44	140	2000	0	101	78-125	0			
1,2-Dichloropropane	1987	48	160	2000	0	99.4	75-125	0			
1,3,5-Trimethylbenzene	1938	65	220	2000	0	96.9	75-130	0			
1,3-Dichlorobenzene	1959	33	110	2000	0	98	75-130	0			
1,3-Dichloropropane	1871	40	130	2000	0	93.6	75-125	0			
1,4-Dichlorobenzene	1940	35	120	2000	0	97	75-130	0			
2,2-Dichloropropane	1737	52	170	2000	0	86.8	43-150	0			
2-Butanone	5792	52	170	2000	3808	99.2	55-150	0			
2-Chlorotoluene	1932	36	120	2000	0	96.6	76-117	0			
4-Chlorotoluene	1930	31	100	2000	0	96.5	80-125	0			
4-Methyl-2-pentanone	3278	52	170	2000	0	164	77-178	0			
Acetone	6574	620	2,100	2000	4713	93	60-160	0			
Benzene	2138	46	150	2000	0	107	70-130	0			
Bromobenzene	1986	38	130	2000	0	99.3	80-125	0			
Bromochloromethane	2101	45	150	2000	0	105	72-141	0			
Bromodichloromethane	2168	49	160	2000	0	108	75-125	0			
Bromoform	1779	56	190	2000	0	89	60-125	0			
Bromomethane	1864	90	300	2000	0	93.2	30-185	0			
Carbon tetrachloride	2046	40	140	2000	0	102	65-140	0			
Chlorobenzene	1987	40	130	2000	0	99.4	80-120	0			
Chloroethane	1947	68	230	2000	0	97.4	31-172	0			
Chloroform	2121	46	150	2000	0	106	66-135	0			
Chloromethane	1718	83	280	2000	0	85.9	46-148	0			
cis-1,2-Dichloroethene	1954	42	140	2000	52	95.1	75-134	0			
cis-1,3-Dichloropropene	1910	57	190	2000	0	95.5	70-130	0			
Dibromochloromethane	1759	40	130	2000	0	88	60-115	0			
Dibromomethane	1954	65	220	2000	0	97.7	79-126	0			
Dichlorodifluoromethane	1704	68	230	2000	0	85.2	10-180	0			
Diisopropyl ether	1925	41	140	2000	0	96.2	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319776d	Instrument ID VMS12	Method: SW8260C							
Ethylbenzene	2492	34	110	2000	514	98.9	76-123	0	
Hexachlorobutadiene	1845	56	190	2000	0	92.2	70-155	0	
Isopropylbenzene	1948	35	120	2000	0	97.4	80-127	0	
m,p-Xylene	5977	81	270	4000	1894	102	75-130	0	
Methyl tert-butyl ether	2095	45	150	2000	0	105	68-129	0	
Methylene chloride	1973	86	290	2000	43	96.5	72-125	0	
Naphthalene	1500	77	260	2000	0	75	55-160	0	
n-Butylbenzene	1701	34	110	2000	0	85	75-145	0	
n-Propylbenzene	1860	48	160	2000	0	93	76-116	0	
o-Xylene	2643	31	100	2000	634	100	76-127	0	
p-Isopropyltoluene	1819	26	88	2000	0	91	61-164	0	
sec-Butylbenzene	1890	30	100	2000	0	94.5	80-134	0	
Styrene	2057	33	110	2000	0	103	79-117	0	
tert-Butylbenzene	1920	39	130	2000	0	96	70-130	0	
Tetrachloroethene	2073	39	130	2000	0	104	68-166	0	
Toluene	11160	45	150	2000	9043	106	76-125	0	EO
trans-1,2-Dichloroethene	2024	48	160	2000	0	101	80-140	0	
trans-1,3-Dichloropropene	1765	38	270	2000	0	88.2	56-132	0	
Trichloroethene	1844	43	140	2000	32	90.6	77-125	0	
Trichlorofluoromethane	1830	52	170	2000	0	91.5	60-140	0	
Vinyl chloride	1718	53	180	2000	0	85.9	50-136	0	
Xylenes, Total	8620	81	440	6000	2528	102	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	1997	0	0	2000	0	99.8	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	2006	0	0	2000	0	100	80-110	0	
<i>Surr: Dibromofluoromethane</i>	2030	0	0	2000	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	1962	0	0	2000	0	98.1	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319776d Instrument ID VMS12 Method: SW8260C

MSD					Sample ID: 21060304-53A MSD			Units: µg/L		Analysis Date: 6/15/2021 08:57 AM		
Client ID: TS Inf		Run ID: VMS12_210614B			SeqNo: 7487399		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	1842	38	130	2000	0	92.1	73-114	1835	0.381	30		
1,1,1-Trichloroethane	2004	46	150	2000	0	100	75-130	2051	2.32	30		
1,1,2,2-Tetrachloroethane	2162	40	130	2000	0	108	75-130	2137	1.16	30		
1,1,2-Trichloroethane	1902	46	150	2000	0	95.1	75-125	1873	1.54	30		
1,1-Dichloroethane	2097	44	150	2000	36	103	68-142	2186	4.16	30		
1,1-Dichloroethene	1968	40	140	2000	0	98.4	70-145	2024	2.81	30		
1,1-Dichloropropene	1911	37	120	2000	0	95.6	75-135	1959	2.48	30		
1,2,3-Trichlorobenzene	1597	42	140	2000	0	79.8	70-140	1635	2.35	30		
1,2,3-Trichloropropane	1899	40	130	2000	0	95	75-125	1828	3.81	30		
1,2,4-Trichlorobenzene	1662	45	150	2000	0	83.1	70-135	1766	6.07	30		
1,2,4-Trimethylbenzene	1846	45	150	2000	64	89.1	75-130	1908	3.3	30		
1,2-Dibromo-3-chloropropane	1608	43	140	2000	0	80.4	60-130	1661	3.24	30		
1,2-Dibromoethane	1837	41	140	2000	0	91.8	67-155	1898	3.27	30		
1,2-Dichlorobenzene	1833	32	110	2000	0	91.6	70-130	1915	4.38	30		
1,2-Dichloroethane	1941	44	140	2000	0	97	78-125	2024	4.19	30		
1,2-Dichloropropane	1921	48	160	2000	0	96	75-125	1987	3.38	30		
1,3,5-Trimethylbenzene	1938	65	220	2000	0	96.9	75-130	1938	0	30		
1,3-Dichlorobenzene	1873	33	110	2000	0	93.6	75-130	1959	4.49	30		
1,3-Dichloropropane	1872	40	130	2000	0	93.6	75-125	1871	0.0534	30		
1,4-Dichlorobenzene	1893	35	120	2000	0	94.6	75-130	1940	2.45	30		
2,2-Dichloropropane	1571	52	170	2000	0	78.6	43-150	1737	10	30		
2-Butanone	5755	52	170	2000	3808	97.4	55-150	5792	0.641	30		
2-Chlorotoluene	1935	36	120	2000	0	96.8	76-117	1932	0.155	30		
4-Chlorotoluene	1906	31	100	2000	0	95.3	80-125	1930	1.25	30		
4-Methyl-2-pentanone	3341	52	170	2000	0	167	77-178	3278	1.9	30		
Acetone	6437	620	2,100	2000	4713	86.2	60-160	6574	2.11	30		
Benzene	2060	46	150	2000	0	103	70-130	2138	3.72	30		
Bromobenzene	1948	38	130	2000	0	97.4	80-125	1986	1.93	30		
Bromochloromethane	1940	45	150	2000	0	97	72-141	2101	7.97	30		
Bromodichloromethane	2043	49	160	2000	0	102	75-125	2168	5.94	30		
Bromoform	1718	56	190	2000	0	85.9	60-125	1779	3.49	30		
Bromomethane	1865	90	300	2000	0	93.2	30-185	1864	0.0536	30		
Carbon tetrachloride	2041	40	140	2000	0	102	65-140	2046	0.245	30		
Chlorobenzene	1938	40	130	2000	0	96.9	80-120	1987	2.5	30		
Chloroethane	1714	68	230	2000	0	85.7	31-172	1947	12.7	30		
Chloroform	2022	46	150	2000	0	101	66-135	2121	4.78	30		
Chloromethane	1508	83	280	2000	0	75.4	46-148	1718	13	30		
cis-1,2-Dichloroethene	1888	42	140	2000	52	91.8	75-134	1954	3.44	30		
cis-1,3-Dichloropropene	1805	57	190	2000	0	90.2	70-130	1910	5.65	30		
Dibromochloromethane	1804	40	130	2000	0	90.2	60-115	1759	2.53	30		
Dibromomethane	1875	65	220	2000	0	93.8	79-126	1954	4.13	30		
Dichlorodifluoromethane	1650	68	230	2000	0	82.5	10-180	1704	3.22	30		
Diisopropyl ether	1784	41	140	2000	0	89.2	58-133	1925	7.6	30		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319776d	Instrument ID VMS12			Method: SW8260C						
Ethylbenzene	2422	34	110	2000	514	95.4	76-123	2492	2.85	30
Hexachlorobutadiene	1766	56	190	2000	0	88.3	70-155	1845	4.38	30
Isopropylbenzene	1880	35	120	2000	0	94	80-127	1948	3.55	30
m,p-Xylene	5929	81	270	4000	1894	101	75-130	5977	0.806	30
Methyl tert-butyl ether	1960	45	150	2000	0	98	68-129	2095	6.66	30
Methylene chloride	1794	86	290	2000	43	87.6	72-125	1973	9.5	30
Naphthalene	1529	77	260	2000	0	76.4	55-160	1500	1.91	30
n-Butylbenzene	1634	34	110	2000	0	81.7	75-145	1701	4.02	30
n-Propylbenzene	1853	48	160	2000	0	92.6	76-116	1860	0.377	30
o-Xylene	2603	31	100	2000	634	98.4	76-127	2643	1.52	30
p-Isopropyltoluene	1742	26	88	2000	0	87.1	61-164	1819	4.32	30
sec-Butylbenzene	1826	30	100	2000	0	91.3	80-134	1890	3.44	30
Styrene	1992	33	110	2000	0	99.6	79-117	2057	3.21	30
tert-Butylbenzene	1852	39	130	2000	0	92.6	70-130	1920	3.61	30
Tetrachloroethene	2086	39	130	2000	0	104	68-166	2073	0.625	30
Toluene	11040	45	150	2000	9043	100	76-125	11160	1.04	30 EO
trans-1,2-Dichloroethene	1966	48	160	2000	0	98.3	80-140	2024	2.91	30
trans-1,3-Dichloropropene	1786	38	270	2000	0	89.3	56-132	1765	1.18	30
Trichloroethene	1781	43	140	2000	32	87.4	77-125	1844	3.48	30
Trichlorofluoromethane	1776	52	170	2000	0	88.8	60-140	1830	3	30
Vinyl chloride	1579	53	180	2000	0	79	50-136	1718	8.43	30
Xylenes, Total	8532	81	440	6000	2528	100	76-127	8620	1.03	30
<i>Surr: 1,2-Dichloroethane-d4</i>	2046	0	0	2000	0	102	75-120	1997	2.42	30
<i>Surr: 4-Bromofluorobenzene</i>	2026	0	0	2000	0	101	80-110	2006	0.992	30
<i>Surr: Dibromofluoromethane</i>	2048	0	0	2000	0	102	85-115	2030	0.883	30
<i>Surr: Toluene-d8</i>	2044	0	0	2000	0	102	85-110	1962	4.09	30

The following samples were analyzed in this batch:

21060304-46A	21060304-48A	21060304-49A
21060304-50A	21060304-52A	21060304-53A
21060304-54A	21060304-55A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319869** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: 11V-BLKW2-210615-R319869				Units: µg/L		Analysis Date: 6/15/2021 11:04 PM			
Client ID:		Run ID: VMS11_210615A		SeqNo: 7490611		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								
2-Propanol	35.1	33	110								J
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								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319869	Instrument ID VMS11	Method: SW8260C						
Diisopropyl ether	U	0.41	1.4					
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.11</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.97</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.87</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.97</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319869** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: 11V-LCSW2-210615-R319869				Units: µg/L		Analysis Date: 6/15/2021 09:58 PM			
Client ID:		Run ID: VMS11_210615A			SeqNo: 7490609		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	20.12	0.38	1.3	20	0	101	73-114	0			
1,1,1-Trichloroethane	21.54	0.46	1.5	20	0	108	75-130	0			
1,1,2,2-Tetrachloroethane	21.73	0.4	1.3	20	0	109	75-130	0			
1,1,2-Trichloroethane	21.23	0.46	1.5	20	0	106	75-125	0			
1,1-Dichloroethane	20.38	0.44	1.5	20	0	102	68-142	0			
1,1-Dichloroethene	20.45	0.4	1.4	20	0	102	70-145	0			
1,1-Dichloropropene	18.94	0.37	1.2	20	0	94.7	75-135	0			
1,2,3-Trichlorobenzene	20.48	0.42	1.4	20	0	102	70-140	0			
1,2,3-Trichloropropane	19.87	0.4	1.3	20	0	99.4	75-125	0			
1,2,4-Trichlorobenzene	20.2	0.45	1.5	20	0	101	70-135	0			
1,2,4-Trimethylbenzene	20.99	0.45	1.5	20	0	105	75-130	0			
1,2-Dibromo-3-chloropropane	17.92	0.43	1.4	20	0	89.6	60-130	0			
1,2-Dibromoethane	21.3	0.41	1.4	20	0	106	67-155	0			
1,2-Dichlorobenzene	20.55	0.32	1.1	20	0	103	70-130	0			
1,2-Dichloroethane	19.18	0.44	1.4	20	0	95.9	78-125	0			
1,2-Dichloropropane	20.8	0.48	1.6	20	0	104	75-125	0			
1,3,5-Trimethylbenzene	21.4	0.65	2.2	20	0	107	75-130	0			
1,3-Dichlorobenzene	20.72	0.33	1.1	20	0	104	75-130	0			
1,3-Dichloropropane	21.06	0.4	1.3	20	0	105	75-125	0			
1,4-Dichlorobenzene	20.19	0.35	1.2	20	0	101	75-130	0			
2,2-Dichloropropane	20.09	0.52	1.7	20	0	100	43-150	0			
2-Butanone	20	0.52	1.7	20	0	100	55-150	0			
2-Chlorotoluene	20.17	0.36	1.2	20	0	101	76-117	0			
4-Chlorotoluene	20.45	0.31	1.0	20	0	102	80-125	0			
4-Methyl-2-pentanone	25.31	0.52	1.7	20	0	127	77-178	0			
Acetone	20.66	6.2	21	20	0	103	60-160	0			J
Benzene	20.33	0.46	1.5	20	0	102	70-130	0			
Bromobenzene	21.13	0.38	1.3	20	0	106	80-125	0			
Bromochloromethane	20.53	0.45	1.5	20	0	103	72-141	0			
Bromodichloromethane	21.81	0.49	1.6	20	0	109	75-125	0			
Bromoform	17.12	0.56	1.9	20	0	85.6	60-125	0			
Bromomethane	22.19	0.9	3.0	20	0	111	30-185	0			
Carbon tetrachloride	20.99	0.4	1.4	20	0	105	65-140	0			
Chlorobenzene	20.69	0.4	1.3	20	0	103	80-120	0			
Chloroethane	18.08	0.68	2.3	20	0	90.4	31-172	0			
Chloroform	20.89	0.46	1.5	20	0	104	66-135	0			
Chloromethane	19.27	0.83	2.8	20	0	96.4	46-148	0			
cis-1,2-Dichloroethene	20.78	0.42	1.4	20	0	104	75-134	0			
cis-1,3-Dichloropropene	20.69	0.57	1.9	20	0	103	70-130	0			
Dibromochloromethane	18.67	0.4	1.3	20	0	93.4	60-115	0			
Dibromomethane	20.22	0.65	2.2	20	0	101	79-126	0			
Dichlorodifluoromethane	19.51	0.68	2.3	20	0	97.6	10-180	0			
Diisopropyl ether	19.52	0.41	1.4	20	0	97.6	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319869	Instrument ID VMS11		Method: SW8260C						
Ethylbenzene	21.01	0.34	1.1	20	0	105	76-123	0	
Hexachlorobutadiene	21.7	0.56	1.9	20	0	108	70-155	0	
Isopropylbenzene	21.48	0.35	1.2	20	0	107	80-127	0	
m,p-Xylene	42.94	0.81	2.7	40	0	107	75-130	0	
Methyl tert-butyl ether	21.09	0.45	1.5	20	0	105	68-129	0	
Methylene chloride	21.1	0.86	2.9	20	0	106	72-125	0	
Naphthalene	21.3	0.77	2.6	20	0	106	55-160	0	
n-Butylbenzene	19.78	0.34	1.1	20	0	98.9	75-145	0	
n-Propylbenzene	21.12	0.48	1.6	20	0	106	76-116	0	
o-Xylene	21.52	0.31	1.0	20	0	108	76-127	0	
p-Isopropyltoluene	20.7	0.26	0.88	20	0	104	61-164	0	
sec-Butylbenzene	20.22	0.3	1.0	20	0	101	80-134	0	
Styrene	22.19	0.33	1.1	20	0	111	79-117	0	
tert-Butylbenzene	20.66	0.39	1.3	20	0	103	70-130	0	
Tetrachloroethene	20.66	0.39	1.3	20	0	103	68-166	0	
Toluene	20.41	0.45	1.5	20	0	102	76-125	0	
trans-1,2-Dichloroethene	20.88	0.48	1.6	20	0	104	80-140	0	
trans-1,3-Dichloropropene	19.15	0.38	2.7	20	0	95.8	56-132	0	
Trichloroethene	19.03	0.43	1.4	20	0	95.2	77-125	0	
Trichlorofluoromethane	20.2	0.52	1.7	20	0	101	60-140	0	
Vinyl chloride	19.53	0.53	1.8	20	0	97.6	50-136	0	
Xylenes, Total	64.46	0.81	4.4	60	0	107	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.54	0	0	20	0	97.7	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.97	0	0	20	0	99.8	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.85	0	0	20	0	99.2	85-115	0	
<i>Surr: Toluene-d8</i>	19.65	0	0	20	0	98.2	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319869** Instrument ID **VMS11** Method: **SW8260C**

MS		Sample ID: 21060304-41A MS				Units: µg/L		Analysis Date: 6/16/2021 07:08 AM			
Client ID: SVE-7		Run ID: VMS11_210615A				SeqNo: 7490633		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	1716	38	130	2000	0	85.8	73-114	0			
1,1,1-Trichloroethane	16870	46	150	2000	15200	83.5	75-130	0			EO
1,1,2,2-Tetrachloroethane	1936	40	130	2000	0	96.8	75-130	0			
1,1,2-Trichloroethane	2390	46	150	2000	0	120	75-125	0			
1,1-Dichloroethane	3316	44	150	2000	1258	103	68-142	0			
1,1-Dichloroethene	2187	40	140	2000	181	100	70-145	0			
1,1-Dichloropropene	1890	37	120	2000	0	94.5	75-135	0			
1,2,3-Trichlorobenzene	1888	42	140	2000	0	94.4	70-140	0			
1,2,3-Trichloropropane	1791	40	130	2000	0	89.6	75-125	0			
1,2,4-Trichlorobenzene	1973	45	150	2000	0	98.6	70-135	0			
1,2,4-Trimethylbenzene	1986	45	150	2000	0	99.3	75-130	0			
1,2-Dibromo-3-chloropropane	1462	43	140	2000	0	73.1	60-130	0			
1,2-Dibromoethane	1949	41	140	2000	0	97.4	67-155	0			
1,2-Dichlorobenzene	2080	32	110	2000	138	97.1	70-130	0			
1,2-Dichloroethane	1814	44	140	2000	0	90.7	78-125	0			
1,2-Dichloropropane	2116	48	160	2000	156	98	75-125	0			
1,3,5-Trimethylbenzene	2056	65	220	2000	0	103	75-130	0			
1,3-Dichlorobenzene	1954	33	110	2000	0	97.7	75-130	0			
1,3-Dichloropropane	2008	40	130	2000	0	100	75-125	0			
1,4-Dichlorobenzene	1925	35	120	2000	0	96.2	75-130	0			
2,2-Dichloropropane	1662	52	170	2000	0	83.1	43-150	0			
2-Butanone	2141	52	170	2000	0	107	55-150	0			
2-Chlorotoluene	1915	36	120	2000	0	95.8	76-117	0			
4-Chlorotoluene	1901	31	100	2000	0	95	80-125	0			
4-Methyl-2-pentanone	2294	52	170	2000	0	115	77-178	0			
Acetone	1809	620	2,100	2000	563	62.3	60-160	0			J
Benzene	1956	46	150	2000	0	97.8	70-130	0			
Bromobenzene	1964	38	130	2000	0	98.2	80-125	0			
Bromochloromethane	1896	45	150	2000	0	94.8	72-141	0			
Bromodichloromethane	1885	49	160	2000	0	94.2	75-125	0			
Bromoform	1336	56	190	2000	0	66.8	60-125	0			
Bromomethane	1501	90	300	2000	0	75	30-185	0			
Carbon tetrachloride	1863	40	140	2000	0	93.2	65-140	0			
Chlorobenzene	1942	40	130	2000	0	97.1	80-120	0			
Chloroethane	1985	68	230	2000	71	95.7	31-172	0			
Chloroform	1994	46	150	2000	0	99.7	66-135	0			
Chloromethane	2383	83	280	2000	0	119	46-148	0			
cis-1,2-Dichloroethene	5930	42	140	2000	3823	105	75-134	0			
cis-1,3-Dichloropropene	1867	57	190	2000	0	93.4	70-130	0			
Dibromochloromethane	1479	40	130	2000	0	74	60-115	0			
Dibromomethane	1917	65	220	2000	0	95.8	79-126	0			
Dichlorodifluoromethane	2007	68	230	2000	0	100	10-180	0			
Diisopropyl ether	1841	41	140	2000	0	92	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319869	Instrument ID VMS11	Method: SW8260C							
Ethylbenzene	2056	34	110	2000	0	103	76-123	0	
Hexachlorobutadiene	1930	56	190	2000	0	96.5	70-155	0	
Isopropylbenzene	2085	35	120	2000	0	104	80-127	0	
m,p-Xylene	4248	81	270	4000	183	102	75-130	0	
Methyl tert-butyl ether	2043	45	150	2000	0	102	68-129	0	
Methylene chloride	2528	86	290	2000	485	102	72-125	0	
Naphthalene	2054	77	260	2000	0	103	55-160	0	
n-Butylbenzene	1946	34	110	2000	0	97.3	75-145	0	
n-Propylbenzene	2012	48	160	2000	0	101	76-116	0	
o-Xylene	2444	31	100	2000	383	103	76-127	0	
p-Isopropyltoluene	2015	26	88	2000	0	101	61-164	0	
sec-Butylbenzene	1926	30	100	2000	0	96.3	80-134	0	
Styrene	2046	33	110	2000	0	102	79-117	0	
tert-Butylbenzene	1981	39	130	2000	0	99	70-130	0	
Tetrachloroethene	9250	39	130	2000	7060	110	68-166	0	
Toluene	2088	45	150	2000	137	97.6	76-125	0	
trans-1,2-Dichloroethene	2006	48	160	2000	0	100	80-140	0	
trans-1,3-Dichloropropene	1626	38	270	2000	0	81.3	56-132	0	
Trichloroethene	18360	43	140	2000	16150	110	77-125	0	EO
Trichlorofluoromethane	2008	52	170	2000	0	100	60-140	0	
Vinyl chloride	2469	53	180	2000	309	108	50-136	0	
Xylenes, Total	6692	81	440	6000	566	102	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	1927	0	0	2000	0	96.4	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	2000	0	0	2000	0	100	80-110	0	
<i>Surr: Dibromofluoromethane</i>	1922	0	0	2000	0	96.1	85-115	0	
<i>Surr: Toluene-d8</i>	1935	0	0	2000	0	96.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319869** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 21060304-41A MSD				Units: µg/L		Analysis Date: 6/16/2021 07:31 AM			
Client ID: SVE-7		Run ID: VMS11_210615A				SeqNo: 7490634		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	1796	38	130	2000	0	89.8	73-114	1716	4.56	30	
1,1,1-Trichloroethane	17110	46	150	2000	15200	95.6	75-130	16870	1.42	30	EO
1,1,2,2-Tetrachloroethane	2134	40	130	2000	0	107	75-130	1936	9.73	30	
1,1,2-Trichloroethane	2454	46	150	2000	0	123	75-125	2390	2.64	30	
1,1-Dichloroethane	3381	44	150	2000	1258	106	68-142	3316	1.94	30	
1,1-Dichloroethene	2308	40	140	2000	181	106	70-145	2187	5.38	30	
1,1-Dichloropropene	2000	37	120	2000	0	100	75-135	1890	5.66	30	
1,2,3-Trichlorobenzene	1995	42	140	2000	0	99.8	70-140	1888	5.51	30	
1,2,3-Trichloropropane	1907	40	130	2000	0	95.4	75-125	1791	6.27	30	
1,2,4-Trichlorobenzene	1967	45	150	2000	0	98.4	70-135	1973	0.305	30	
1,2,4-Trimethylbenzene	2090	45	150	2000	0	104	75-130	1986	5.1	30	
1,2-Dibromo-3-chloropropane	1597	43	140	2000	0	79.8	60-130	1462	8.83	30	
1,2-Dibromoethane	1992	41	140	2000	0	99.6	67-155	1949	2.18	30	
1,2-Dichlorobenzene	2174	32	110	2000	138	102	70-130	2080	4.42	30	
1,2-Dichloroethane	1904	44	140	2000	0	95.2	78-125	1814	4.84	30	
1,2-Dichloropropane	2158	48	160	2000	156	100	75-125	2116	1.97	30	
1,3,5-Trimethylbenzene	2140	65	220	2000	0	107	75-130	2056	4	30	
1,3-Dichlorobenzene	2004	33	110	2000	0	100	75-130	1954	2.53	30	
1,3-Dichloropropane	2049	40	130	2000	0	102	75-125	2008	2.02	30	
1,4-Dichlorobenzene	2016	35	120	2000	0	101	75-130	1925	4.62	30	
2,2-Dichloropropane	1722	52	170	2000	0	86.1	43-150	1662	3.55	30	
2-Butanone	2155	52	170	2000	0	108	55-150	2141	0.652	30	
2-Chlorotoluene	2020	36	120	2000	0	101	76-117	1915	5.34	30	
4-Chlorotoluene	2000	31	100	2000	0	100	80-125	1901	5.08	30	
4-Methyl-2-pentanone	2385	52	170	2000	0	119	77-178	2294	3.89	30	
Acetone	1809	620	2,100	2000	563	62.3	60-160	1809	0	30	J
Benzene	2055	46	150	2000	0	103	70-130	1956	4.94	30	
Bromobenzene	2035	38	130	2000	0	102	80-125	1964	3.55	30	
Bromochloromethane	1945	45	150	2000	0	97.2	72-141	1896	2.55	30	
Bromodichloromethane	2011	49	160	2000	0	101	75-125	1885	6.47	30	
Bromoform	1408	56	190	2000	0	70.4	60-125	1336	5.25	30	
Bromomethane	1555	90	300	2000	0	77.8	30-185	1501	3.53	30	
Carbon tetrachloride	1923	40	140	2000	0	96.2	65-140	1863	3.17	30	
Chlorobenzene	2027	40	130	2000	0	101	80-120	1942	4.28	30	
Chloroethane	1976	68	230	2000	71	95.2	31-172	1985	0.454	30	
Chloroform	2040	46	150	2000	0	102	66-135	1994	2.28	30	
Chloromethane	2032	83	280	2000	0	102	46-148	2383	15.9	30	
cis-1,2-Dichloroethene	6064	42	140	2000	3823	112	75-134	5930	2.23	30	
cis-1,3-Dichloropropene	1948	57	190	2000	0	97.4	70-130	1867	4.25	30	
Dibromochloromethane	1582	40	130	2000	0	79.1	60-115	1479	6.73	30	
Dibromomethane	1962	65	220	2000	0	98.1	79-126	1917	2.32	30	
Dichlorodifluoromethane	2104	68	230	2000	0	105	10-180	2007	4.72	30	
Diisopropyl ether	1919	41	140	2000	0	96	58-133	1841	4.15	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319869	Instrument ID VMS11		Method: SW8260C							
Ethylbenzene	2145	34	110	2000	0	107	76-123	2056	4.24	30
Hexachlorobutadiene	1946	56	190	2000	0	97.3	70-155	1930	0.826	30
Isopropylbenzene	2170	35	120	2000	0	108	80-127	2085	4	30
m,p-Xylene	4448	81	270	4000	183	107	75-130	4248	4.6	30
Methyl tert-butyl ether	2067	45	150	2000	0	103	68-129	2043	1.17	30
Methylene chloride	2585	86	290	2000	485	105	72-125	2528	2.23	30
Naphthalene	2140	77	260	2000	0	107	55-160	2054	4.1	30
n-Butylbenzene	1920	34	110	2000	0	96	75-145	1946	1.35	30
n-Propylbenzene	2100	48	160	2000	0	105	76-116	2012	4.28	30
o-Xylene	2537	31	100	2000	383	108	76-127	2444	3.73	30
p-Isopropyltoluene	2029	26	88	2000	0	101	61-164	2015	0.692	30
sec-Butylbenzene	2006	30	100	2000	0	100	80-134	1926	4.07	30
Styrene	2164	33	110	2000	0	108	79-117	2046	5.61	30
tert-Butylbenzene	2091	39	130	2000	0	105	70-130	1981	5.4	30
Tetrachloroethene	9312	39	130	2000	7060	113	68-166	9250	0.668	30
Toluene	2180	45	150	2000	137	102	76-125	2088	4.31	30
trans-1,2-Dichloroethene	2117	48	160	2000	0	106	80-140	2006	5.38	30
trans-1,3-Dichloropropene	1726	38	270	2000	0	86.3	56-132	1626	5.97	30
Trichloroethene	18400	43	140	2000	16150	112	77-125	18360	0.218	30 EO
Trichlorofluoromethane	2040	52	170	2000	0	102	60-140	2008	1.58	30
Vinyl chloride	2404	53	180	2000	309	105	50-136	2469	2.67	30
Xylenes, Total	6985	81	440	6000	566	107	76-127	6692	4.28	30
<i>Surr: 1,2-Dichloroethane-d4</i>	1926	0	0	2000	0	96.3	75-120	1927	0.0519	30
<i>Surr: 4-Bromofluorobenzene</i>	2010	0	0	2000	0	100	80-110	2000	0.499	30
<i>Surr: Dibromofluoromethane</i>	1922	0	0	2000	0	96.1	85-115	1922	0	30
<i>Surr: Toluene-d8</i>	1993	0	0	2000	0	99.6	85-110	1935	2.95	30

The following samples were analyzed in this batch:

21060304-10A	21060304-28A	21060304-32A
21060304-33A	21060304-37A	21060304-38A
21060304-39A	21060304-40A	21060304-41A
21060304-42A	21060304-46A	21060304-47A
21060304-48A	21060304-49A	21060304-51A
21060304-52A	21060304-55A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319874** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: 9V-BLKW2-210615-R319874				Units: µg/L		Analysis Date: 6/15/2021 07:19 PM			
Client ID:		Run ID: VMS9_210615A				SeqNo: 7490779		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								
<i>Surr: Toluene-d8</i>	5	0	0	5	0	100	74-124	0			

LCS		Sample ID: 9V-LCSW1-210615-R319874				Units: µg/L		Analysis Date: 6/15/2021 06:32 PM			
Client ID:		Run ID: VMS9_210615A				SeqNo: 7490777		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	36.99	0.44	1.0	40	0	92.5	70-130	0			
<i>Surr: Toluene-d8</i>	4.98	0	0	5	0	99.6	74-124	0			

MS		Sample ID: 21060304-31E MS				Units: µg/L		Analysis Date: 6/15/2021 10:10 PM			
Client ID: W-33		Run ID: VMS9_210615A				SeqNo: 7490790		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	562.1	4.4	10	400	175.1	96.8	70-130	0			
<i>Surr: Toluene-d8</i>	49.1	0	0	50	0	98.2	74-124	0			

MSD		Sample ID: 21060304-31E MSD				Units: µg/L		Analysis Date: 6/15/2021 10:26 PM			
Client ID: W-33		Run ID: VMS9_210615A				SeqNo: 7490791		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	542.4	4.4	10	400	175.1	91.8	70-130	562.1	3.57	30	
<i>Surr: Toluene-d8</i>	46.5	0	0	50	0	93	74-124	49.1	5.44	30	

The following samples were analyzed in this batch:

21060304-30E	21060304-31E	21060304-32E
21060304-33E	21060304-41E	21060304-53A

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319877b** Instrument ID **VMS8** Method: **SW8260C**

MBLK		Sample ID: 8V-BLKW1-210615-R319877b				Units: µg/L		Analysis Date: 6/15/2021 08:51 PM			
Client ID:		Run ID: VMS8_210615B		SeqNo: 7490903		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-Trichloroethane	U	0.46	1.5								
Acetone	U	6.2	21								
Ethylbenzene	U	0.34	1.1								
m,p-Xylene	U	0.81	2.7								
o-Xylene	U	0.31	1.0								
Tetrachloroethene	U	0.39	1.3								
Trichloroethene	U	0.43	1.4								
Xylenes, Total	U	0.81	4.4								
<i>Surr: 1,2-Dichloroethane-d4</i>	20.83	0	0	20	0	104	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.17	0	0	20	0	101	80-110	0			
<i>Surr: Dibromofluoromethane</i>	20.42	0	0	20	0	102	85-115	0			
<i>Surr: Toluene-d8</i>	20.11	0	0	20	0	101	85-110	0			

LCS		Sample ID: 8V-LCSW1-210615-R319877b				Units: µg/L		Analysis Date: 6/15/2021 08:02 PM			
Client ID:		Run ID: VMS8_210615B		SeqNo: 7490901		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-Trichloroethane	19.62	0.46	1.5	20	0	98.1	75-130	0			
Acetone	20.61	6.2	21	20	0	103	60-160	0			J
Ethylbenzene	19.44	0.34	1.1	20	0	97.2	76-123	0			
m,p-Xylene	39.15	0.81	2.7	40	0	97.9	75-130	0			
o-Xylene	19.55	0.31	1.0	20	0	97.8	76-127	0			
Tetrachloroethene	21.14	0.39	1.3	20	0	106	68-166	0			
Trichloroethene	17.46	0.43	1.4	20	0	87.3	77-125	0			
Xylenes, Total	58.7	0.81	4.4	60	0	97.8	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	20.34	0	0	20	0	102	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.08	0	0	20	0	100	80-110	0			
<i>Surr: Dibromofluoromethane</i>	20.03	0	0	20	0	100	85-115	0			
<i>Surr: Toluene-d8</i>	20.23	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: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319877b** Instrument ID **VMS8** Method: **SW8260C**

MS		Sample ID: 21060304-55A MS				Units: µg/L		Analysis Date: 6/16/2021 03:23 AM			
Client ID: SVE-4		Run ID: VMS8_210615B				SeqNo: 7490938		Prep Date:		DF: 200	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	8494	92	300	4000	4818	91.9	75-130	0			
Acetone	2934	1200	4,100	4000	48	72.2	60-160	0			J
Ethylbenzene	4088	68	220	4000	0	102	76-123	0			
m,p-Xylene	8192	160	540	8000	0	102	75-130	0			
o-Xylene	4000	62	210	4000	0	100	76-127	0			
Tetrachloroethene	15510	78	260	4000	11380	103	68-166	0			
Trichloroethene	12020	86	290	4000	8766	81.4	77-125	0			
Xylenes, Total	12190	160	890	12000	0	102	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	3950	0	0	4000	0	98.8	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	4076	0	0	4000	0	102	80-110	0			
<i>Surr: Dibromofluoromethane</i>	3838	0	0	4000	0	96	85-115	0			
<i>Surr: Toluene-d8</i>	4070	0	0	4000	0	102	85-110	0			

MSD		Sample ID: 21060304-55A MSD				Units: µg/L		Analysis Date: 6/16/2021 03:39 AM			
Client ID: SVE-4		Run ID: VMS8_210615B				SeqNo: 7490939		Prep Date:		DF: 200	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	8846	92	300	4000	4818	101	75-130	8494	4.06	30	
Acetone	2898	1200	4,100	4000	48	71.2	60-160	2934	0	30	J
Ethylbenzene	4076	68	220	4000	0	102	76-123	4088	0.294	30	
m,p-Xylene	7970	160	540	8000	0	99.6	75-130	8192	2.75	30	
o-Xylene	3998	62	210	4000	0	100	76-127	4000	0.05	30	
Tetrachloroethene	15370	78	260	4000	11380	100	68-166	15510	0.894	30	
Trichloroethene	12380	86	290	4000	8766	90.4	77-125	12020	2.95	30	
Xylenes, Total	11970	160	890	12000	0	99.7	76-127	12190	1.85	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	4020	0	0	4000	0	100	75-120	3950	1.76	30	
<i>Surr: 4-Bromofluorobenzene</i>	4052	0	0	4000	0	101	80-110	4076	0.591	30	
<i>Surr: Dibromofluoromethane</i>	3876	0	0	4000	0	96.9	85-115	3838	0.985	30	
<i>Surr: Toluene-d8</i>	4032	0	0	4000	0	101	85-110	4070	0.938	30	

The following samples were analyzed in this batch:

21060304-32A	21060304-47A	21060304-49A
21060304-55A		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319895a** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: 11V-BLKW1-210616-R319895a			Units: µg/L		Analysis Date: 6/16/2021 12:46 PM				
Client ID:		Run ID: VMS11_210616A			SeqNo: 7494517		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								
2-Propanol	77.47	33	110								J
4-Chlorotoluene	U	0.31	1.0								
4-Methyl-2-pentanone	U	0.52	1.7								
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								
Diisopropyl ether	U	0.41	1.4								

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319895a	Instrument ID VMS11	Method: SW8260C							
Ethylbenzene	U	0.34	1.1						
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						
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						
<i>Surr: 1,2-Dichloroethane-d4</i>	20.32	0	0	20	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.9	0	0	20	0	99.5	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.03	0	0	20	0	100	85-115	0	
<i>Surr: Toluene-d8</i>	19.57	0	0	20	0	97.8	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319895a** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: 11V-LCSW1-210615-R319895a				Units: µg/L		Analysis Date: 6/16/2021 11:40 AM			
Client ID:		Run ID: VMS11_210616A			SeqNo: 7494515		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	17.45	0.38	1.3	20	0	87.2	73-114	0			
1,1,1-Trichloroethane	19.49	0.46	1.5	20	0	97.4	75-130	0			
1,1,2,2-Tetrachloroethane	19.53	0.4	1.3	20	0	97.6	75-130	0			
1,1,2-Trichloroethane	19.21	0.46	1.5	20	0	96	75-125	0			
1,1-Dichloroethane	18.48	0.44	1.5	20	0	92.4	68-142	0			
1,1-Dichloroethene	18.21	0.4	1.4	20	0	91	70-145	0			
1,1-Dichloropropene	18.17	0.37	1.2	20	0	90.8	75-135	0			
1,2,3-Trichlorobenzene	18.72	0.42	1.4	20	0	93.6	70-140	0			
1,2,3-Trichloropropane	17.64	0.4	1.3	20	0	88.2	75-125	0			
1,2,4-Trichlorobenzene	19.71	0.45	1.5	20	0	98.6	70-135	0			
1,2,4-Trimethylbenzene	18.37	0.45	1.5	20	0	91.8	75-130	0			
1,2-Dibromo-3-chloropropane	14.91	0.43	1.4	20	0	74.6	60-130	0			
1,2-Dibromoethane	19.27	0.41	1.4	20	0	96.4	67-155	0			
1,2-Dichlorobenzene	18.59	0.32	1.1	20	0	93	70-130	0			
1,2-Dichloroethane	17.02	0.44	1.4	20	0	85.1	78-125	0			
1,2-Dichloropropane	18.8	0.48	1.6	20	0	94	75-125	0			
1,3,5-Trimethylbenzene	19.42	0.65	2.2	20	0	97.1	75-130	0			
1,3-Dichlorobenzene	18.32	0.33	1.1	20	0	91.6	75-130	0			
1,3-Dichloropropane	19.26	0.4	1.3	20	0	96.3	75-125	0			
1,4-Dichlorobenzene	17.82	0.35	1.2	20	0	89.1	75-130	0			
2,2-Dichloropropane	19.79	0.52	1.7	20	0	99	43-150	0			
2-Butanone	16.7	0.52	1.7	20	0	83.5	55-150	0			
2-Chlorotoluene	17.71	0.36	1.2	20	0	88.6	76-117	0			
4-Chlorotoluene	17.87	0.31	1.0	20	0	89.4	80-125	0			
4-Methyl-2-pentanone	21.96	0.52	1.7	20	0	110	77-178	0			
Benzene	18.83	0.46	1.5	20	0	94.2	70-130	0			
Bromobenzene	18.11	0.38	1.3	20	0	90.6	80-125	0			
Bromochloromethane	17.81	0.45	1.5	20	0	89	72-141	0			
Bromodichloromethane	18.81	0.49	1.6	20	0	94	75-125	0			
Bromoform	14.89	0.56	1.9	20	0	74.4	60-125	0			
Bromomethane	17.31	0.9	3.0	20	0	86.6	30-185	0			
Carbon tetrachloride	19.09	0.4	1.4	20	0	95.4	65-140	0			
Chlorobenzene	18.3	0.4	1.3	20	0	91.5	80-120	0			
Chloroethane	17.18	0.68	2.3	20	0	85.9	31-172	0			
Chloroform	18.22	0.46	1.5	20	0	91.1	66-135	0			
Chloromethane	18.11	0.83	2.8	20	0	90.6	46-148	0			
cis-1,2-Dichloroethene	19.05	0.42	1.4	20	0	95.2	75-134	0			
cis-1,3-Dichloropropene	18.59	0.57	1.9	20	0	93	70-130	0			
Dibromochloromethane	16.19	0.4	1.3	20	0	81	60-115	0			
Dibromomethane	18.86	0.65	2.2	20	0	94.3	79-126	0			
Dichlorodifluoromethane	17.33	0.68	2.3	20	0	86.6	10-180	0			
Diisopropyl ether	16.65	0.41	1.4	20	0	83.2	58-133	0			
Ethylbenzene	19.13	0.34	1.1	20	0	95.6	76-123	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319895a	Instrument ID VMS11		Method: SW8260C						
Hexachlorobutadiene	22.59	0.56	1.9	20	0	113	70-155	0	
Isopropylbenzene	19.24	0.35	1.2	20	0	96.2	80-127	0	
m,p-Xylene	38.47	0.81	2.7	40	0	96.2	75-130	0	
Methyl tert-butyl ether	18.47	0.45	1.5	20	0	92.4	68-129	0	
Methylene chloride	17.96	0.86	2.9	20	0	89.8	72-125	0	
Naphthalene	18.28	0.77	2.6	20	0	91.4	55-160	0	
n-Butylbenzene	19.11	0.34	1.1	20	0	95.6	75-145	0	
n-Propylbenzene	18.63	0.48	1.6	20	0	93.2	76-116	0	
o-Xylene	19.31	0.31	1.0	20	0	96.6	76-127	0	
p-Isopropyltoluene	19.38	0.26	0.88	20	0	96.9	61-164	0	
sec-Butylbenzene	18.62	0.3	1.0	20	0	93.1	80-134	0	
Styrene	19.47	0.33	1.1	20	0	97.4	79-117	0	
tert-Butylbenzene	18.74	0.39	1.3	20	0	93.7	70-130	0	
Tetrachloroethene	19.35	0.39	1.3	20	0	96.8	68-166	0	
trans-1,2-Dichloroethene	19.04	0.48	1.6	20	0	95.2	80-140	0	
trans-1,3-Dichloropropene	17.44	0.38	2.7	20	0	87.2	56-132	0	
Trichloroethene	18.53	0.43	1.4	20	0	92.6	77-125	0	
Trichlorofluoromethane	17.51	0.52	1.7	20	0	87.6	60-140	0	
Vinyl chloride	17.76	0.53	1.8	20	0	88.8	50-136	0	
Xylenes, Total	57.78	0.81	4.4	60	0	96.3	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.36	0	0	20	0	96.8	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20	0	0	20	0	100	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.33	0	0	20	0	96.6	85-115	0	
<i>Surr: Toluene-d8</i>	20.1	0	0	20	0	100	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319895a Instrument ID VMS11 Method: SW8260C

MS		Sample ID: 21060304-53A MS				Units: µg/L			Analysis Date: 6/16/2021 08:09 PM		
Client ID: TS Inf		Run ID: VMS11_210616A				SeqNo: 7494537		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	719	19	64	1000	0	71.9	73-114	0			S
1,1,1-Trichloroethane	874.5	23	76	1000	27	84.8	75-130	0			
1,1,2,2-Tetrachloroethane	810	20	67	1000	0	81	75-130	0			
1,1,2-Trichloroethane	851	23	77	1000	0	85.1	75-125	0			
1,1-Dichloroethane	919.5	22	74	1000	37	88.2	68-142	0			
1,1-Dichloroethene	870	20	68	1000	0	87	70-145	0			
1,1-Dichloropropene	816	18	62	1000	0	81.6	75-135	0			
1,2,3-Trichlorobenzene	631	21	70	1000	0	63.1	70-140	0			S
1,2,3-Trichloropropane	727.5	20	66	1000	0	72.8	75-125	0			S
1,2,4-Trichlorobenzene	717	22	76	1000	0	71.7	70-135	0			
1,2,4-Trimethylbenzene	884	22	75	1000	58	82.6	75-130	0			
1,2-Dibromo-3-chloropropane	574.5	22	72	1000	0	57.4	60-130	0			S
1,2-Dibromoethane	825.5	20	68	1000	0	82.6	67-155	0			
1,2-Dichlorobenzene	788	16	54	1000	0	78.8	70-130	0			
1,2-Dichloroethane	788.5	22	72	1000	0	78.8	78-125	0			
1,2-Dichloropropane	833.5	24	80	1000	0	83.4	75-125	0			
1,3,5-Trimethylbenzene	868	32	110	1000	17.5	85	75-130	0			
1,3-Dichlorobenzene	810.5	16	54	1000	0	81	75-130	0			
1,3-Dichloropropane	848.5	20	66	1000	0	84.8	75-125	0			
1,4-Dichlorobenzene	782	18	58	1000	0	78.2	75-130	0			
2,2-Dichloropropane	823.5	26	86	1000	0	82.4	43-150	0			
2-Butanone	4673	26	86	1000	4848	-17.6	55-150	0			SO
2-Chlorotoluene	822	18	60	1000	0	82.2	76-117	0			
4-Chlorotoluene	803.5	16	51	1000	0	80.4	80-125	0			
4-Methyl-2-pentanone	1820	26	86	1000	780.5	104	77-178	0			
Benzene	871	23	76	1000	19.5	85.2	70-130	0			
Bromobenzene	810.5	19	63	1000	0	81	80-125	0			
Bromochloromethane	854	22	74	1000	0	85.4	72-141	0			
Bromodichloromethane	803	24	82	1000	0	80.3	75-125	0			
Bromoform	567	28	94	1000	0	56.7	60-125	0			S
Bromomethane	693	45	150	1000	16.5	67.6	30-185	0			
Carbon tetrachloride	771	20	68	1000	0	77.1	65-140	0			
Chlorobenzene	833.5	20	67	1000	0	83.4	80-120	0			
Chloroethane	935	34	110	1000	106.5	82.8	31-172	0			
Chloroform	860.5	23	76	1000	0	86	66-135	0			
Chloromethane	845.5	42	140	1000	0	84.6	46-148	0			
cis-1,2-Dichloroethene	929.5	21	69	1000	53	87.6	75-134	0			
cis-1,3-Dichloropropene	800	28	96	1000	0	80	70-130	0			
Dibromochloromethane	622.5	20	66	1000	0	62.2	60-115	0			
Dibromomethane	823	32	110	1000	0	82.3	79-126	0			
Dichlorodifluoromethane	845.5	34	110	1000	0	84.6	10-180	0			
Diisopropyl ether	804.5	20	68	1000	0	80.4	58-133	0			
Ethylbenzene	1431	17	56	1000	566	86.5	76-123	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319895a	Instrument ID VMS11			Method: SW8260C					
Hexachlorobutadiene	849	28	94	1000	0	84.9	70-155	0	
Isopropylbenzene	874	18	58	1000	0	87.4	80-127	0	
m,p-Xylene	3995	40	140	2000	2140	92.8	75-130	0	
Methyl tert-butyl ether	856	22	76	1000	14	84.2	68-129	0	
Methylene chloride	912	43	140	1000	17	89.5	72-125	0	
Naphthalene	669	38	130	1000	0	66.9	55-160	0	
n-Butylbenzene	823.5	17	56	1000	0	82.4	75-145	0	
n-Propylbenzene	852	24	80	1000	0	85.2	76-116	0	
o-Xylene	1600	16	52	1000	686	91.4	76-127	0	
p-Isopropyltoluene	840	13	44	1000	0	84	61-164	0	
sec-Butylbenzene	807.5	15	50	1000	0	80.8	80-134	0	
Styrene	890.5	16	56	1000	0	89	79-117	0	
tert-Butylbenzene	825	20	66	1000	0	82.5	70-130	0	
Tetrachloroethene	854	20	66	1000	0	85.4	68-166	0	
trans-1,2-Dichloroethene	906.5	24	80	1000	0	90.6	80-140	0	
trans-1,3-Dichloropropene	716	19	140	1000	0	71.6	56-132	0	
Trichloroethene	824.5	22	72	1000	13.5	81.1	77-125	0	
Trichlorofluoromethane	841.5	26	86	1000	0	84.2	60-140	0	
Vinyl chloride	870	26	88	1000	18	85.2	50-136	0	
Xylenes, Total	5596	40	220	3000	2826	92.3	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	1002	0	0	1000	0	100	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	1003	0	0	1000	0	100	80-110	0	
<i>Surr: Dibromofluoromethane</i>	950.5	0	0	1000	0	95	85-115	0	
<i>Surr: Toluene-d8</i>	980	0	0	1000	0	98	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319895a** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 21060304-53A MSD				Units: µg/L			Analysis Date: 6/16/2021 08:31 PM		
Client ID: TS Inf		Run ID: VMS11_210616A				SeqNo: 7494538		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	896.5	19	64	1000	0	89.6	73-114	719	22	30	
1,1,1-Trichloroethane	1057	23	76	1000	27	103	75-130	874.5	18.9	30	
1,1,2,2-Tetrachloroethane	1018	20	67	1000	0	102	75-130	810	22.8	30	
1,1,2-Trichloroethane	1021	23	77	1000	0	102	75-125	851	18.2	30	
1,1-Dichloroethane	1087	22	74	1000	37	105	68-142	919.5	16.7	30	
1,1-Dichloroethene	1062	20	68	1000	0	106	70-145	870	19.9	30	
1,1-Dichloropropene	994.5	18	62	1000	0	99.4	75-135	816	19.7	30	
1,2,3-Trichlorobenzene	745.5	21	70	1000	0	74.6	70-140	631	16.6	30	
1,2,3-Trichloropropane	932	20	66	1000	0	93.2	75-125	727.5	24.6	30	
1,2,4-Trichlorobenzene	897.5	22	76	1000	0	89.8	70-135	717	22.4	30	
1,2,4-Trimethylbenzene	1106	22	75	1000	58	105	75-130	884	22.3	30	
1,2-Dibromo-3-chloropropane	680	22	72	1000	0	68	60-130	574.5	16.8	30	
1,2-Dibromoethane	1014	20	68	1000	0	101	67-155	825.5	20.5	30	
1,2-Dichlorobenzene	986.5	16	54	1000	0	98.6	70-130	788	22.4	30	
1,2-Dichloroethane	944.5	22	72	1000	0	94.4	78-125	788.5	18	30	
1,2-Dichloropropane	1010	24	80	1000	0	101	75-125	833.5	19.1	30	
1,3,5-Trimethylbenzene	1100	32	110	1000	17.5	108	75-130	868	23.5	30	
1,3-Dichlorobenzene	963	16	54	1000	0	96.3	75-130	810.5	17.2	30	
1,3-Dichloropropane	1018	20	66	1000	0	102	75-125	848.5	18.2	30	
1,4-Dichlorobenzene	961.5	18	58	1000	0	96.2	75-130	782	20.6	30	
2,2-Dichloropropane	997	26	86	1000	0	99.7	43-150	823.5	19.1	30	
2-Butanone	4820	26	86	1000	4848	-2.9	55-150	4673	3.09	30	SO
2-Chlorotoluene	1028	18	60	1000	0	103	76-117	822	22.3	30	
4-Chlorotoluene	1013	16	51	1000	0	101	80-125	803.5	23.1	30	
4-Methyl-2-pentanone	1994	26	86	1000	780.5	121	77-178	1820	9.13	30	
Benzene	1038	23	76	1000	19.5	102	70-130	871	17.5	30	
Bromobenzene	1016	19	63	1000	0	102	80-125	810.5	22.6	30	
Bromochloromethane	1024	22	74	1000	0	102	72-141	854	18.1	30	
Bromodichloromethane	977	24	82	1000	0	97.7	75-125	803	19.6	30	
Bromoform	710.5	28	94	1000	0	71	60-125	567	22.5	30	
Bromomethane	958.5	45	150	1000	16.5	94.2	30-185	693	32.2	30	R
Carbon tetrachloride	990.5	20	68	1000	0	99	65-140	771	24.9	30	
Chlorobenzene	1017	20	67	1000	0	102	80-120	833.5	19.8	30	
Chloroethane	1088	34	110	1000	106.5	98.2	31-172	935	15.2	30	
Chloroform	1020	23	76	1000	0	102	66-135	860.5	17	30	
Chloromethane	965	42	140	1000	0	96.5	46-148	845.5	13.2	30	
cis-1,2-Dichloroethene	1087	21	69	1000	53	103	75-134	929.5	15.6	30	
cis-1,3-Dichloropropene	975	28	96	1000	0	97.5	70-130	800	19.7	30	
Dibromochloromethane	765.5	20	66	1000	0	76.6	60-115	622.5	20.6	30	
Dibromomethane	985.5	32	110	1000	0	98.6	79-126	823	18	30	
Dichlorodifluoromethane	1015	34	110	1000	0	102	10-180	845.5	18.2	30	
Diisopropyl ether	974	20	68	1000	0	97.4	58-133	804.5	19.1	30	
Ethylbenzene	1606	17	56	1000	566	104	76-123	1431	11.6	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R319895a	Instrument ID VMS11			Method: SW8260C							
Hexachlorobutadiene	914.5	28	94	1000	0	91.4	70-155	849	7.43	30	
Isopropylbenzene	1084	18	58	1000	0	108	80-127	874	21.4	30	
m,p-Xylene	4308	40	140	2000	2140	108	75-130	3995	7.55	30	
Methyl tert-butyl ether	1046	22	76	1000	14	103	68-129	856	20	30	
Methylene chloride	1053	43	140	1000	17	104	72-125	912	14.4	30	
Naphthalene	823.5	38	130	1000	0	82.4	55-160	669	20.7	30	
n-Butylbenzene	976.5	17	56	1000	0	97.6	75-145	823.5	17	30	
n-Propylbenzene	1057	24	80	1000	0	106	76-116	852	21.5	30	
o-Xylene	1768	16	52	1000	686	108	76-127	1600	9.95	30	
p-Isopropyltoluene	1014	13	44	1000	0	101	61-164	840	18.8	30	
sec-Butylbenzene	1015	15	50	1000	0	102	80-134	807.5	22.8	30	
Styrene	1096	16	56	1000	0	110	79-117	890.5	20.7	30	
tert-Butylbenzene	1060	20	66	1000	0	106	70-130	825	24.9	30	
Tetrachloroethene	1027	20	66	1000	0	103	68-166	854	18.4	30	
trans-1,2-Dichloroethene	1042	24	80	1000	0	104	80-140	906.5	13.9	30	
trans-1,3-Dichloropropene	886	19	140	1000	0	88.6	56-132	716	21.2	30	
Trichloroethene	996	22	72	1000	13.5	98.2	77-125	824.5	18.8	30	
Trichlorofluoromethane	1040	26	86	1000	0	104	60-140	841.5	21.1	30	
Vinyl chloride	1040	26	88	1000	18	102	50-136	870	17.8	30	
Xylenes, Total	6076	40	220	3000	2826	108	76-127	5596	8.24	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	978	0	0	1000	0	97.8	75-120	1002	2.37	30	
<i>Surr: 4-Bromofluorobenzene</i>	1016	0	0	1000	0	102	80-110	1003	1.29	30	
<i>Surr: Dibromofluoromethane</i>	959.5	0	0	1000	0	96	85-115	950.5	0.942	30	
<i>Surr: Toluene-d8</i>	996	0	0	1000	0	99.6	85-110	980	1.62	30	

The following samples were analyzed in this batch:

21060304-50A	21060304-53A	21060304-54A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319985** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: 9V-BLKW3-210616-R319985				Units: µg/L		Analysis Date: 6/16/2021 07:44 PM			
Client ID:		Run ID: VMS9_210616A			SeqNo: 7495004		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								
<i>Surr: Toluene-d8</i>	5.38	0	0	5	0	108	74-124	0			

MBLK		Sample ID: MBLK--R319985				Units: µg/Kg		Analysis Date: 6/16/2021 10:26 PM			
Client ID:		Run ID: VMS9_210616A			SeqNo: 7495033		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	32	50								
<i>Surr: Toluene-d8</i>	12.6	0	0	5	0	252	76-127	0			S

LCS		Sample ID: 9V-LCSW2-210616-R319985				Units: µg/L		Analysis Date: 6/16/2021 06:58 PM			
Client ID:		Run ID: VMS9_210616A			SeqNo: 7495002		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	39.51	0.44	1.0	40	0	98.8	70-130	0			
<i>Surr: Toluene-d8</i>	5.33	0	0	5	0	107	74-124	0			

LCS		Sample ID: LCS--R319985				Units: µg/Kg		Analysis Date: 6/16/2021 07:13 PM			
Client ID:		Run ID: VMS9_210616A			SeqNo: 7495031		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	37.51	32	50	40	0	93.8	71-128	0			J
<i>Surr: Toluene-d8</i>	5.68	0	0	5	0	114	76-127	0			

MS		Sample ID: 21060304-41E MS				Units: µg/L		Analysis Date: 6/17/2021 03:53 AM			
Client ID: SVE-7		Run ID: VMS9_210616A			SeqNo: 7495026		Prep Date:		DF: 1000		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	38560	440	1,000	40000	0	96.4	70-130	0			HHH
<i>Surr: Toluene-d8</i>	6210	0	0	5000	0	124	74-124	0			S

MSD		Sample ID: 21060304-41E MSD				Units: µg/L		Analysis Date: 6/17/2021 04:09 AM			
Client ID: SVE-7		Run ID: VMS9_210616A			SeqNo: 7495027		Prep Date:		DF: 1000		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	42420	440	1,000	40000	0	106	70-130	38560	9.53	30	HHH
<i>Surr: Toluene-d8</i>	6930	0	0	5000	0	139	74-124	6210	11	30	S

The following samples were analyzed in this batch:

21060304-32E	21060304-33E	21060304-41E
21060304-53A		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319069** Instrument ID **Titrator 1** Method: **A2320 B-11**

MBLK		Sample ID: MB-R319069-R319069				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459555		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	U	8.4	10								

MBLK		Sample ID: MB-R319069-R319069				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459585		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	U	8.4	10								

LCS		Sample ID: LCS-R319069-R319069				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459556		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	963.7	8.4	10	1000	0	96.4	89-103	0			

LCS		Sample ID: LCS-R319069-R319069				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459584		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	959.6	8.4	10	1000	0	96	89-103	0			

DUP		Sample ID: 21060189-28D DUP				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459558		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	588.3	8.4	10	0	0	0	0-0	604.9	2.79	10	

DUP		Sample ID: 21060266-01B DUP				Units: mg/L		Analysis Date: 6/5/2021 10:17 AM			
Client ID:		Run ID: TITRATOR 1_210605A				SeqNo: 7459566		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	115.2	8.4	10	0	0	0	0-0	112.9	1.94	10	

The following samples were analyzed in this batch: 21060304-30C

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319370** Instrument ID **Titrator 1** Method: **A2320 B-11**

MBLK		Sample ID: MB-R319370-R319370				Units: mg/L		Analysis Date: 6/9/2021 01:11 PM			
Client ID:		Run ID: TITRATOR 1_210609A		SeqNo: 7472084		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	U	8.4	10								

LCS		Sample ID: LCS-R319370-R319370				Units: mg/L		Analysis Date: 6/9/2021 01:11 PM			
Client ID:		Run ID: TITRATOR 1_210609A		SeqNo: 7472085		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	961.9	8.4	10	1000	0	96.2	89-103	0			

DUP		Sample ID: 21060435-01D DUP				Units: mg/L		Analysis Date: 6/9/2021 01:11 PM			
Client ID:		Run ID: TITRATOR 1_210609A		SeqNo: 7472090		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	768.8	8.4	10	0	0	0	0-0	0	200	10	R

DUP		Sample ID: 21060573-01E DUP				Units: mg/L		Analysis Date: 6/9/2021 01:11 PM			
Client ID:		Run ID: TITRATOR 1_210609A		SeqNo: 7472095		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	288.8	8.4	10	0	0	0	0-0	284.2	1.61	10	

The following samples were analyzed in this batch: 21060304-31C 21060304-32C 21060304-41C

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319456** Instrument ID **IC3** Method: **SW9056A**

MBLK		Sample ID: MBLK-R319456				Units: mg/L		Analysis Date: 6/9/2021 12:18 PM			
Client ID:		Run ID: IC3_210609A				SeqNo: 7475008		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	U	0.19	1.0								

LCS		Sample ID: LCS-R319456				Units: mg/L		Analysis Date: 6/9/2021 12:38 PM			
Client ID:		Run ID: IC3_210609A				SeqNo: 7475009		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	9.784	0.19	1.0	10	0	97.8	90-110	0			

MS		Sample ID: 21060385-01A MS				Units: mg/L		Analysis Date: 6/9/2021 01:36 PM			
Client ID:		Run ID: IC3_210609A				SeqNo: 7475012		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	395.1	3.8	20	200	212.2	91.4	90-110	0			

MSD		Sample ID: 21060385-01A MSD				Units: mg/L		Analysis Date: 6/9/2021 01:55 PM			
Client ID:		Run ID: IC3_210609A				SeqNo: 7475013		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	393.7	3.8	20	200	212.2	90.7	90-110	395.1	0.36	20	

The following samples were analyzed in this batch:

21060304-30C	21060304-31C	21060304-32C
21060304-41C		

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319496a** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MB-R319496-R319496a				Units: mg/L		Analysis Date: 6/9/2021 12:54 PM			
Client ID:		Run ID: TOC3_210609A				SeqNo: 7476323		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

LCS		Sample ID: LCS-R319496-R319496a				Units: mg/L		Analysis Date: 6/9/2021 01:40 PM			
Client ID:		Run ID: TOC3_210609A				SeqNo: 7476324		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.801	0.14	0.50	5	0	96	80-120	0			

The following samples were analyzed in this batch:

21060304-30F	21060304-31F	21060304-32F
21060304-33F		

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

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319615** Instrument ID **TOC3** Method: **E415.1**

MBLK		Sample ID: CCB/MBLK-R319615				Units: mg/L		Analysis Date: 6/11/2021 08:18 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481033		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

MBLK		Sample ID: MB-R319615-R319615				Units: mg/L		Analysis Date: 6/11/2021 08:18 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481117		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

MBLK		Sample ID: MB-R319615-R319615				Units: mg/L		Analysis Date: 6/11/2021 08:18 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481119		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

LCS		Sample ID: LCS-R319615				Units: mg/L		Analysis Date: 6/11/2021 09:05 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481034		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.681	0.14	0.50	5	0	93.6	80-120	0			

LCS		Sample ID: LCS-R319615-R319615				Units: mg/L		Analysis Date: 6/11/2021 09:05 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481118		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.681	0.14	0.50	5	0	93.6	80-120	0			

LCS		Sample ID: LCS-R319615-R319615				Units: mg/L		Analysis Date: 6/11/2021 09:05 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481120		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.681	0.14	0.50	5	0	93.6	80-120	0			

MS		Sample ID: 21060779-01A MS				Units: mg/L		Analysis Date: 6/11/2021 10:39 AM			
Client ID:		Run ID: TOC3_210611A				SeqNo: 7481036		Prep Date:		DF: 2	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	15.01	0.28	1.0	10	5.333	96.8	70-130	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21060304
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319615** Instrument ID **TOC3** Method: **E415.1**

MSD		Sample ID: 21060779-01A MSD				Units: mg/L		Analysis Date: 6/11/2021 11:25 AM			
Client ID:		Run ID: TOC3_210611A		SeqNo: 7481037		Prep Date:		DF: 2			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	14.41	0.28	1.0	10	5.333	90.7	70-130	15.01	4.09	20	

The following samples were analyzed in this batch: 21060304-33f 21060304-41f

Client: Gannett Fleming, Inc.
 Work Order: 21060304
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R319741C** Instrument ID **LACHAT** Method: **E353.2 R2.0**

MBLK		Sample ID: MBLK3-R319741C				Units: mg/L		Analysis Date: 6/14/2021 12:12 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485917		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	U	0.012	0.020								

LCS		Sample ID: LCS3-R319741C				Units: mg/L		Analysis Date: 6/14/2021 12:13 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485918		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.482	0.012	0.020	2.5	0	99.3	80-120	0			

MS		Sample ID: 21060447-01A MS				Units: mg/L		Analysis Date: 6/14/2021 12:25 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485928		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.473	0.012	0.020	2.5	0.02703	97.8	75-125	0			

MS		Sample ID: 21061075-02G MS				Units: mg/L		Analysis Date: 6/14/2021 12:41 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485942		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.924	0.012	0.020	2.5	0.4282	99.8	75-125	0			

MSD		Sample ID: 21060447-01A MSD				Units: mg/L		Analysis Date: 6/14/2021 12:26 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485929		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.514	0.012	0.020	2.5	0.02703	99.5	75-125	2.473	1.63	20	

MSD		Sample ID: 21061075-02G MSD				Units: mg/L		Analysis Date: 6/14/2021 12:45 PM			
Client ID:		Run ID: LACHAT_210614B				SeqNo: 7485945		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.959	0.012	0.020	2.5	0.4282	101	75-125	2.924	1.18	20	

The following samples were analyzed in this batch:

21060304-30D	21060304-31D	21060304-32D
21060304-33D	21060304-41D	

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



Cincinnati, OH
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Chain of Custody Form

Page 1 of 2

COC ID: 231193

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Spring City, PA
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Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	<u>f</u>	Project Name	<u>55424 WRR</u>	A	<u>VOCs</u>										
Work Order	<u>5</u>	Project Number	<u>55929</u>	B											
Company Name	<u>Gannett Fleming, Inc</u>	Bill To Company	<u>Gannett Fleming, Inc</u>	C											
Send Report To		Invoice Attn	<u>Accounts Payable</u>	D											
Address	<u>8040 Excelsior Drive</u>	Address	<u>8040 Excelsior Drive</u>	E											
	<u>Suite 303</u>		<u>Suite 303</u>	F											
City/State/Zip	<u>Madison, WI 53717-1338</u>	City/State/Zip	<u>Madison, WI 53717-1338</u>	G											
Phone	<u>(608) 936-1500</u>	Phone	<u>(608) 936-1500</u>	H											
Fax		Fax		I											
e-Mail Address	<u>aw.miller@gfnet.com</u>	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	<u>W-1</u>	<u>6/1</u>	<u>15:50</u>	<u>GW</u>	<u>HCl</u>	<u>3</u>	<u>X</u>										
2	<u>W-1A</u>		<u>15:45</u>														
3	<u>W-1D</u>		<u>16:00</u>														
4	<u>W-7</u>		<u>15:15</u>														
5	<u>W-7 Dup</u>		<u>15:16</u>			<u>2</u>											
6	<u>W-7A</u>		<u>15:25</u>			<u>3</u>											
7	<u>W-18</u>		<u>14:35</u>														
8	<u>W-18A</u>		<u>14:40</u>														
9	<u>MW-111</u>		<u>11:35</u>														
10	<u>MW-111A</u>		<u>11:30</u>														

Sampler(s) Please Print & Sign <u>Marcus Mussey</u>		Shipment Method <u>FedEx</u>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:				
Relinquished by: <u>[Signature]</u>	Date: <u>6/1</u>	Time: <u>16:50</u>	Received by: <u>FedEx</u>		Notes:							
Relinquished by: <u>FedEx</u>	Date: <u>6/2/21</u>	Time: <u>14:30</u>	Received by (Laboratory): <u>[Signature]</u>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <u>Ke</u>	Date: <u>6/3/21</u>	Time: <u>10:15</u>	Checked by (Laboratory): <u>[Signature]</u>		<u>123</u>	<u>3.1°C</u>	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList	<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV	<input type="checkbox"/> Level IV SW846/CLP	<input type="checkbox"/> Other
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035												

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COC ID: 231194

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South Charleston, WV
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ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name		A	VOCs											
Work Order		Project Number	55929	B												
Company Name	Gannett Fleming, Inc.	Bill To Company	Gannett Fleming, Inc.	C												
Send Report To		Invoice Attn	Accounts Payable	D												
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E												
	Suite 303		Suite 303	F												
City/State/Zip	Madison, WI 53717-1339	City/State/Zip	Madison, WI 53717-1339	G												
Phone	(608) 836-1500	Phone	(608) 836-1500	H												
Fax		Fax		I												
e-Mail Address		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-111B	6/1	11:25	GW	1	3	X										
2	MW-114		10:41														
3	MW-114A		10:45														
4	MW-114B		10:35														
5	Scup 2N		11:45														
6	Scup 7N		11:50														
7	Trip Blank					2											
8																	
9																	
10																	

Sampler(s) Please Print & Sign <u>[Signature]</u>		Shipment Method Fed Ex		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <u>[Signature]</u>	Date: 6/1	Time: 16:50	Received by: Fed Ex	Notes:					
Relinquished by: Fed Ex	Date: 6/2/21	Time: 1430	Received by (Laboratory): <u>[Signature]</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory): Kew	Date: 6/3/21	Time: 1015	Checked by (Laboratory): <u>[Signature]</u>			<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV		
						<input type="checkbox"/> Level IV SW846/CLP			
						<input type="checkbox"/> Other			

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Page 1 of 3

COC ID: 231192

ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	WRR	A	VOCs											
Work Order		Project Number	55929	B												
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C												
Send Report To		Invoice Attn	Accounts Payable	D												
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E												
	Suite 303		Suite 303	F												
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G												
Phone	(608) 838-1500	Phone	(608) 838-1500	H												
Fax		Fax		I												
e-Mail Address		e-Mail Address		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-2A	6/2	13:45	GW	1	3	X										
2	W-2B		13:40														
3	W-3A		8:20														
4	W-3B		8:15														
5	W-17		9:50														
6	W-17A		10:00														
7	W-17B		10:10														
8	W-20		12:45														
9	W-27		11:25														
10	W-29		9:10														

Sampler(s) Please Print & Sign <u>Marcus Mussy</u>		Shipment Method <u>FedEx</u>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <u>[Signature]</u>	Date: <u>6/2</u>	Time: <u>16:45</u>	Received by: <u>FedEx</u>	Notes:							
Relinquished by: <u>FedEx</u>	Date: <u>6/3/21</u>	Time: <u>1430</u>	Received by (Laboratory): <u>[Signature]</u>	Cooler ID <u>1B3</u>	Cooler Temp. <u>3.4°C</u>	QC Package: (Check One Box Below)					
Logged by (Laboratory): <u>Ke</u>	Date: <u>6/4/21</u>	Time: <u>0915</u>	Checked by (Laboratory): <u>[Signature]</u>	<input type="checkbox"/> Level II Std GG	<input type="checkbox"/> TRRP Check, let						
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std GC/Raw Data	<input type="checkbox"/> TRRP Level IV						
				<input type="checkbox"/> Level IV SW846/CLP							
				<input type="checkbox"/> Other							

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Page 2 of 3

COC ID: 231186

ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis																		
Purchase Order		Project Name		A	UOCs																	
Work Order		Project Number		B	Dis. Metals																	
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C	Alky																	
Send Report To		Invoice Attn	Accounts Payable	D	Sulfate																	
Address	8040 Excelsior Drive Suite 303	Address	8040 Excelsior Drive Suite 303	E	Nitrate/nite																	
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	F	ToC																	
Phone	(608) 936-1500	Phone	(608) 936-1500	G	MEE																	
Fax		Fax		H	1,4-Dioxane																	
e-Mail Address		e-Mail Address		I																		
				J																		

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-31A	6/2	13:15	GW	1	3	X										
2	W-31B		13:20		1	3	X	X	X	X	X	X	X	X			
3	W-32		10:10		1,3	11											
4	W-33		11:00														
5	W-34		9:10														
6	W-35		14:20														
7	MW-104		10:20		1	3											
8	MW-104A		10:25														
9	MW-106		10:55														
10	MW-106A		11:00														

Sampler(s) Please Print & Sign _____ Shipment Method _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other _____ 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: <u>FEDE</u>	Date: <u>6/3/21</u>	Time: <u>1430</u>	Received by: <u>FEDE</u>	Notes:
Relinquished by: <u>FEDE</u>	Date: <u>6/3/21</u>	Time: <u>1430</u>	Received by (Laboratory): <u>[Signature]</u>	Cooler ID
Logged by (Laboratory): <u>KR</u>	Date: <u>6/4/21</u>	Time: <u>0915</u>	Checked by (Laboratory): <u>[Signature]</u>	Cooler Temp.
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				QC Package: (Check One Box Below)
				<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList
				<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV
				<input type="checkbox"/> Level IV SW846/CLP
				<input type="checkbox"/> Other _____



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+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name		A	VOC										
Work Order		Project Number	55929	B	Dis. Metals										
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C	AIky										
Send Report To		Invoice Attn	Accounts Payable	D	sulfate										
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E	N. triate/rite										
	Suite 303		Suite 303	F	TOC										
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G	MEE										
Phone	(608) 336-1500	Phone	(608) 336-1500	H	<u>+</u>										
Fax		Fax		I											
e-Mail Address		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-116	6/2	8:46	GW	1	3	X										
2	RW-5		16:10														
3	RW-5 Dup		16:15														
4	SVE-7		16:16		1,3	11		X	X	X	X	X	X				
5	Trip Blank																
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
				<input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other _____ <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour					
Relinquished by:	Date:	Time:	Received by:	Notes:					
Relinquished by: <u>FEDEX</u>	Date: <u>6/3/21</u>	Time: <u>1430</u>	Received by: <u>FEDEX</u>						
Logged by (Laboratory): <u>KEJ</u>	Date: <u>6/4/21</u>	Time: <u>0915</u>	Checked by (Laboratory): <u>EB</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level II Std QG <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other _____			

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Page 1 of 2

COC ID: 231191

ALS Project Manager: EB

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name		A	VDCs											
Work Order		Project Number	55929	B	1-4,											
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C												
Send Report To		Invoice Attn	Accounts Payable	D												
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E												
	Suite 303		Suite 303	F												
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G												
Phone	(608) 936-1500	Phone	(608) 936-1500	H												
Fax		Fax		I												
e-Mail Address		e-Mail Address		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-2	6/3	9:25	GW	1	3	X										
2	W-2 Dup		9:26														
3	W-3		7:50														
4	W-4		10:05														
5	W-5		8:20														
6	W-6		9:10														
7	W-19R		10:40														
8	W-28		11:15														
9	TW-1		8:40														
10	TW-1 Dup		8:41														

Sampler(s) Please Print & Sign <u>Maious Mussey</u>		Shipment Method <u>FedEx</u>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <u>[Signature]</u>	Date: <u>6/3</u>	Time: <u>16:30</u>	Received by: <u>FedEx</u>	Notes:							
Relinquished by: <u>FED EX</u>	Date: <u>6/4/21</u>	Time: <u>1500</u>	Received by (Laboratory): <u>[Signature]</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <u>DFS</u>	Date: <u>6/7/21</u>	Time: <u>1000</u>	Checked by (Laboratory): <u>EB</u>	<u>IR3</u>	<u>2.3°C</u>	<input type="checkbox"/> Level II Std G5	<input type="checkbox"/> TRRP Checklist				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV				
						<input type="checkbox"/> Level IV SW846/CLP					
						<input type="checkbox"/> Other					

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Page 2 of 2

COC ID: 231190

ALS Project Manager: *[Signature]*

ALS Work Order #: 21060304

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name		A	VOCs										
Work Order		Project Number	55929	B	1-4, Dioxane										
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C											
Send Report To		Invoice Attn	Accounts Payable	D											
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E											
	Suite 303		Suite 303	F											
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G											
Phone	(608) 836-1500	Phone	(608) 836-1500	H											
Fax		Fax		I											
e-Mail Address		e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TS Inf	6/3	11:40	GW	↓	6	X	X									
2	Res. Eff	↓	11:45	↓	↓	3	X										
3	SVE-4	↓	9:45	↓	↓	2	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign _____ Shipment Method _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date: _____

Relinquished by:	Date:	Time:	Received by:	Notes:
Relinquished by: <i>FED ex</i>	Date: 6/4/21	Time: 1500	Received by (Laboratory): <i>[Signature]</i>	Notes:
Logged by (Laboratory): <i>DCS</i>	Date: 6/7/21	Time: 1000	Checked by (Laboratory): <i>[Signature]</i>	Notes:
Cooler ID: 1R3 Cooler Temp: 2.3°C				QC Package: (Check One Box Below)
				<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other: _____

Sample Receipt Checklist

Client Name: **GANNETFLEMING - WI**

Date/Time Received: **02-Jun-21 14:30**

Work Order: **21060304**

Received by: **KRW**

Checklist completed by Keith Wierenga 03-Jun-21
eSignature Date

Reviewed by: Eheland Beaworth 03-Jun-21
eSignature 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): 3.1/4.1 C IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 6/3/2021 10:16:53 AM

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:

Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/01/21	103	39175	J 1.6	ug/L	ES		21060304-02	W-1A	01	Vinyl chloride	0.02	0.2
06/01/21	139	34475	2.5	ug/L	PAL		21060304-04	W-7	01	Tetrachloroethene	0.5	5
06/01/21	139	34475	2.5	ug/L	PAL		21060304-05	W-7	02	Tetrachloroethene	0.5	5
06/01/21	142	34475	8.9	ug/L	ES		21060304-06	W-7A	01	Tetrachloroethene	0.5	5
06/01/21	181	99358	J 0.72	ug/L	PAL		21060304-08	W-18A	01	1,2-Dichloroethane	0.5	5
06/01/21	181	99001	2.4	ug/L	PAL		21060304-08	W-18A	01	Benzene	0.5	5
06/01/21	181	34423	J 1.1	ug/L	PAL		21060304-08	W-18A	01	Methylene chloride	0.5	5
06/01/21	181	39175	J 1.4	ug/L	ES		21060304-08	W-18A	01	Vinyl chloride	0.02	0.2
06/01/21	360	99358	4.9	ug/L	PAL		21060304-10	MW-111A	01	1,2-Dichloroethane	0.5	5
06/01/21	360	99001	1.9	ug/L	PAL		21060304-10	MW-111A	01	Benzene	0.5	5
06/01/21	360	34311	180	ug/L	PAL		21060304-10	MW-111A	01	Chloroethane	80	400
06/01/21	363	39180	J 1.3	ug/L	PAL		21060304-11	MW-111B	01	Trichloroethene	0.5	5
06/01/21	363	39175	2.2	ug/L	ES		21060304-11	MW-111B	01	Vinyl chloride	0.02	0.2
06/01/21	384	39180	1.8	ug/L	PAL		21060304-12	MW-114	01	Trichloroethene	0.5	5
06/01/21	387	34475	14	ug/L	ES		21060304-13	MW-114A	01	Tetrachloroethene	0.5	5
06/01/21	387	39180	6.0	ug/L	ES		21060304-13	MW-114A	01	Trichloroethene	0.5	5
06/01/21		34423	J 1.1	ug/L	PAL		21060304-17	Trip Blank-1	01	Methylene chloride	0.5	5
06/02/21	115	34475	6.1	ug/L	ES		21060304-18	W-2A	01	Tetrachloroethene	0.5	5
06/02/21	115	39180	J 0.57	ug/L	PAL		21060304-18	W-2A	01	Trichloroethene	0.5	5
06/02/21	172	34496	87	ug/L	PAL		21060304-23	W-17A	01	1,1-Dichloroethane	85	850
06/02/21	172	78133	890	ug/L	ES		21060304-23	W-17A	01	4-Methyl-2-pentanone	50	500
06/02/21	172	99001	12	ug/L	ES		21060304-23	W-17A	01	Benzene	0.5	5
06/02/21	172	34311	1300	ug/L	ES		21060304-23	W-17A	01	Chloroethane	80	400
06/02/21	172	34010	910	ug/L	ES		21060304-23	W-17A	01	Toluene	160	800
06/02/21	172	39175	J 4.0	ug/L	ES		21060304-23	W-17A	01	Vinyl chloride	0.02	0.2
06/02/21	175	39180	J 1.1	ug/L	PAL		21060304-24	W-17B	01	Trichloroethene	0.5	5
06/02/21		77093	8.1	ug/L	PAL		21060304-25	W-2C	01	cis-1,2-Dichloroethene	7	70

Thursday, June 17, 2021

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

MSI: 01-Sample; 02-Sample Duplicate; 03-Sample Triplicate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL

Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/02/21		39180	24	ug/L	ES		21060304-25	W-2C	01	Trichloroethene	0.5	5
06/02/21		39175	J 0.88	ug/L	ES		21060304-25	W-2C	01	Vinyl chloride	0.02	0.2
06/02/21	208	39180	J 0.97	ug/L	PAL		21060304-26	W-27	01	Trichloroethene	0.5	5
06/02/21	223	99358	J 0.74	ug/L	PAL		21060304-28	W-31A	01	1,2-Dichloroethane	0.5	5
06/02/21	223	99001	J 0.93	ug/L	PAL		21060304-28	W-31A	01	Benzene	0.5	5
06/02/21	223	34010	260	ug/L	PAL		21060304-28	W-31A	01	Toluene	160	800
06/02/21	228	34506	8400	ug/L	ES		21060304-30	W-32	01	1,1,1-Trichloroethane	40	200
06/02/21	228	34511	58	ug/L	ES		21060304-30	W-32	01	1,1,2-Trichloroethane	0.5	5
06/02/21	228	34496	2600	ug/L	ES		21060304-30	W-32	01	1,1-Dichloroethane	85	850
06/02/21	228	34501	1300	ug/L	ES		21060304-30	W-32	01	1,1-Dichloroethene	0.7	7
06/02/21	228	99358	38	ug/L	ES		21060304-30	W-32	01	1,2-Dichloroethane	0.5	5
06/02/21	228	99360	90	ug/L	ES		21060304-30	W-32	01	1,2-Dichloropropane	0.5	5
06/02/21	228	99001	J 3.4	ug/L	PAL		21060304-30	W-32	01	Benzene	0.5	5
06/02/21	228	32106	27	ug/L	ES		21060304-30	W-32	01	Chloroform	0.6	6
06/02/21	228	77093	12000	ug/L	ES		21060304-30	W-32	01	cis-1,2-Dichloroethene	7	70
06/02/21	228	34423	14	ug/L	ES		21060304-30	W-32	01	Methylene chloride	0.5	5
06/02/21	228	34475	730	ug/L	ES		21060304-30	W-32	01	Tetrachloroethene	0.5	5
06/02/21	228	39180	1900	ug/L	ES		21060304-30	W-32	01	Trichloroethene	0.5	5
06/02/21	228	39175	260	ug/L	ES		21060304-30	W-32	01	Vinyl chloride	0.02	0.2
06/02/21	228	74010	3.0	mg/L	ES		21060304-30	W-32	01	Iron	0.15	0.3
06/02/21	228		360	mg/L	ES		21060304-30	W-32	01	Alkalinity, Total (as CaCO3)	1	0
06/02/21	228	680	19	mg/L	ES		21060304-30	W-32	01	Organic Carbon, Total	1	0
06/02/21	233	34506	400	ug/L	ES		21060304-31	W-33	01	1,1,1-Trichloroethane	40	200
06/02/21	233	34511	27	ug/L	ES		21060304-31	W-33	01	1,1,2-Trichloroethane	0.5	5
06/02/21	233	34496	1900	ug/L	ES		21060304-31	W-33	01	1,1-Dichloroethane	85	850
06/02/21	233	34501	35	ug/L	ES		21060304-31	W-33	01	1,1-Dichloroethene	0.7	7
06/02/21	233	77222	150	ug/L	PAL		21060304-31	W-33	01	1,2,4-Trimethylbenzene	96	480

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

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Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/02/21	233	99358	56	ug/L	ES		21060304-31	W-33	01	1,2-Dichloroethane	0.5	5
06/02/21	233	99360	19	ug/L	ES		21060304-31	W-33	01	1,2-Dichloropropane	0.5	5
06/02/21	233	78133	120	ug/L	PAL		21060304-31	W-33	01	4-Methyl-2-pentanone	50	500
06/02/21	233	34311	770	ug/L	ES		21060304-31	W-33	01	Chloroethane	80	400
06/02/21	233	77093	4100	ug/L	ES		21060304-31	W-33	01	cis-1,2-Dichloroethene	7	70
06/02/21	233	78113	290	ug/L	PAL		21060304-31	W-33	01	Ethylbenzene	140	700
06/02/21	233	85795	1000	ug/L	PAL		21060304-31	W-33	01	m,p-Xylene	400	2000
06/02/21	233	34423	920	ug/L	ES		21060304-31	W-33	01	Methylene chloride	0.5	5
06/02/21	233	34696	J 17	ug/L	PAL		21060304-31	W-33	01	Naphthalene	10	100
06/02/21	233	77135	550	ug/L	PAL		21060304-31	W-33	01	o-Xylene	400	2000
06/02/21	233	34475	J 6.4	ug/L	ES		21060304-31	W-33	01	Tetrachloroethene	0.5	5
06/02/21	233	34010	940	ug/L	ES		21060304-31	W-33	01	Toluene	160	800
06/02/21	233	39180	J 5.9	ug/L	ES		21060304-31	W-33	01	Trichloroethene	0.5	5
06/02/21	233	39175	480	ug/L	ES		21060304-31	W-33	01	Vinyl chloride	0.02	0.2
06/02/21	233	81551	1600	ug/L	PAL		21060304-31	W-33	01	Xylenes, Total	400	2000
06/02/21	233	74010	230	mg/L	ES		21060304-31	W-33	01	Iron	0.15	0.3
06/02/21	233		180	mg/L	ES		21060304-31	W-33	01	Alkalinity, Total (as CaCO3)	1	0
06/02/21	233		180	ug/L	ES		21060304-31	W-33	01	1,4-Dioxane	0.3	3
06/02/21	233	680	43	mg/L	ES		21060304-31	W-33	01	Organic Carbon, Total	1	0
06/02/21	235	34506	750	ug/L	ES		21060304-32	W-34	01	1,1,1-Trichloroethane	40	200
06/02/21	235	34511	200	ug/L	ES		21060304-32	W-34	01	1,1,2-Trichloroethane	0.5	5
06/02/21	235	34496	290	ug/L	PAL		21060304-32	W-34	01	1,1-Dichloroethane	85	850
06/02/21	235	34501	J 3.8	ug/L	PAL		21060304-32	W-34	01	1,1-Dichloroethene	0.7	7
06/02/21	235	99358	25	ug/L	ES		21060304-32	W-34	01	1,2-Dichloroethane	0.5	5
06/02/21	235	99360	21	ug/L	ES		21060304-32	W-34	01	1,2-Dichloropropane	0.5	5
06/02/21	235	32106	J 4.0	ug/L	PAL		21060304-32	W-34	01	Chloroform	0.6	6
06/02/21	235	77093	410	ug/L	ES		21060304-32	W-34	01	cis-1,2-Dichloroethene	7	70

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

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Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/02/21	235	34423	22	ug/L	ES		21060304-32	W-34	01	Methylene chloride	0.5	5
06/02/21	235	39180	J 2.6	ug/L	PAL		21060304-32	W-34	01	Trichloroethene	0.5	5
06/02/21	235	39175	390	ug/L	ES		21060304-32	W-34	01	Vinyl chloride	0.02	0.2
06/02/21	235	74010	87	mg/L	ES		21060304-32	W-34	01	Iron	0.15	0.3
06/02/21	235		210	mg/L	ES		21060304-32	W-34	01	Alkalinity, Total (as CaCO3)	1	0
06/02/21	235	680	39	mg/L	ES		21060304-32	W-34	01	Organic Carbon, Total	1	0
06/02/21		34475	J 1.0	ug/L	PAL		21060304-33	W-35	01	Tetrachloroethene	0.5	5
06/02/21		74010	52	mg/L	ES		21060304-33	W-35	01	Iron	0.15	0.3
06/02/21		680	110	mg/L	ES		21060304-33	W-35	01	Organic Carbon, Total	1	0
06/02/21	512	34506	60	ug/L	PAL		21060304-39	RW-5	01	1,1,1-Trichloroethane	40	200
06/02/21	512	34501	J 0.85	ug/L	PAL		21060304-39	RW-5	01	1,1-Dichloroethene	0.7	7
06/02/21	512	77093	91	ug/L	ES		21060304-39	RW-5	01	cis-1,2-Dichloroethene	7	70
06/02/21	512	34423	5.2	ug/L	ES		21060304-39	RW-5	01	Methylene chloride	0.5	5
06/02/21	512	34475	34	ug/L	ES		21060304-39	RW-5	01	Tetrachloroethene	0.5	5
06/02/21	512	39180	38	ug/L	ES		21060304-39	RW-5	01	Trichloroethene	0.5	5
06/02/21	512	34506	59	ug/L	PAL		21060304-40	RW-5	02	1,1,1-Trichloroethane	40	200
06/02/21	512	34501	J 0.90	ug/L	PAL		21060304-40	RW-5	02	1,1-Dichloroethene	0.7	7
06/02/21	512	77093	88	ug/L	ES		21060304-40	RW-5	02	cis-1,2-Dichloroethene	7	70
06/02/21	512	34423	4.4	ug/L	PAL		21060304-40	RW-5	02	Methylene chloride	0.5	5
06/02/21	512	34475	35	ug/L	ES		21060304-40	RW-5	02	Tetrachloroethene	0.5	5
06/02/21	512	39180	38	ug/L	ES		21060304-40	RW-5	02	Trichloroethene	0.5	5
06/02/21		34506	14000	ug/L	ES		21060304-41	SVE-7	01	1,1,1-Trichloroethane	40	200
06/02/21		34496	1300	ug/L	ES		21060304-41	SVE-7	01	1,1-Dichloroethane	85	850
06/02/21		34501	180	ug/L	ES		21060304-41	SVE-7	01	1,1-Dichloroethene	0.7	7
06/02/21		34536	140	ug/L	PAL		21060304-41	SVE-7	01	1,2-Dichlorobenzene	60	600
06/02/21		99360	J 160	ug/L	ES		21060304-41	SVE-7	01	1,2-Dichloropropane	0.5	5
06/02/21		77093	3800	ug/L	ES		21060304-41	SVE-7	01	cis-1,2-Dichloroethene	7	70

Thursday, June 17, 2021

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

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Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/02/21		34423	480	ug/L	ES		21060304-41	SVE-7	01	Methylene chloride	0.5	5
06/02/21		34475	7100	ug/L	ES		21060304-41	SVE-7	01	Tetrachloroethene	0.5	5
06/02/21		39180	15000	ug/L	ES		21060304-41	SVE-7	01	Trichloroethene	0.5	5
06/02/21		39175	310	ug/L	ES		21060304-41	SVE-7	01	Vinyl chloride	0.02	0.2
06/02/21		81551	570	ug/L	PAL		21060304-41	SVE-7	01	Xylenes, Total	400	2000
06/02/21		74010	71	mg/L	ES		21060304-41	SVE-7	01	Iron	0.15	0.3
06/02/21			910	mg/L	ES		21060304-41	SVE-7	01	Alkalinity, Total (as CaCO3)	1	0
06/02/21		680	1600	mg/L	ES		21060304-41	SVE-7	01	Organic Carbon, Total	1	0
06/02/21		34423	J 2.0	ug/L	PAL		21060304-42	Trip Blank-2	01	Methylene chloride	0.5	5
06/03/21	112	34475	28	ug/L	ES		21060304-43	W-2	01	Tetrachloroethene	0.5	5
06/03/21	112	39180	3.2	ug/L	PAL		21060304-43	W-2	01	Trichloroethene	0.5	5
06/03/21	112	34475	27	ug/L	ES		21060304-44	W-2	02	Tetrachloroethene	0.5	5
06/03/21	112	39180	3.2	ug/L	PAL		21060304-44	W-2	02	Trichloroethene	0.5	5
06/03/21	133	99358	J 0.76	ug/L	PAL		21060304-47	W-5	01	1,2-Dichloroethane	0.5	5
06/03/21	133	34423	3.7	ug/L	PAL		21060304-47	W-5	01	Methylene chloride	0.5	5
06/03/21	133	39180	J 0.81	ug/L	PAL		21060304-47	W-5	01	Trichloroethene	0.5	5
06/03/21	136	34475	4.5	ug/L	PAL		21060304-48	W-6	01	Tetrachloroethene	0.5	5
06/03/21	136	39180	2.8	ug/L	PAL		21060304-48	W-6	01	Trichloroethene	0.5	5
06/03/21	185	99001	29	ug/L	ES		21060304-49	W-19R	01	Benzene	0.5	5
06/03/21	185	34311	120	ug/L	PAL		21060304-49	W-19R	01	Chloroethane	80	400
06/03/21	185	78113	1000	ug/L	ES		21060304-49	W-19R	01	Ethylbenzene	140	700
06/03/21	185	85795	1500	ug/L	PAL		21060304-49	W-19R	01	m,p-Xylene	400	2000
06/03/21	185	77135	680	ug/L	PAL		21060304-49	W-19R	01	o-Xylene	400	2000
06/03/21	185	81551	2200	ug/L	ES		21060304-49	W-19R	01	Xylenes, Total	400	2000
06/03/21	404	77222	910	ug/L	ES		21060304-51	TW-1	01	1,2,4-Trimethylbenzene	96	480
06/03/21	404	77226	240	ug/L	PAL		21060304-51	TW-1	01	1,3,5-Trimethylbenzene	96	480
06/03/21	404	77093	79	ug/L	ES		21060304-51	TW-1	01	cis-1,2-Dichloroethene	7	70

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

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License Number: 04234

Report Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/03/21	404	78113	1100	ug/L	ES		21060304-51	TW-1	01	Ethylbenzene	140	700
06/03/21	404	85795	2800	ug/L	ES		21060304-51	TW-1	01	m,p-Xylene	400	2000
06/03/21	404	34696	56	ug/L	PAL		21060304-51	TW-1	01	Naphthalene	10	100
06/03/21	404	77135	690	ug/L	PAL		21060304-51	TW-1	01	o-Xylene	400	2000
06/03/21	404	34010	370	ug/L	PAL		21060304-51	TW-1	01	Toluene	160	800
06/03/21	404	39175	120	ug/L	ES		21060304-51	TW-1	01	Vinyl chloride	0.02	0.2
06/03/21	404	81551	3400	ug/L	ES		21060304-51	TW-1	01	Xylenes, Total	400	2000
06/03/21	404	77222	740	ug/L	ES		21060304-52	TW-1 Dup	02	1,2,4-Trimethylbenzene	96	480
06/03/21	404	77226	220	ug/L	PAL		21060304-52	TW-1 Dup	02	1,3,5-Trimethylbenzene	96	480
06/03/21	404	77093	68	ug/L	PAL		21060304-52	TW-1 Dup	02	cis-1,2-Dichloroethene	7	70
06/03/21	404	78113	1000	ug/L	ES		21060304-52	TW-1 Dup	02	Ethylbenzene	140	700
06/03/21	404	85795	2700	ug/L	ES		21060304-52	TW-1 Dup	02	m,p-Xylene	400	2000
06/03/21	404	34696	47	ug/L	PAL		21060304-52	TW-1 Dup	02	Naphthalene	10	100
06/03/21	404	77135	630	ug/L	PAL		21060304-52	TW-1 Dup	02	o-Xylene	400	2000
06/03/21	404	34010	320	ug/L	PAL		21060304-52	TW-1 Dup	02	Toluene	160	800
06/03/21	404	39175	100	ug/L	ES		21060304-52	TW-1 Dup	02	Vinyl chloride	0.02	0.2
06/03/21	404	81551	3300	ug/L	ES		21060304-52	TW-1 Dup	02	Xylenes, Total	400	2000
06/03/21		81595	4800	ug/L	ES		21060304-53	TS Inf	01	2-Butanone	800	4000
06/03/21		78133	780	ug/L	ES		21060304-53	TS Inf	01	4-Methyl-2-pentanone	50	500
06/03/21		81552	4700	ug/L	PAL		21060304-53	TS Inf	01	Acetone	1800	9000
06/03/21		34311	J 110	ug/L	PAL		21060304-53	TS Inf	01	Chloroethane	80	400
06/03/21		77093	J 53	ug/L	PAL		21060304-53	TS Inf	01	cis-1,2-Dichloroethene	7	70
06/03/21		78113	570	ug/L	PAL		21060304-53	TS Inf	01	Ethylbenzene	140	700
06/03/21		85795	2100	ug/L	ES		21060304-53	TS Inf	01	m,p-Xylene	400	2000
06/03/21		77135	690	ug/L	PAL		21060304-53	TS Inf	01	o-Xylene	400	2000
06/03/21		34010	9000	ug/L	ES		21060304-53	TS Inf	01	Toluene	160	800
06/03/21		81551	2800	ug/L	ES		21060304-53	TS Inf	01	Xylenes, Total	400	2000

Thursday, June 17, 2021

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Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

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ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
06/03/21		34506	4800	ug/L	ES		21060304-55	SVE-4	01	1,1,1-Trichloroethane	40	200
06/03/21		34511	880	ug/L	ES		21060304-55	SVE-4	01	1,1,2-Trichloroethane	0.5	5
06/03/21		34496	98	ug/L	PAL		21060304-55	SVE-4	01	1,1-Dichloroethane	85	850
06/03/21		34501	65	ug/L	ES		21060304-55	SVE-4	01	1,1-Dichloroethene	0.7	7
06/03/21		99358	J 18	ug/L	ES		21060304-55	SVE-4	01	1,2-Dichloroethane	0.5	5
06/03/21		99360	50	ug/L	ES		21060304-55	SVE-4	01	1,2-Dichloropropane	0.5	5
06/03/21		32106	J 13	ug/L	ES		21060304-55	SVE-4	01	Chloroform	0.6	6
06/03/21		77093	1100	ug/L	ES		21060304-55	SVE-4	01	cis-1,2-Dichloroethene	7	70
06/03/21		34423	64	ug/L	ES		21060304-55	SVE-4	01	Methylene chloride	0.5	5
06/03/21		34475	11000	ug/L	ES		21060304-55	SVE-4	01	Tetrachloroethene	0.5	5
06/03/21		39180	8800	ug/L	ES		21060304-55	SVE-4	01	Trichloroethene	0.5	5

Thursday, June 17, 2021

Page 7 of 7

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

MSI: 01-Sample; 02-Sample Duplicate; 03-Sample Triplicate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL



The analytical & QA/QC results in the attached laboratory report have been reviewed and approved by AWM on 10/22/21

21-Oct-2021

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

Re: **WRR (55929.005)**

Work Order: **21100877**

Dear Anthony,

ALS Environmental received 7 samples on 08-Oct-2021 09:30 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 22.

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,

A handwritten signature in cursive script that reads "Jodi Blouw".

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: WI: 399084510

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21100877

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21100877-01	W-32	Groundwater		10/7/2021 16:20	10/8/2021 09:30	<input type="checkbox"/>
21100877-02	W-33	Groundwater		10/7/2021 15:00	10/8/2021 09:30	<input type="checkbox"/>
21100877-03	W-34	Groundwater		10/7/2021 11:20	10/8/2021 09:30	<input type="checkbox"/>
21100877-04	W-35	Groundwater		10/7/2021 13:20	10/8/2021 09:30	<input type="checkbox"/>
21100877-05	SVE-5	Groundwater		10/7/2021 14:00	10/8/2021 09:30	<input type="checkbox"/>
21100877-06	SVE-7	Groundwater		10/7/2021 15:40	10/8/2021 09:30	<input type="checkbox"/>
21100877-07	Trip Blank	Water		10/7/2021	10/8/2021 09:30	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 21100877

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21100877

Case Narrative

Samples for the above noted Work Order were received on 10/08/2021. 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.

Metals:

No deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-32
Collection Date: 10/7/2021 04:20 PM

Work Order: 21100877
Lab ID: 21100877-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175				Analyst: KYM
Ethane		U	1.5	5.0	µg/L	1	10/14/2021 14:04
Ethene		U	1.7	5.0	µg/L	1	10/14/2021 14:04
Methane		U	2.0	5.0	µg/L	1	10/14/2021 14:04
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 10/12/21		Analyst: STP
Iron	0.19		0.050	0.17	mg/L	1	10/12/2021 20:01
Manganese	0.0084		0.0025	0.0083	mg/L	1	10/12/2021 20:01
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	52		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: QTN
Sulfate	13		0.19	1.0	mg/L	1	10/11/2021 18:03
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	10		0.060	0.10	mg/L	5	10/12/2021 16:49
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	4.8		0.14	0.50	mg/L	1	10/15/2021 20:10

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-33
Collection Date: 10/7/2021 03:00 PM

Work Order: 21100877
Lab ID: 21100877-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175				Analyst: KYM
Ethane	21		1.5	5.0	µg/L	1	10/14/2021 14:05
Ethene	33		1.7	5.0	µg/L	1	10/14/2021 14:05
Methane	680		20	50	µg/L	10	10/14/2021 14:17
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 10/12/21		Analyst: STP
Iron	180		0.50	1.7	mg/L	10	10/13/2021 14:02
Manganese	9.6		0.025	0.083	mg/L	10	10/13/2021 14:02
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	190		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: QTN
Sulfate	5.2		0.19	1.0	mg/L	1	10/11/2021 18:18
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.074		0.012	0.020	mg/L	1	10/12/2021 16:28
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	46		1.4	5.0	mg/L	10	10/16/2021 21:08

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-34
Collection Date: 10/7/2021 11:20 AM

Work Order: 21100877
Lab ID: 21100877-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175				Analyst: KYM
Ethane	6.0		1.5	5.0	µg/L	1	10/14/2021 14:23
Ethene	280		1.7	5.0	µg/L	1	10/14/2021 14:23
Methane	1,700		98	250	µg/L	50	10/14/2021 14:07
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 10/12/21		Analyst: STP
Iron	93		0.050	0.17	mg/L	1	10/12/2021 20:11
Manganese	6.0		0.025	0.083	mg/L	10	10/13/2021 14:04
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	140		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: QTN
Sulfate	0.64	J	0.19	1.0	mg/L	1	10/11/2021 18:34
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.076		0.012	0.020	mg/L	1	10/12/2021 16:30
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	89		1.4	5.0	mg/L	10	10/16/2021 21:53

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-35
Collection Date: 10/7/2021 01:20 PM

Work Order: 21100877
Lab ID: 21100877-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175				Analyst: KYM
Ethane	3.0	J	1.5	5.0	µg/L	1	10/14/2021 14:24
Ethene	160		1.7	5.0	µg/L	1	10/14/2021 14:24
Methane	9,600		200	500	µg/L	100	10/14/2021 14:08
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 10/12/21		Analyst: STP
Iron	35		0.050	0.17	mg/L	1	10/12/2021 20:13
Manganese	1.8		0.025	0.083	mg/L	10	10/13/2021 14:06
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	380		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: QTN
Sulfate	0.58	J	0.19	1.0	mg/L	1	10/11/2021 18:49
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.045		0.012	0.020	mg/L	1	10/12/2021 16:31
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	120		2.8	10	mg/L	20	10/16/2021 22:39

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-5
Collection Date: 10/7/2021 02:00 PM

Work Order: 21100877
Lab ID: 21100877-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER							
			Method: RSK-175				Analyst: KYM
Ethane	56		1.5	5.0	µg/L	1	10/14/2021 14:10
Ethene	46		1.7	5.0	µg/L	1	10/14/2021 14:10
Methane	8,300		200	500	µg/L	100	10/14/2021 15:01
METALS BY ICP-MS (DISSOLVED)							
			Method: SW6020B			Prep: SW3005A / 10/12/21	Analyst: STP
Iron	80		0.050	0.17	mg/L	1	10/12/2021 20:15
Manganese	4.2		0.025	0.083	mg/L	10	10/13/2021 14:07
1,4-DIOXANE BY SELECT ION MONITORING							
			Method: SW8260D				Analyst: BG
1,4-Dioxane	110		2.2	5.0	µg/L	5	10/20/2021 18:57
<i>Surr: Toluene-d8</i>	109			74-124	%REC	5	10/20/2021 18:57
ALKALINITY							
			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	190		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY							
			Method: SW9056A				Analyst: QTN
Sulfate	0.29	J	0.19	1.0	mg/L	1	10/11/2021 19:04
NITROGEN, NITRATE-NITRITE							
			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.061		0.012	0.020	mg/L	1	10/12/2021 16:32
ORGANIC CARBON, TOTAL							
			Method: SW9060A				Analyst: JB
Organic Carbon, Total	23		0.70	2.5	mg/L	5	10/16/2021 23:24

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: SVE-7
Collection Date: 10/7/2021 03:40 PM

Work Order: 21100877
Lab ID: 21100877-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
GASES IN WATER			Method: RSK-175				Analyst: KYM
Ethane	1.8	J	1.5	5.0	µg/L	1	10/14/2021 14:12
Ethene	7.8		1.7	5.0	µg/L	1	10/14/2021 14:12
Methane	45		2.0	5.0	µg/L	1	10/14/2021 14:12
METALS BY ICP-MS (DISSOLVED)			Method: SW6020B		Prep: SW3005A / 10/12/21		Analyst: STP
Iron	1.4		0.050	0.17	mg/L	1	10/12/2021 20:17
Manganese	3.9		0.025	0.083	mg/L	10	10/13/2021 14:09
ALKALINITY			Method: A2320 B-11				Analyst: QTN
Alkalinity, Total (as CaCO3)	440		8.4	10	mg/L	1	10/13/2021 18:00
ANIONS BY ION CHROMATOGRAPHY			Method: SW9056A				Analyst: QTN
Sulfate	5.2		0.19	1.0	mg/L	1	10/11/2021 19:19
NITROGEN, NITRATE-NITRITE			Method: E353.2 R2.0				Analyst: CAC
Nitrogen, Nitrate-Nitrite	0.024		0.012	0.020	mg/L	1	10/12/2021 16:33
ORGANIC CARBON, TOTAL			Method: SW9060A				Analyst: JB
Organic Carbon, Total	180		5.6	20	mg/L	40	10/17/2021 00:10

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

ALS Group, USA

Date: 21-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 10/7/2021

Work Order: 21100877
Lab ID: 21100877-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING							Analyst: BG
1,4-Dioxane	U		0.44	1.0	µg/L	1	10/20/2021 02:43
Surr: Toluene-d8	98.4			74-124	%REC	1	10/20/2021 02:43

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

Client: Gannett Fleming, Inc.
Work Order: 21100877
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R328994** Instrument ID **GC5** Method: **RSK-175**

MBLK		Sample ID: RSK BLKW1-211014-R328994				Units: µg/L		Analysis Date: 10/14/2021 01:55 PM			
Client ID:		Run ID: GC5_211014A				SeqNo: 7841152		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.5	5.0								
Ethene	U	1.7	5.0								
Methane	U	2	5.0								

LCS		Sample ID: RSK LCS1-211014-R328994				Units: µg/L		Analysis Date: 10/14/2021 01:56 PM			
Client ID:		Run ID: GC5_211014A				SeqNo: 7841153		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	41.19	1.5	5.0	36.1	0	114	75-125	0			
Ethene	38.05	1.7	5.0	33.7	0	113	75-125	0			
Methane	20.18	2	5.0	19.2	0	105	75-125	0			

MS		Sample ID: 21100877-01A MS				Units: µg/L		Analysis Date: 10/14/2021 01:59 PM			
Client ID: W-32		Run ID: GC5_211014A				SeqNo: 7841154		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	42.76	1.5	5.0	36.1	0.79	116	75-125	0			
Ethene	41.33	1.7	5.0	33.7	1.22	119	75-125	0			
Methane	21.16	2	5.0	19.2	0	110	75-125	0			

MSD		Sample ID: 21100877-01A MSD				Units: µg/L		Analysis Date: 10/14/2021 02:02 PM			
Client ID: W-32		Run ID: GC5_211014A				SeqNo: 7841155		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	40.23	1.5	5.0	36.1	0.79	109	75-125	42.76	6.1	20	
Ethene	38.88	1.7	5.0	33.7	1.22	112	75-125	41.33	6.11	20	
Methane	19.81	2	5.0	19.2	0	103	75-125	21.16	6.59	20	

The following samples were analyzed in this batch:

21100877-01A	21100877-02A	21100877-03A
21100877-04A	21100877-05A	21100877-06A

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: 185283 Instrument ID ICPMS3 Method: SW6020B

MBLK		Sample ID: MBLK-185283-185283				Units: mg/L		Analysis Date: 10/12/2021 04:48 PM			
Client ID:		Run ID: ICPMS3_211012A			SeqNo: 7832587		Prep Date: 10/12/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.05	0.080								
Manganese	U	0.0025	0.0050								

LCS		Sample ID: LCS-185283-185283				Units: mg/L		Analysis Date: 10/12/2021 04:49 PM			
Client ID:		Run ID: ICPMS3_211012A			SeqNo: 7832588		Prep Date: 10/12/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.01	0.05	0.080	10	0	100	80-120	0			
Manganese	0.1012	0.0025	0.0050	0.1	0	101	80-120	0			

MS		Sample ID: 21100877-01BMS				Units: mg/L		Analysis Date: 10/12/2021 08:03 PM			
Client ID: W-32		Run ID: ICPMS3_211012A			SeqNo: 7832861		Prep Date: 10/12/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.932	0.05	0.17	10	0.1908	97.4	75-125	0			
Manganese	0.1055	0.0025	0.0083	0.1	0.008394	97.1	75-125	0			

MSD		Sample ID: 21100877-01BMSD				Units: mg/L		Analysis Date: 10/12/2021 08:08 PM			
Client ID: W-32		Run ID: ICPMS3_211012A			SeqNo: 7832864		Prep Date: 10/12/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.861	0.05	0.17	10	0.1908	96.7	75-125	9.932	0.717	20	
Manganese	0.1043	0.0025	0.0083	0.1	0.008394	95.9	75-125	0.1055	1.14	20	

The following samples were analyzed in this batch:

21100877-01B	21100877-02B	21100877-03B
21100877-04B	21100877-05B	21100877-06B

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329317** Instrument ID **VMS7** Method: **SW8260D**

MBLK		Sample ID: 7V-BLKW2-211019-R329317				Units: µg/L		Analysis Date: 10/19/2021 09:05 PM			
Client ID:		Run ID: VMS7_211019A			SeqNo: 7855403		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								
<i>Surr: Toluene-d8</i>	4.95	0	0	5	0	99	74-124	0			

LCS		Sample ID: 7V-LCSW2-211019-R329317				Units: µg/L		Analysis Date: 10/19/2021 08:14 PM			
Client ID:		Run ID: VMS7_211019A			SeqNo: 7855401		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	38.49	0.44	1.0	40	0	96.2	70-130	0			
<i>Surr: Toluene-d8</i>	5.2	0	0	5	0	104	74-124	0			

MS		Sample ID: 21100628-29A MS				Units: µg/L		Analysis Date: 10/20/2021 03:34 A			
Client ID:		Run ID: VMS7_211019A			SeqNo: 7855425		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	40.67	0.44	1.0	40	1.12	98.9	70-130	0			HH
<i>Surr: Toluene-d8</i>	5.84	0	0	5	0	117	74-124	0			

DUP		Sample ID: 21100628-22A DUP				Units: µg/L		Analysis Date: 10/20/2021 03:17 A			
Client ID:		Run ID: VMS7_211019A			SeqNo: 7855424		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	3.77	0.44	1.0	0	0	0		2.97	23.7	30	HH
<i>Surr: Toluene-d8</i>	6.59	0	0	5	0	132	74-124	6.73	2.1	30	S

The following samples were analyzed in this batch: 21100877-05F 21100877-07A

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329410** Instrument ID **VMS7** Method: **SW8260D**

MBLK		Sample ID: 7V-BLKW1-211020-R329410				Units: µg/L		Analysis Date: 10/20/2021 02:52 PM			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858240		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								
<i>Surr: Toluene-d8</i>	4.89	0	0	5	0	97.8	74-124	0			

LCS		Sample ID: 7V-LCSW1-211020-R329410				Units: µg/L		Analysis Date: 10/20/2021 01:59 PM			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858238		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	42.9	0.44	1.0	40	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	5.18	0	0	5	0	104	74-124	0			

MS		Sample ID: 21100628-28A MS				Units: µg/L		Analysis Date: 10/20/2021 08:40 PM			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858259		Prep Date:		DF: 5	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	334.3	2.2	5.0	200	138.5	97.9	70-130	0			HH
<i>Surr: Toluene-d8</i>	27.25	0	0	25	0	109	74-124	0			

MSD		Sample ID: 21100628-28A MSD				Units: µg/L		Analysis Date: 10/20/2021 08:57 PM			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858260		Prep Date:		DF: 5	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	341.3	2.2	5.0	200	138.5	101	70-130	334.3	2.07	30	HH
<i>Surr: Toluene-d8</i>	25.85	0	0	25	0	103	74-124	27.25	5.27	30	

The following samples were analyzed in this batch: 21100877-05F

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R328718** Instrument ID **IC4** Method: **SW9056A**

MBLK		Sample ID: MBLK-R328718				Units: mg/L		Analysis Date: 10/11/2021 11:24 A			
Client ID:		Run ID: IC4_211011A				SeqNo: 7829790		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	U	0.19	1.0								

LCS		Sample ID: LCS-R328718				Units: mg/L		Analysis Date: 10/11/2021 01:14 PM			
Client ID:		Run ID: IC4_211011A				SeqNo: 7829793		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	9.258	0.19	1.0	10	0	92.6	90-110	0			

MS		Sample ID: 21100029-14C MS				Units: mg/L		Analysis Date: 10/11/2021 03:15 PM			
Client ID:		Run ID: IC4_211011A				SeqNo: 7829800		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	94.87	1.9	10	100	5.74	89.1	90-110	0			S

MSD		Sample ID: 21100029-14C MSD				Units: mg/L		Analysis Date: 10/11/2021 03:30 PM			
Client ID:		Run ID: IC4_211011A				SeqNo: 7829801		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	94.6	1.9	10	100	5.74	88.9	90-110	94.87	0.288	20	S

The following samples were analyzed in this batch:

21100877-01E	21100877-02E	21100877-03E
21100877-04E	21100877-05E	21100877-06E

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R328827B** Instrument ID **LACHAT** Method: **E353.2 R2.0**

MBLK		Sample ID: MBLK2-R328827B				Units: mg/L		Analysis Date: 10/12/2021 04:05 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834082		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	U	0.012	0.020								

LCS		Sample ID: LCS2-R328827B				Units: mg/L		Analysis Date: 10/12/2021 04:06 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834083		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	2.625	0.012	0.020	2.5	0	105	80-120	0			

MS		Sample ID: 21100867-01A MS				Units: mg/L		Analysis Date: 10/12/2021 04:22 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834097		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	3.038	0.012	0.020	2.5	0.3553	107	75-125	0			

MS		Sample ID: 21100696-02B MS				Units: mg/L		Analysis Date: 10/12/2021 04:43 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834114		Prep Date:		DF: 2	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	9.42	0.024	0.040	2.5	6.961	98.4	75-125	0			

MSD		Sample ID: 21100867-01A MSD				Units: mg/L		Analysis Date: 10/12/2021 04:26 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834100		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	3.139	0.012	0.020	2.5	0.3553	111	75-125	3.038	3.27	20	

MSD		Sample ID: 21100696-02B MSD				Units: mg/L		Analysis Date: 10/12/2021 04:44 PM			
Client ID:		Run ID: LACHAT_211012B				SeqNo: 7834115		Prep Date:		DF: 2	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate-Nitrite	9.447	0.024	0.040	2.5	6.961	99.4	75-125	9.42	0.282	20	

The following samples were analyzed in this batch:

21100877-01D	21100877-02D	21100877-03D
21100877-04D	21100877-05D	21100877-06D

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

Client: Gannett Fleming, Inc.
Work Order: 21100877
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R328925** Instrument ID **Titrator 1** Method: **A2320 B-11**

MBLK		Sample ID: MB-R328925-R328925				Units: mg/L		Analysis Date: 10/13/2021 06:00 PM			
Client ID:		Run ID: TITRATOR 1_211013A		SeqNo: 7838443		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	U	8.4	10								

LCS		Sample ID: LCS-R328925-R328925				Units: mg/L		Analysis Date: 10/13/2021 06:00 PM			
Client ID:		Run ID: TITRATOR 1_211013A		SeqNo: 7838444		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	964.9	8.4	10	1000	0	96.5	89-103		0		

The following samples were analyzed in this batch:

21100877-01E	21100877-02E	21100877-03E
21100877-04E	21100877-05E	21100877-06E

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329092b** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MB-R329092-R329092b				Units: mg/L		Analysis Date: 10/15/2021 05:44 A			
Client ID:		Run ID: TOC3_211015A				SeqNo: 7845069		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

LCS		Sample ID: LCS-R329092-R329092b				Units: mg/L		Analysis Date: 10/15/2021 06:28 A			
Client ID:		Run ID: TOC3_211015A				SeqNo: 7845070		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.709	0.14	0.50	5	0	94.2	80-120	0			

MS		Sample ID: 21100731-01E MS				Units: mg/L		Analysis Date: 10/15/2021 07:58 A			
Client ID:		Run ID: TOC3_211015A				SeqNo: 7860864		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	7.995	0.14	0.50	5	3.294	94	70-130	0			

MSD		Sample ID: 21100731-01E MSD				Units: mg/L		Analysis Date: 10/15/2021 08:42 A			
Client ID:		Run ID: TOC3_211015A				SeqNo: 7860865		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	7.933	0.14	0.50	5	3.294	92.8	70-130	7.995	0.779	20	

The following samples were analyzed in this batch:

21100877-01C	21100877-02C	21100877-03C
21100877-04C	21100877-05C	21100877-06C

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

Client: Gannett Fleming, Inc.
 Work Order: 21100877
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329128** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: CCB/mblk-R329128				Units: mg/L		Analysis Date: 10/16/2021 03:04 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846244		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

MBLK		Sample ID: MB-R329128-R329128				Units: mg/L		Analysis Date: 10/16/2021 03:04 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846281		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.14	0.50								

LCS		Sample ID: LCS-R329128				Units: mg/L		Analysis Date: 10/16/2021 03:49 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846245		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.8	0.14	0.50	5	0	96	80-120	0			

LCS		Sample ID: LCS-R329128-R329128				Units: mg/L		Analysis Date: 10/16/2021 03:49 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846282		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.8	0.14	0.50	5	0	96	80-120	0			

MS		Sample ID: 21100359-13E MS				Units: mg/L		Analysis Date: 10/16/2021 05:19 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846247		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	247.7	2.8	10	100	177.2	70.5	65-133	0			E

MSD		Sample ID: 21100359-13E MSD				Units: mg/L		Analysis Date: 10/16/2021 06:05 PM			
Client ID:		Run ID: TOC3_211016A				SeqNo: 7846248		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	250.1	2.8	10	100	177.2	73	65-133	247.7	0.996	6.16	E

The following samples were analyzed in this batch:

21100877-02C	21100877-03C	21100877-04C
21100877-05C	21100877-06C	

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

Chain of Custody Form

Page 1 of 1

COC ID: 248530

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager: **JM7**

ALS Work Order #: **21100877**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	WRR	A	PFAS 537M										
Work Order		Project Number	55929.003	B	MEE										
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C	Metals										
Send Report To		Invoice Attn	Accounts Payable	D	COO										
Address	6040 Excelsior Drive Suite 303	Address	6040 Excelsior Drive Suite 303	E	Nitrate/nites										
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	F	Alk, sulfate										
Phone	(608) 833-1500	Phone	(608) 833-1500	G	1-4, Diox										
Fax		Fax		H											
e-Mail Address		e-Mail Address		I											
				J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-2	10/7	1000	GW	-	2	X										
2	W-2A		1010			1	X										
3	W-2B		1015			1	X										
4	W-32		1620			8		X	X	X	X	X					
5	W-33		1500			1											
6	W-34		1120			1											
7	W-35		1320			1											
8	SVE-5		1400			11		X	X	X	X	X	X				
9	SVE-7		1540			8		X	X	X	X	X					
10	Trip Blank																

Sampler(s) Please Print & Sign Markus Mussey		Shipment Method FEDEX		Required Turnaround Time: (Check Box) <input type="checkbox"/> 10 BD <input type="checkbox"/> 6 BD <input type="checkbox"/> 3 BD <input type="checkbox"/> Other 2 BD <input type="checkbox"/> 1 BD				Results Due Date:						
Relinquished by:	Date: 10/7	Time: 1730	Received by:	Notes:										
Relinquished by:	Date: 10/8/21	Time: 0930	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)								
Logged by (Laboratory):	Date: 10/11/21	Time: 1200	Checked by (Laboratory):	IR1	3.2°C	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist							
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035	<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV			
										<input type="checkbox"/> Level IV SCS/CLP				
										<input type="checkbox"/> Other				

Sample Receipt Checklist

Client Name: **GANNETFLEMING - WI**

Date/Time Received: **08-Oct-21 09:30**

Work Order: **21100877**

Received by: **DS**

Checklist completed by Diane Shaw 11-Oct-21
eSignature Date

Reviewed by: Jodi Blum 12-Oct-21
eSignature Date

Matrices: Groundwater

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): 3.2/3.2 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 10/11/2021 12:03:52 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:



The analytical & QA/QC results
in the attached laboratory report
have been reviewed and
approved by AWM on 10/22/21

22-Oct-2021

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

Re: **WRR (55929.005)**

Work Order: **21101135**

Dear Anthony,

ALS Environmental received 4 samples on 12-Oct-2021 10:00 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 12.

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,

A handwritten signature in cursive script that reads "Jodi Blouw".

Electronically approved by: Bill Carey

Jodi Blouw

Report of Laboratory Analysis

Certificate No: WI: 399084510

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21101135

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21101135-01	W-6	Groundwater		10/8/2021 10:05	10/12/2021 10:00	<input type="checkbox"/>
21101135-02	W-19R	Groundwater		10/8/2021 12:10	10/12/2021 10:00	<input type="checkbox"/>
21101135-03	TW-1	Groundwater		10/8/2021 09:45	10/12/2021 10:00	<input type="checkbox"/>
21101135-04	Trip Blank	Water		10/8/2021	10/12/2021 10:00	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 21101135

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21101135

Case Narrative

The test results meet requirements of the current NELAP standards, state requirements or programs where applicable. The attached "Sample Receipt Checklist" documents the date of receipt, 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. A copy of the laboratory's scope of accreditation is available upon request.

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.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

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

Batch R329410, Method SW8260D, Sample TW-1 (21101135-03A): Surrogate high due to matrix interference.

Batch R329410, Method SW8260D, Sample W-19R (21101135-02A): Surrogate high due to matrix interference.

ALS Group, USA

Date: 22-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-6
Collection Date: 10/8/2021 10:05 AM

Work Order: 21101135
Lab ID: 21101135-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING							Analyst: BG
1,4-Dioxane	7.8		0.44	1.0	µg/L	1	10/20/2021 19:32
Surr: Toluene-d8	115			74-124	%REC	1	10/20/2021 19:32

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

ALS Group, USA

Date: 22-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: W-19R
Collection Date: 10/8/2021 12:10 PM

Work Order: 21101135
Lab ID: 21101135-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING							Analyst: BG
1,4-Dioxane	15		0.44	1.0	µg/L	1	10/20/2021 19:49
Surr: Toluene-d8	126	S		74-124	%REC	1	10/20/2021 19:49

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

ALS Group, USA

Date: 22-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: TW-1
Collection Date: 10/8/2021 09:45 AM

Work Order: 21101135
Lab ID: 21101135-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING							Analyst: MF
1,4-Dioxane	19		2.2	5.0	µg/L	5	10/21/2021 13:58
Surr: Toluene-d8	122			74-124	%REC	5	10/21/2021 13:58

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

ALS Group, USA

Date: 22-Oct-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 10/8/2021

Work Order: 21101135
Lab ID: 21101135-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING							Analyst: BG
1,4-Dioxane	3.7		0.44	1.0	µg/L	1	10/20/2021 15:50
Surr: Toluene-d8	101			74-124	%REC	1	10/20/2021 15:50

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

Client: Gannett Fleming, Inc.
Work Order: 21101135
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329410** Instrument ID **VMS7** Method: **SW8260D**

MBLK		Sample ID: 7V-BLKW1-211020-R329410				Units: µg/L		Analysis Date: 10/20/2021 02:52 P			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858240		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								
<i>Surr: Toluene-d8</i>	4.89	0	0	5	0	97.8	74-124	0			

LCS		Sample ID: 7V-LCSW1-211020-R329410				Units: µg/L		Analysis Date: 10/20/2021 01:59 P			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858238		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	42.9	0.44	1.0	40	0	107	70-130	0			
<i>Surr: Toluene-d8</i>	5.18	0	0	5	0	104	74-124	0			

MS		Sample ID: 21100628-28A MS				Units: µg/L		Analysis Date: 10/20/2021 08:40 P			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858259		Prep Date:		DF: 5	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	334.3	2.2	5.0	200	138.5	97.9	70-130	0			HH
<i>Surr: Toluene-d8</i>	27.25	0	0	25	0	109	74-124	0			

MSD		Sample ID: 21100628-28A MSD				Units: µg/L		Analysis Date: 10/20/2021 08:57 P			
Client ID:		Run ID: VMS7_211020A				SeqNo: 7858260		Prep Date:		DF: 5	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	341.3	2.2	5.0	200	138.5	101	70-130	334.3	2.07	30	HH
<i>Surr: Toluene-d8</i>	25.85	0	0	25	0	103	74-124	27.25	5.27	30	

The following samples were analyzed in this batch:

21101135-01A	21101135-02A	21101135-03A
21101135-04A		

Client: Gannett Fleming, Inc.
 Work Order: 21101135
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R329485** Instrument ID **VMS7** Method: **SW8260D**

MBLK		Sample ID: 7V-BLKW1-211021-R329485				Units: µg/L		Analysis Date: 10/21/2021 12:00 P			
Client ID:		Run ID: VMS7_211021A				SeqNo: 7861164		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								
<i>Surr: Toluene-d8</i>	5.2	0	0	5	0	104	74-124	0			

LCS		Sample ID: 7V-LCSW1-211021-R329485				Units: µg/L		Analysis Date: 10/21/2021 11:09 A			
Client ID:		Run ID: VMS7_211021A				SeqNo: 7861162		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	39.8	0.44	1.0	40	0	99.5	70-130	0			
<i>Surr: Toluene-d8</i>	5.52	0	0	5	0	110	74-124	0			

MS		Sample ID: 21100628-37A MS				Units: µg/L		Analysis Date: 10/21/2021 03:23 P			
Client ID:		Run ID: VMS7_211021A				SeqNo: 7861176		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	4690	22	50	2000	2554	107	70-130	0			HH
<i>Surr: Toluene-d8</i>	295	0	0	250	0	118	74-124	0			

MSD		Sample ID: 21100628-37A MSD				Units: µg/L		Analysis Date: 10/21/2021 03:40 P			
Client ID:		Run ID: VMS7_211021A				SeqNo: 7861177		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	4616	22	50	2000	2554	103	70-130	4690	1.61	30	HH
<i>Surr: Toluene-d8</i>	262.5	0	0	250	0	105	74-124	295	11.7	30	

The following samples were analyzed in this batch: 21101135-03A



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

FORT COLLINS, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 053514

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager: JW ALS Work Order #: 21101135

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	<u>WRR</u>	A	<u>1,4-Dioxane</u>											
Work Order		Project Number	<u>55929.005</u>	B												
Company Name	<u>Gunnert Fleming</u>	Bill To Company		C												
Send Report To	<u>Tony Miller</u>	Invoice Attn		D												
Address		Address		E												
City/State/Zip		City/State/Zip		F												
Phone		Phone		G												
Fax		Fax		H												
e-Mail Address	<u>awmiller@egsnet.com</u>	e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	<u>W-6</u>	<u>10/8</u>	<u>1005</u>	<u>GW</u>	<u>HCl</u>	<u>3</u>	<u>X</u>										
2	<u>WRR</u>	<u>↓</u>	<u>1210</u>	<u>L</u>	<u>L</u>	<u>L</u>	<u>L</u>										
3	<u>TW-1</u>	<u>↓</u>	<u>945</u>	<u>L</u>	<u>L</u>	<u>L</u>	<u>L</u>										
4	<u>Trip Blank</u>					<u>2</u>	<u>X</u>										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <u>Marcus Mussey</u>		Shipment Method <u>FedEx</u>		Turnaround Time in Business Days (BD) <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 3 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> 1 BD				Results Due Date:			
Relinquished by: <u>[Signature]</u>	Date: <u>10/11</u>	Time: <u>1500</u>	Received by: <u>FedEx</u>		Notes:						
Relinquished by: <u>FedEx</u>	Date: <u>10/12/21</u>	Time: <u>1000</u>	Received by (Laboratory): <u>[Signature]</u>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)				
Logged by (Laboratory): <u>[Signature]</u>	Date:	Time:	Checked by (Laboratory):		<u>IR</u>	<u>3.0°C</u>	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV			
							<input type="checkbox"/> Level IV SWB46/CLP				
							<input type="checkbox"/> 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.

Sample Receipt Checklist

Client Name: **GANNETT FLEMING - WI**

Date/Time Received: **12-Oct-21 10:00**

Work Order: **21101135**

Received by: **LYS**

Checklist completed by *Lydia Sweet* 13-Oct-21
eSignature Date

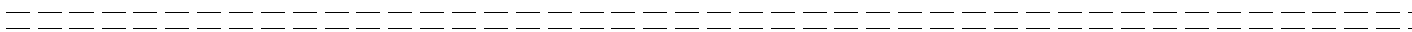
Reviewed by: *Jadi Blum* 14-Oct-21
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="3.0/3.0c"/>		<input type="text" value="IR1"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="10/13/2021 10:13:13 AM"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

The analytical & QA/QC results
in the attached laboratory report
have been reviewed and
approved by AWM on 10/20/21.



10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133



Client: Anthony Miller
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Phone: 608.836.1500

Fax: 608.831.3337

Identifier: 022SJ

Date Rec: 10/08/2021

Report Date: 10/18/2021

Client Project #: 55929.005

Client Project Name: WRR

Purchase Order #:

Test results provided for: CENSUS

Reviewed By:

A handwritten signature in black ink that reads 'Charles Slater'.

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Gannett Fleming
Project: WRR

MI Project Number: 022SJ
Date Received: 10/08/2021

Sample Information

Client Sample ID:	SVE-5	SVE-7
Sample Date:	10/07/2021	10/07/2021
Units:	cells/mL	cells/mL
Analyst/Reviewer:	HT/CS	HT/CS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	DHC	1.04E+04	2.28E+03
tceA Reductase	TCE	2.06E+02	2.15E+02
BAV1 Vinyl Chloride Reductase	BVC	5.45E+01	4.90E+00
Vinyl Chloride Reductase	VCR	8.62E+02	1.76E+01
<i>Dehalobacter spp.</i>	DHBt	3.93E+05	4.03E+05

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
 < = Result not detected

Quality Assurance/Quality Control Data

Samples Received 10/8/2021

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	10/08/2021	10/18/2021	0 °C	108%	non-detect	non-detect
BVC	10/08/2021	10/18/2021	0 °C	105%	non-detect	non-detect
TCE	10/08/2021	10/18/2021	0 °C	102%	non-detect	non-detect
VCR	10/08/2021	10/18/2021	0 °C	100%	non-detect	non-detect
DHBt	10/08/2021	10/18/2021	0 °C	113%	non-detect	non-detect

The analytical & QA/QC results
in the attached laboratory report
have been reviewed and
approved by AWM on 10/20/21.

October 19, 2021

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

RE: Project: 55929.005 WRR
Pace Project No.: 40234929

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2021. 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.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 55929.005 WRR

Pace Project No.: 40234929

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

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SAMPLE SUMMARY

Project: 55929.005 WRR

Pace Project No.: 40234929

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40234929001	W-1A	Water	10/08/21 09:15	10/12/21 09:35
40234929002	W-1D	Water	10/08/21 09:30	10/12/21 09:35
40234929003	W-6	Water	10/08/21 10:05	10/12/21 09:35
40234929004	W-7	Water	10/08/21 08:15	10/12/21 09:35
40234929005	W-7A	Water	10/08/21 08:20	10/12/21 09:35
40234929006	W-17A	Water	10/08/21 11:15	10/12/21 09:35
40234929007	W-18A	Water	10/08/21 11:45	10/12/21 09:35
40234929008	W-18A DUP	Water	10/08/21 11:50	10/12/21 09:35
40234929009	W-19R	Water	10/08/21 12:10	10/12/21 09:35
40234929010	MW-115 DUP	Water	10/08/21 10:50	10/12/21 09:35
40234929011	TW-1	Water	10/08/21 09:45	10/12/21 09:35
40234929012	RW-2	Water	10/08/21 07:20	10/12/21 09:35
40234929013	RW-5	Water	10/08/21 07:40	10/12/21 09:35
40234929014	TRIP BLANK	Water	10/08/21 00:00	10/12/21 09:35
40234929015	WELL SAMP RINSE DRUM	Water	10/08/21 07:10	10/12/21 09:35
40234929016	DW-1	Water	10/08/21 13:10	10/12/21 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 55929.005 WRR
Pace Project No.: 40234929

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40234929001	W-1A	EPA 8260	LAP	69
40234929002	W-1D	EPA 8260	LAP	69
40234929003	W-6	EPA 8260	LAP	69
40234929004	W-7	EPA 8260	LAP	69
40234929005	W-7A	EPA 8260	LAP	69
40234929006	W-17A	EPA 8260	LAP	69
40234929007	W-18A	EPA 8260	LAP	69
40234929008	W-18A DUP	EPA 8260	LAP	69
40234929009	W-19R	EPA 8260	LAP	69
40234929010	MW-115 DUP	EPA 8260	LAP	69
40234929011	TW-1	EPA 8260	LAP	69
40234929012	RW-2	EPA 8260	LAP	69
40234929013	RW-5	EPA 8260	LAP	69
40234929014	TRIP BLANK	EPA 8260	LAP	69
40234929015	WELL SAMP RINSE DRUM	EPA 8260	LAP	69
40234929016	DW-1	EPA 8260	LAP	69

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234929

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40234929001	W-1A					
EPA 8260	1,1-Dichloroethane	0.64J	ug/L	1.0	10/14/21 20:15	
EPA 8260	2-Propanol	71.5J	ug/L	100	10/14/21 20:15	
EPA 8260	Ethylbenzene	0.53J	ug/L	1.0	10/14/21 20:15	
EPA 8260	Toluene	0.39J	ug/L	1.0	10/14/21 20:15	
EPA 8260	Vinyl chloride	0.65J	ug/L	1.0	10/14/21 20:15	
EPA 8260	Xylene (Total)	1.1J	ug/L	3.0	10/14/21 20:15	
EPA 8260	cis-1,2-Dichloroethene	0.67J	ug/L	1.0	10/14/21 20:15	
EPA 8260	m&p-Xylene	0.80J	ug/L	2.0	10/14/21 20:15	
40234929002	W-1D					
EPA 8260	1,1-Dichloroethane	1.6	ug/L	1.0	10/14/21 19:19	
EPA 8260	1,2-Dichloroethane	0.32J	ug/L	1.0	10/14/21 19:19	
EPA 8260	2-Propanol	16.5J	ug/L	100	10/14/21 19:19	
EPA 8260	Vinyl chloride	0.70J	ug/L	1.0	10/14/21 19:19	
EPA 8260	cis-1,2-Dichloroethene	0.47J	ug/L	1.0	10/14/21 19:19	
40234929003	W-6					
EPA 8260	1,1,1-Trichloroethane	1.9	ug/L	1.0	10/14/21 19:37	
EPA 8260	1,1-Dichloroethane	26.7	ug/L	1.0	10/14/21 19:37	
EPA 8260	1,1-Dichloroethene	0.65J	ug/L	1.0	10/14/21 19:37	
EPA 8260	1,2-Dichlorobenzene	0.73J	ug/L	1.0	10/14/21 19:37	
EPA 8260	2-Propanol	14.1J	ug/L	100	10/14/21 19:37	
EPA 8260	Chloroethane	7.0	ug/L	5.0	10/14/21 19:37	
EPA 8260	Methylene Chloride	3.3J	ug/L	5.0	10/14/21 19:37	
EPA 8260	Tetrachloroethene	4.6	ug/L	1.0	10/14/21 19:37	
EPA 8260	Trichloroethene	5.0	ug/L	1.0	10/14/21 19:37	
EPA 8260	Vinyl chloride	2.1	ug/L	1.0	10/14/21 19:37	
EPA 8260	cis-1,2-Dichloroethene	17.1	ug/L	1.0	10/14/21 19:37	
EPA 8260	trans-1,2-Dichloroethene	0.59J	ug/L	1.0	10/14/21 19:37	
40234929004	W-7					
EPA 8260	1,1,1-Trichloroethane	1.6	ug/L	1.0	10/14/21 10:32	
EPA 8260	2-Propanol	133	ug/L	100	10/14/21 10:32	
EPA 8260	Tetrachloroethene	3.8	ug/L	1.0	10/14/21 10:32	
EPA 8260	Trichloroethene	5.7	ug/L	1.0	10/14/21 10:32	
40234929005	W-7A					
EPA 8260	1,1,1-Trichloroethane	0.49J	ug/L	1.0	10/14/21 10:51	
EPA 8260	2-Propanol	19.2J	ug/L	100	10/14/21 10:51	
EPA 8260	Tetrachloroethene	31.4	ug/L	1.0	10/14/21 10:51	
40234929006	W-17A					
EPA 8260	1,1-Dichloroethane	84.7	ug/L	10.0	10/14/21 13:38	
EPA 8260	1,2-Dichloroethane	2.9J	ug/L	10.0	10/14/21 13:38	
EPA 8260	2-Butanone (MEK)	138J	ug/L	250	10/14/21 13:38	
EPA 8260	2-Propanol	550J	ug/L	1000	10/14/21 13:38	
EPA 8260	4-Methyl-2-pentanone (MIBK)	980	ug/L	250	10/14/21 13:38	
EPA 8260	Acetone	498	ug/L	250	10/14/21 13:38	
EPA 8260	Benzene	17.1	ug/L	10.0	10/14/21 13:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR
Pace Project No.: 40234929

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234929006	W-17A					
EPA 8260	Chloroethane	1840	ug/L	50.0	10/14/21 13:38	
EPA 8260	Toluene	1290	ug/L	10.0	10/14/21 13:38	
EPA 8260	Vinyl chloride	5.2J	ug/L	10.0	10/14/21 13:38	
EPA 8260	trans-1,2-Dichloroethene	14.3	ug/L	10.0	10/14/21 13:38	
40234929007	W-18A					
EPA 8260	1,1-Dichloroethane	4.8	ug/L	1.0	10/14/21 11:09	
EPA 8260	1,2,4-Trimethylbenzene	2.9	ug/L	1.0	10/14/21 11:09	
EPA 8260	1,2-Dichloroethane	0.49J	ug/L	1.0	10/14/21 11:09	
EPA 8260	2-Propanol	14.8J	ug/L	100	10/14/21 11:09	
EPA 8260	Benzene	0.76J	ug/L	1.0	10/14/21 11:09	
EPA 8260	Chloroethane	16.8	ug/L	5.0	10/14/21 11:09	
EPA 8260	Ethylbenzene	7.3	ug/L	1.0	10/14/21 11:09	
EPA 8260	Methylene Chloride	0.77J	ug/L	5.0	10/14/21 11:09	
EPA 8260	Toluene	4.7	ug/L	1.0	10/14/21 11:09	
EPA 8260	Trichloroethene	0.32J	ug/L	1.0	10/14/21 11:09	
EPA 8260	Vinyl chloride	2.0	ug/L	1.0	10/14/21 11:09	
EPA 8260	Xylene (Total)	24.5	ug/L	3.0	10/14/21 11:09	
EPA 8260	cis-1,2-Dichloroethene	4.5	ug/L	1.0	10/14/21 11:09	
EPA 8260	m&p-Xylene	15.1	ug/L	2.0	10/14/21 11:09	
EPA 8260	o-Xylene	9.4	ug/L	1.0	10/14/21 11:09	
EPA 8260	trans-1,2-Dichloroethene	0.73J	ug/L	1.0	10/14/21 11:09	
40234929008	W-18A DUP					
EPA 8260	1,1-Dichloroethane	4.9	ug/L	1.0	10/14/21 11:28	
EPA 8260	1,2,4-Trimethylbenzene	3.1	ug/L	1.0	10/14/21 11:28	
EPA 8260	1,2-Dichloroethane	0.64J	ug/L	1.0	10/14/21 11:28	
EPA 8260	Benzene	0.78J	ug/L	1.0	10/14/21 11:28	
EPA 8260	Chloroethane	16.8	ug/L	5.0	10/14/21 11:28	
EPA 8260	Ethylbenzene	7.4	ug/L	1.0	10/14/21 11:28	
EPA 8260	Methylene Chloride	0.67J	ug/L	5.0	10/14/21 11:28	
EPA 8260	Toluene	4.7	ug/L	1.0	10/14/21 11:28	
EPA 8260	Trichloroethene	0.33J	ug/L	1.0	10/14/21 11:28	
EPA 8260	Vinyl chloride	2.0	ug/L	1.0	10/14/21 11:28	
EPA 8260	Xylene (Total)	25.1	ug/L	3.0	10/14/21 11:28	
EPA 8260	cis-1,2-Dichloroethene	4.5	ug/L	1.0	10/14/21 11:28	
EPA 8260	m&p-Xylene	15.4	ug/L	2.0	10/14/21 11:28	
EPA 8260	o-Xylene	9.6	ug/L	1.0	10/14/21 11:28	
EPA 8260	trans-1,2-Dichloroethene	0.85J	ug/L	1.0	10/14/21 11:28	
40234929009	W-19R					
EPA 8260	1,1-Dichloroethane	8.2	ug/L	5.0	10/14/21 20:33	
EPA 8260	1,2-Dichloroethane	1.9J	ug/L	5.0	10/14/21 20:33	
EPA 8260	Benzene	20.7	ug/L	5.0	10/14/21 20:33	
EPA 8260	Chlorobenzene	4.4J	ug/L	5.0	10/14/21 20:33	
EPA 8260	Chloroethane	86.2	ug/L	25.0	10/14/21 20:33	
EPA 8260	Ethylbenzene	1110	ug/L	5.0	10/14/21 20:33	
EPA 8260	Toluene	4.4J	ug/L	5.0	10/14/21 20:33	
EPA 8260	Xylene (Total)	1500	ug/L	15.0	10/14/21 20:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234929

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234929009	W-19R					
EPA 8260	m&p-Xylene	1140	ug/L	10.0	10/14/21 20:33	
EPA 8260	o-Xylene	360	ug/L	5.0	10/14/21 20:33	
40234929010	MW-115 DUP					
EPA 8260	1,1-Dichloroethane	50.8	ug/L	4.0	10/14/21 14:15	
EPA 8260	1,1-Dichloroethene	5.8	ug/L	4.0	10/14/21 14:15	
EPA 8260	1,2-Dichloroethane	36.7	ug/L	4.0	10/14/21 14:15	
EPA 8260	Benzene	4.5	ug/L	4.0	10/14/21 14:15	
EPA 8260	Chloroethane	806	ug/L	20.0	10/14/21 14:15	
EPA 8260	Toluene	66.6	ug/L	4.0	10/14/21 14:15	
EPA 8260	Trichloroethene	2.2J	ug/L	4.0	10/14/21 14:15	
EPA 8260	Vinyl chloride	29.7	ug/L	4.0	10/14/21 14:15	
EPA 8260	cis-1,2-Dichloroethene	76.1	ug/L	4.0	10/14/21 14:15	
EPA 8260	o-Xylene	1.6J	ug/L	4.0	10/14/21 14:15	
EPA 8260	trans-1,2-Dichloroethene	25.0	ug/L	4.0	10/14/21 14:15	
40234929011	TW-1					
EPA 8260	1,1,1-Trichloroethane	5.3J	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,1-Dichloroethane	290	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,2,4-Trimethylbenzene	570	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,2-Dichlorobenzene	25.7	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,2-Dichloroethane	14.3	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,2-Dichloropropane	7.2J	ug/L	10.0	10/14/21 14:34	
EPA 8260	1,3,5-Trimethylbenzene	96.7	ug/L	10.0	10/14/21 14:34	
EPA 8260	Benzene	5.0J	ug/L	10.0	10/14/21 14:34	
EPA 8260	Chloroethane	167	ug/L	50.0	10/14/21 14:34	
EPA 8260	Ethylbenzene	1820	ug/L	10.0	10/14/21 14:34	
EPA 8260	Isopropylbenzene (Cumene)	59.3	ug/L	50.0	10/14/21 14:34	
EPA 8260	Naphthalene	49.5J	ug/L	50.0	10/14/21 14:34	
EPA 8260	Toluene	1100	ug/L	10.0	10/14/21 14:34	
EPA 8260	Vinyl chloride	126	ug/L	10.0	10/14/21 14:34	
EPA 8260	Xylene (Total)	6640	ug/L	30.0	10/14/21 14:34	
EPA 8260	cis-1,2-Dichloroethene	176	ug/L	10.0	10/14/21 14:34	
EPA 8260	m&p-Xylene	5110	ug/L	20.0	10/14/21 14:34	
EPA 8260	n-Propylbenzene	86.7	ug/L	10.0	10/14/21 14:34	
EPA 8260	o-Xylene	1530	ug/L	10.0	10/14/21 14:34	
40234929012	RW-2					
EPA 8260	1,1-Dichloroethane	3.1	ug/L	1.0	10/14/21 19:56	
EPA 8260	1,2,4-Trimethylbenzene	0.85J	ug/L	1.0	10/14/21 19:56	
EPA 8260	2-Butanone (MEK)	24.9J	ug/L	25.0	10/14/21 19:56	
EPA 8260	2-Propanol	670	ug/L	100	10/14/21 19:56	
EPA 8260	Acetone	182	ug/L	25.0	10/14/21 19:56	
EPA 8260	Ethylbenzene	6.0	ug/L	1.0	10/14/21 19:56	
EPA 8260	Tetrachloroethene	0.95J	ug/L	1.0	10/14/21 19:56	
EPA 8260	Toluene	35.8	ug/L	1.0	10/14/21 19:56	
EPA 8260	Xylene (Total)	16.0	ug/L	3.0	10/14/21 19:56	
EPA 8260	m&p-Xylene	9.5	ug/L	2.0	10/14/21 19:56	
EPA 8260	o-Xylene	6.5	ug/L	1.0	10/14/21 19:56	

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234929

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40234929013	RW-5					
EPA 8260	1,1,1-Trichloroethane	14.6	ug/L	1.0	10/14/21 11:46	
EPA 8260	1,1,2-Trichloroethane	0.50J	ug/L	5.0	10/14/21 11:46	
EPA 8260	1,1-Dichloroethane	28.6	ug/L	1.0	10/14/21 11:46	
EPA 8260	Methyl-tert-butyl ether	4.4J	ug/L	5.0	10/14/21 11:46	
EPA 8260	Methylene Chloride	1.7J	ug/L	5.0	10/14/21 11:46	
EPA 8260	Tetrachloroethene	16.0	ug/L	1.0	10/14/21 11:46	
EPA 8260	Trichloroethene	9.4	ug/L	1.0	10/14/21 11:46	
EPA 8260	Vinyl chloride	0.35J	ug/L	1.0	10/14/21 11:46	
EPA 8260	cis-1,2-Dichloroethene	41.2	ug/L	1.0	10/14/21 11:46	
40234929016	DW-1					
EPA 8260	2-Propanol	48.7J	ug/L	100	10/14/21 12:24	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-1A **Lab ID: 40234929001** Collected: 10/08/21 09:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 20:15	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 20:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 20:15	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 20:15	79-00-5	
1,1-Dichloroethane	0.64J	ug/L	1.0	0.30	1		10/14/21 20:15	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 20:15	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 20:15	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 20:15	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 20:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 20:15	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 20:15	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 20:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 20:15	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 20:15	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 20:15	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 20:15	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 20:15	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 20:15	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 20:15	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 20:15	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 20:15	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 20:15	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 20:15	95-49-8	
2-Propanol	71.5J	ug/L	100	9.9	1		10/14/21 20:15	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 20:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 20:15	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 20:15	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 20:15	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 20:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 20:15	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 20:15	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 20:15	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 20:15	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 20:15	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 20:15	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 20:15	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 20:15	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 20:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 20:15	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 20:15	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 20:15	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 20:15	108-20-3	
Ethylbenzene	0.53J	ug/L	1.0	0.33	1		10/14/21 20:15	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 20:15	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 20:15	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-1A **Lab ID: 40234929001** Collected: 10/08/21 09:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 20:15	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 20:15	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 20:15	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 20:15	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 20:15	127-18-4	
Toluene	0.39J	ug/L	1.0	0.29	1		10/14/21 20:15	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 20:15	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 20:15	75-69-4	
Vinyl chloride	0.65J	ug/L	1.0	0.17	1		10/14/21 20:15	75-01-4	
Xylene (Total)	1.1J	ug/L	3.0	1.0	1		10/14/21 20:15	1330-20-7	
cis-1,2-Dichloroethene	0.67J	ug/L	1.0	0.47	1		10/14/21 20:15	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 20:15	10061-01-5	
m&p-Xylene	0.80J	ug/L	2.0	0.70	1		10/14/21 20:15	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 20:15	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 20:15	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 20:15	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 20:15	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 20:15	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 20:15	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 20:15	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 20:15	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		10/14/21 20:15	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		10/14/21 20:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 20:15	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-1D **Lab ID: 40234929002** Collected: 10/08/21 09:30 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 19:19	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 19:19	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 19:19	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 19:19	79-00-5	
1,1-Dichloroethane	1.6	ug/L	1.0	0.30	1		10/14/21 19:19	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 19:19	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 19:19	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:19	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 19:19	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 19:19	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 19:19	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 19:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 19:19	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 19:19	95-50-1	
1,2-Dichloroethane	0.32J	ug/L	1.0	0.29	1		10/14/21 19:19	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 19:19	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:19	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:19	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 19:19	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 19:19	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 19:19	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 19:19	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:19	95-49-8	
2-Propanol	16.5J	ug/L	100	9.9	1		10/14/21 19:19	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:19	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 19:19	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 19:19	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 19:19	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 19:19	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:19	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 19:19	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 19:19	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 19:19	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:19	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 19:19	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 19:19	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 19:19	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 19:19	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 19:19	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 19:19	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:19	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 19:19	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 19:19	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 19:19	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-1D **Lab ID: 40234929002** Collected: 10/08/21 09:30 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:19	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 19:19	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 19:19	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:19	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 19:19	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 19:19	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 19:19	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:19	75-69-4	
Vinyl chloride	0.70J	ug/L	1.0	0.17	1		10/14/21 19:19	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 19:19	1330-20-7	
cis-1,2-Dichloroethene	0.47J	ug/L	1.0	0.47	1		10/14/21 19:19	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:19	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 19:19	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:19	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:19	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:19	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:19	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 19:19	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 19:19	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 19:19	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 19:19	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		10/14/21 19:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		10/14/21 19:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/21 19:19	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-6 **Lab ID: 40234929003** Collected: 10/08/21 10:05 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 19:37	630-20-6	
1,1,1-Trichloroethane	1.9	ug/L	1.0	0.30	1		10/14/21 19:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 19:37	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 19:37	79-00-5	
1,1-Dichloroethane	26.7	ug/L	1.0	0.30	1		10/14/21 19:37	75-34-3	
1,1-Dichloroethene	0.65J	ug/L	1.0	0.58	1		10/14/21 19:37	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 19:37	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:37	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 19:37	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 19:37	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 19:37	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 19:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 19:37	106-93-4	
1,2-Dichlorobenzene	0.73J	ug/L	1.0	0.33	1		10/14/21 19:37	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 19:37	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 19:37	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:37	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:37	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 19:37	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 19:37	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 19:37	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 19:37	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:37	95-49-8	
2-Propanol	14.1J	ug/L	100	9.9	1		10/14/21 19:37	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 19:37	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 19:37	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 19:37	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 19:37	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 19:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 19:37	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 19:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:37	108-90-7	
Chloroethane	7.0	ug/L	5.0	1.4	1		10/14/21 19:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 19:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 19:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 19:37	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 19:37	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 19:37	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:37	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 19:37	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 19:37	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 19:37	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-6 **Lab ID: 40234929003** Collected: 10/08/21 10:05 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:37	1634-04-4	
Methylene Chloride	3.3J	ug/L	5.0	0.32	1		10/14/21 19:37	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 19:37	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:37	100-42-5	
Tetrachloroethene	4.6	ug/L	1.0	0.41	1		10/14/21 19:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 19:37	108-88-3	
Trichloroethene	5.0	ug/L	1.0	0.32	1		10/14/21 19:37	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:37	75-69-4	
Vinyl chloride	2.1	ug/L	1.0	0.17	1		10/14/21 19:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 19:37	1330-20-7	
cis-1,2-Dichloroethene	17.1	ug/L	1.0	0.47	1		10/14/21 19:37	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:37	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 19:37	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:37	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:37	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:37	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:37	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 19:37	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 19:37	98-06-6	
trans-1,2-Dichloroethene	0.59J	ug/L	1.0	0.53	1		10/14/21 19:37	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 19:37	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		10/14/21 19:37	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		10/14/21 19:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 19:37	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-7 **Lab ID: 40234929004** Collected: 10/08/21 08:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 10:32	630-20-6	
1,1,1-Trichloroethane	1.6	ug/L	1.0	0.30	1		10/14/21 10:32	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 10:32	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 10:32	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:32	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 10:32	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 10:32	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:32	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 10:32	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 10:32	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 10:32	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 10:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 10:32	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:32	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 10:32	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 10:32	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:32	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:32	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:32	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 10:32	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 10:32	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 10:32	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:32	95-49-8	
2-Propanol	133	ug/L	100	9.9	1		10/14/21 10:32	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:32	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 10:32	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 10:32	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 10:32	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 10:32	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:32	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 10:32	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 10:32	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 10:32	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:32	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 10:32	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 10:32	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 10:32	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 10:32	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 10:32	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 10:32	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:32	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:32	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 10:32	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 10:32	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-7 **Lab ID: 40234929004** Collected: 10/08/21 08:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:32	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 10:32	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 10:32	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:32	100-42-5	
Tetrachloroethene	3.8	ug/L	1.0	0.41	1		10/14/21 10:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 10:32	108-88-3	
Trichloroethene	5.7	ug/L	1.0	0.32	1		10/14/21 10:32	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 10:32	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 10:32	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 10:32	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:32	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 10:32	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:32	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:32	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:32	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:32	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 10:32	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 10:32	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 10:32	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 10:32	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		10/14/21 10:32	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/14/21 10:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/14/21 10:32	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-7A **Lab ID: 40234929005** Collected: 10/08/21 08:20 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 10:51	630-20-6	
1,1,1-Trichloroethane	0.49J	ug/L	1.0	0.30	1		10/14/21 10:51	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 10:51	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 10:51	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:51	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 10:51	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 10:51	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:51	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 10:51	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 10:51	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 10:51	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 10:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 10:51	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:51	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 10:51	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 10:51	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:51	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:51	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:51	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 10:51	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 10:51	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 10:51	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:51	95-49-8	
2-Propanol	19.2J	ug/L	100	9.9	1		10/14/21 10:51	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:51	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 10:51	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 10:51	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 10:51	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 10:51	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:51	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 10:51	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 10:51	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 10:51	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:51	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 10:51	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 10:51	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 10:51	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 10:51	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 10:51	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 10:51	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:51	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:51	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 10:51	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 10:51	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-7A **Lab ID: 40234929005** Collected: 10/08/21 08:20 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:51	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 10:51	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 10:51	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:51	100-42-5	
Tetrachloroethene	31.4	ug/L	1.0	0.41	1		10/14/21 10:51	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 10:51	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 10:51	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:51	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 10:51	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 10:51	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 10:51	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:51	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 10:51	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:51	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:51	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:51	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:51	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 10:51	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 10:51	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 10:51	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 10:51	10061-02-6	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		10/14/21 10:51	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 10:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/14/21 10:51	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-17A **Lab ID: 40234929006** Collected: 10/08/21 11:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		10/14/21 13:38	630-20-6	
1,1,1-Trichloroethane	<3.0	ug/L	10.0	3.0	10		10/14/21 13:38	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		10/14/21 13:38	79-34-5	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		10/14/21 13:38	79-00-5	
1,1-Dichloroethane	84.7	ug/L	10.0	3.0	10		10/14/21 13:38	75-34-3	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		10/14/21 13:38	75-35-4	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		10/14/21 13:38	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		10/14/21 13:38	87-61-6	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		10/14/21 13:38	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		10/14/21 13:38	120-82-1	
1,2,4-Trimethylbenzene	<4.5	ug/L	10.0	4.5	10		10/14/21 13:38	95-63-6	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		10/14/21 13:38	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		10/14/21 13:38	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		10/14/21 13:38	95-50-1	
1,2-Dichloroethane	2.9J	ug/L	10.0	2.9	10		10/14/21 13:38	107-06-2	
1,2-Dichloropropane	<4.5	ug/L	10.0	4.5	10		10/14/21 13:38	78-87-5	
1,3,5-Trimethylbenzene	<3.6	ug/L	10.0	3.6	10		10/14/21 13:38	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		10/14/21 13:38	541-73-1	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		10/14/21 13:38	142-28-9	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		10/14/21 13:38	106-46-7	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		10/14/21 13:38	594-20-7	
2-Butanone (MEK)	138J	ug/L	250	65.2	10		10/14/21 13:38	78-93-3	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/14/21 13:38	95-49-8	
2-Propanol	550J	ug/L	1000	98.5	10		10/14/21 13:38	67-63-0	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/14/21 13:38	106-43-4	
4-Methyl-2-pentanone (MIBK)	980	ug/L	250	59.5	10		10/14/21 13:38	108-10-1	
Acetone	498	ug/L	250	86.4	10		10/14/21 13:38	67-64-1	
Benzene	17.1	ug/L	10.0	3.0	10		10/14/21 13:38	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		10/14/21 13:38	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		10/14/21 13:38	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		10/14/21 13:38	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		10/14/21 13:38	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		10/14/21 13:38	74-83-9	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		10/14/21 13:38	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		10/14/21 13:38	108-90-7	
Chloroethane	1840	ug/L	50.0	13.8	10		10/14/21 13:38	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		10/14/21 13:38	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		10/14/21 13:38	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		10/14/21 13:38	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		10/14/21 13:38	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		10/14/21 13:38	75-71-8	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		10/14/21 13:38	108-20-3	
Ethylbenzene	<3.3	ug/L	10.0	3.3	10		10/14/21 13:38	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		10/14/21 13:38	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	50.0	10.0	10		10/14/21 13:38	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR
Pace Project No.: 40234929

Sample: W-17A **Lab ID: 40234929006** Collected: 10/08/21 11:15 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		10/14/21 13:38	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		10/14/21 13:38	75-09-2	
Naphthalene	<11.3	ug/L	50.0	11.3	10		10/14/21 13:38	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		10/14/21 13:38	100-42-5	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		10/14/21 13:38	127-18-4	
Toluene	1290	ug/L	10.0	2.9	10		10/14/21 13:38	108-88-3	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		10/14/21 13:38	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		10/14/21 13:38	75-69-4	
Vinyl chloride	5.2J	ug/L	10.0	1.7	10		10/14/21 13:38	75-01-4	
Xylene (Total)	<10.5	ug/L	30.0	10.5	10		10/14/21 13:38	1330-20-7	
cis-1,2-Dichloroethene	<4.7	ug/L	10.0	4.7	10		10/14/21 13:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		10/14/21 13:38	10061-01-5	
m&p-Xylene	<7.0	ug/L	20.0	7.0	10		10/14/21 13:38	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		10/14/21 13:38	104-51-8	
n-Propylbenzene	<3.5	ug/L	10.0	3.5	10		10/14/21 13:38	103-65-1	
o-Xylene	<3.5	ug/L	10.0	3.5	10		10/14/21 13:38	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		10/14/21 13:38	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		10/14/21 13:38	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		10/14/21 13:38	98-06-6	
trans-1,2-Dichloroethene	14.3	ug/L	10.0	5.3	10		10/14/21 13:38	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		10/14/21 13:38	10061-02-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		10		10/14/21 13:38	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		10		10/14/21 13:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		10		10/14/21 13:38	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-18A **Lab ID: 40234929007** Collected: 10/08/21 11:45 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 11:09	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:09	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 11:09	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 11:09	79-00-5	
1,1-Dichloroethane	4.8	ug/L	1.0	0.30	1		10/14/21 11:09	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 11:09	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:09	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:09	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 11:09	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 11:09	120-82-1	
1,2,4-Trimethylbenzene	2.9	ug/L	1.0	0.45	1		10/14/21 11:09	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 11:09	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 11:09	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:09	95-50-1	
1,2-Dichloroethane	0.49J	ug/L	1.0	0.29	1		10/14/21 11:09	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 11:09	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:09	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:09	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:09	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 11:09	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 11:09	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 11:09	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:09	95-49-8	
2-Propanol	14.8J	ug/L	100	9.9	1		10/14/21 11:09	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:09	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 11:09	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 11:09	67-64-1	
Benzene	0.76J	ug/L	1.0	0.30	1		10/14/21 11:09	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 11:09	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:09	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 11:09	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 11:09	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 11:09	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:09	108-90-7	
Chloroethane	16.8	ug/L	5.0	1.4	1		10/14/21 11:09	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 11:09	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 11:09	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 11:09	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 11:09	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 11:09	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:09	108-20-3	
Ethylbenzene	7.3	ug/L	1.0	0.33	1		10/14/21 11:09	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 11:09	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 11:09	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-18A **Lab ID: 40234929007** Collected: 10/08/21 11:45 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:09	1634-04-4	
Methylene Chloride	0.77J	ug/L	5.0	0.32	1		10/14/21 11:09	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 11:09	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:09	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:09	127-18-4	
Toluene	4.7	ug/L	1.0	0.29	1		10/14/21 11:09	108-88-3	
Trichloroethene	0.32J	ug/L	1.0	0.32	1		10/14/21 11:09	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:09	75-69-4	
Vinyl chloride	2.0	ug/L	1.0	0.17	1		10/14/21 11:09	75-01-4	
Xylene (Total)	24.5	ug/L	3.0	1.0	1		10/14/21 11:09	1330-20-7	
cis-1,2-Dichloroethene	4.5	ug/L	1.0	0.47	1		10/14/21 11:09	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:09	10061-01-5	
m&p-Xylene	15.1	ug/L	2.0	0.70	1		10/14/21 11:09	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:09	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:09	103-65-1	
o-Xylene	9.4	ug/L	1.0	0.35	1		10/14/21 11:09	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:09	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 11:09	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 11:09	98-06-6	
trans-1,2-Dichloroethene	0.73J	ug/L	1.0	0.53	1		10/14/21 11:09	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 11:09	10061-02-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		10/14/21 11:09	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/14/21 11:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/14/21 11:09	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-18A DUP **Lab ID: 40234929008** Collected: 10/08/21 11:50 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 11:28	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:28	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 11:28	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 11:28	79-00-5	
1,1-Dichloroethane	4.9	ug/L	1.0	0.30	1		10/14/21 11:28	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 11:28	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:28	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:28	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 11:28	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 11:28	120-82-1	
1,2,4-Trimethylbenzene	3.1	ug/L	1.0	0.45	1		10/14/21 11:28	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 11:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 11:28	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:28	95-50-1	
1,2-Dichloroethane	0.64J	ug/L	1.0	0.29	1		10/14/21 11:28	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 11:28	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:28	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:28	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:28	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 11:28	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 11:28	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 11:28	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:28	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/14/21 11:28	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:28	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 11:28	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 11:28	67-64-1	
Benzene	0.78J	ug/L	1.0	0.30	1		10/14/21 11:28	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:28	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 11:28	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:28	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 11:28	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 11:28	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 11:28	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:28	108-90-7	
Chloroethane	16.8	ug/L	5.0	1.4	1		10/14/21 11:28	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 11:28	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 11:28	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 11:28	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 11:28	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 11:28	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:28	108-20-3	
Ethylbenzene	7.4	ug/L	1.0	0.33	1		10/14/21 11:28	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 11:28	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 11:28	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-18A DUP **Lab ID: 40234929008** Collected: 10/08/21 11:50 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:28	1634-04-4	
Methylene Chloride	0.67J	ug/L	5.0	0.32	1		10/14/21 11:28	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 11:28	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:28	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:28	127-18-4	
Toluene	4.7	ug/L	1.0	0.29	1		10/14/21 11:28	108-88-3	
Trichloroethene	0.33J	ug/L	1.0	0.32	1		10/14/21 11:28	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:28	75-69-4	
Vinyl chloride	2.0	ug/L	1.0	0.17	1		10/14/21 11:28	75-01-4	
Xylene (Total)	25.1	ug/L	3.0	1.0	1		10/14/21 11:28	1330-20-7	
cis-1,2-Dichloroethene	4.5	ug/L	1.0	0.47	1		10/14/21 11:28	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:28	10061-01-5	
m&p-Xylene	15.4	ug/L	2.0	0.70	1		10/14/21 11:28	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:28	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:28	103-65-1	
o-Xylene	9.6	ug/L	1.0	0.35	1		10/14/21 11:28	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:28	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 11:28	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 11:28	98-06-6	
trans-1,2-Dichloroethene	0.85J	ug/L	1.0	0.53	1		10/14/21 11:28	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 11:28	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		10/14/21 11:28	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 11:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 11:28	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-19R **Lab ID: 40234929009** Collected: 10/08/21 12:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	630-20-6	
1,1,1-Trichloroethane	<1.5	ug/L	5.0	1.5	5		10/14/21 20:33	71-55-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/L	5.0	1.9	5		10/14/21 20:33	79-34-5	
1,1,2-Trichloroethane	<1.7	ug/L	25.0	1.7	5		10/14/21 20:33	79-00-5	
1,1-Dichloroethane	8.2	ug/L	5.0	1.5	5		10/14/21 20:33	75-34-3	
1,1-Dichloroethene	<2.9	ug/L	5.0	2.9	5		10/14/21 20:33	75-35-4	
1,1-Dichloropropene	<2.1	ug/L	5.0	2.1	5		10/14/21 20:33	563-58-6	
1,2,3-Trichlorobenzene	<5.1	ug/L	25.0	5.1	5		10/14/21 20:33	87-61-6	
1,2,3-Trichloropropane	<2.8	ug/L	25.0	2.8	5		10/14/21 20:33	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		10/14/21 20:33	120-82-1	
1,2,4-Trimethylbenzene	<2.2	ug/L	5.0	2.2	5		10/14/21 20:33	95-63-6	
1,2-Dibromo-3-chloropropane	<11.8	ug/L	25.0	11.8	5		10/14/21 20:33	96-12-8	
1,2-Dibromoethane (EDB)	<1.5	ug/L	5.0	1.5	5		10/14/21 20:33	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/L	5.0	1.6	5		10/14/21 20:33	95-50-1	
1,2-Dichloroethane	1.9J	ug/L	5.0	1.5	5		10/14/21 20:33	107-06-2	
1,2-Dichloropropane	<2.2	ug/L	5.0	2.2	5		10/14/21 20:33	78-87-5	
1,3,5-Trimethylbenzene	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	108-67-8	
1,3-Dichlorobenzene	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	541-73-1	
1,3-Dichloropropane	<1.5	ug/L	5.0	1.5	5		10/14/21 20:33	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/L	5.0	4.5	5		10/14/21 20:33	106-46-7	
2,2-Dichloropropane	<20.9	ug/L	25.0	20.9	5		10/14/21 20:33	594-20-7	
2-Butanone (MEK)	<32.6	ug/L	125	32.6	5		10/14/21 20:33	78-93-3	
2-Chlorotoluene	<4.4	ug/L	25.0	4.4	5		10/14/21 20:33	95-49-8	
2-Propanol	<49.3	ug/L	500	49.3	5		10/14/21 20:33	67-63-0	
4-Chlorotoluene	<4.5	ug/L	25.0	4.5	5		10/14/21 20:33	106-43-4	
4-Methyl-2-pentanone (MIBK)	<29.8	ug/L	125	29.8	5		10/14/21 20:33	108-10-1	
Acetone	<43.2	ug/L	125	43.2	5		10/14/21 20:33	67-64-1	
Benzene	20.7	ug/L	5.0	1.5	5		10/14/21 20:33	71-43-2	
Bromobenzene	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		10/14/21 20:33	74-97-5	
Bromodichloromethane	<2.1	ug/L	5.0	2.1	5		10/14/21 20:33	75-27-4	
Bromoform	<19.0	ug/L	25.0	19.0	5		10/14/21 20:33	75-25-2	
Bromomethane	<6.0	ug/L	25.0	6.0	5		10/14/21 20:33	74-83-9	
Carbon tetrachloride	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	56-23-5	
Chlorobenzene	4.4J	ug/L	5.0	4.3	5		10/14/21 20:33	108-90-7	
Chloroethane	86.2	ug/L	25.0	6.9	5		10/14/21 20:33	75-00-3	
Chloroform	<5.9	ug/L	25.0	5.9	5		10/14/21 20:33	67-66-3	
Chloromethane	<8.2	ug/L	25.0	8.2	5		10/14/21 20:33	74-87-3	
Dibromochloromethane	<13.2	ug/L	25.0	13.2	5		10/14/21 20:33	124-48-1	
Dibromomethane	<5.0	ug/L	25.0	5.0	5		10/14/21 20:33	74-95-3	
Dichlorodifluoromethane	<2.3	ug/L	25.0	2.3	5		10/14/21 20:33	75-71-8	
Diisopropyl ether	<5.5	ug/L	25.0	5.5	5		10/14/21 20:33	108-20-3	
Ethylbenzene	1110	ug/L	5.0	1.6	5		10/14/21 20:33	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/L	25.0	13.7	5		10/14/21 20:33	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	25.0	5.0	5		10/14/21 20:33	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: W-19R **Lab ID: 40234929009** Collected: 10/08/21 12:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<5.6	ug/L	25.0	5.6	5		10/14/21 20:33	1634-04-4	
Methylene Chloride	<1.6	ug/L	25.0	1.6	5		10/14/21 20:33	75-09-2	
Naphthalene	<5.6	ug/L	25.0	5.6	5		10/14/21 20:33	91-20-3	
Styrene	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	100-42-5	
Tetrachloroethene	<2.0	ug/L	5.0	2.0	5		10/14/21 20:33	127-18-4	
Toluene	4.4J	ug/L	5.0	1.4	5		10/14/21 20:33	108-88-3	
Trichloroethene	<1.6	ug/L	5.0	1.6	5		10/14/21 20:33	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	5.0	2.1	5		10/14/21 20:33	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		10/14/21 20:33	75-01-4	
Xylene (Total)	1500	ug/L	15.0	5.2	5		10/14/21 20:33	1330-20-7	
cis-1,2-Dichloroethene	<2.4	ug/L	5.0	2.4	5		10/14/21 20:33	156-59-2	
cis-1,3-Dichloropropene	<1.8	ug/L	5.0	1.8	5		10/14/21 20:33	10061-01-5	
m&p-Xylene	1140	ug/L	10.0	3.5	5		10/14/21 20:33	179601-23-1	
n-Butylbenzene	<4.3	ug/L	5.0	4.3	5		10/14/21 20:33	104-51-8	
n-Propylbenzene	<1.7	ug/L	5.0	1.7	5		10/14/21 20:33	103-65-1	
o-Xylene	360	ug/L	5.0	1.7	5		10/14/21 20:33	95-47-6	
p-Isopropyltoluene	<5.2	ug/L	25.0	5.2	5		10/14/21 20:33	99-87-6	
sec-Butylbenzene	<2.1	ug/L	5.0	2.1	5		10/14/21 20:33	135-98-8	
tert-Butylbenzene	<2.9	ug/L	5.0	2.9	5		10/14/21 20:33	98-06-6	
trans-1,2-Dichloroethene	<2.6	ug/L	5.0	2.6	5		10/14/21 20:33	156-60-5	
trans-1,3-Dichloropropene	<17.3	ug/L	25.0	17.3	5		10/14/21 20:33	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		5		10/14/21 20:33	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		5		10/14/21 20:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		5		10/14/21 20:33	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR
Pace Project No.: 40234929

Sample: **MW-115 DUP** Lab ID: **40234929010** Collected: 10/08/21 10:50 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	4.0	1.2	4		10/14/21 14:15	71-55-6	
1,1,2,2-Tetrachloroethane	<1.5	ug/L	4.0	1.5	4		10/14/21 14:15	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	20.0	1.4	4		10/14/21 14:15	79-00-5	
1,1-Dichloroethane	50.8	ug/L	4.0	1.2	4		10/14/21 14:15	75-34-3	
1,1-Dichloroethene	5.8	ug/L	4.0	2.3	4		10/14/21 14:15	75-35-4	
1,1-Dichloropropene	<1.6	ug/L	4.0	1.6	4		10/14/21 14:15	563-58-6	
1,2,3-Trichlorobenzene	<4.1	ug/L	20.0	4.1	4		10/14/21 14:15	87-61-6	
1,2,3-Trichloropropane	<2.2	ug/L	20.0	2.2	4		10/14/21 14:15	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		10/14/21 14:15	120-82-1	
1,2,4-Trimethylbenzene	<1.8	ug/L	4.0	1.8	4		10/14/21 14:15	95-63-6	
1,2-Dibromo-3-chloropropane	<9.5	ug/L	20.0	9.5	4		10/14/21 14:15	96-12-8	
1,2-Dibromoethane (EDB)	<1.2	ug/L	4.0	1.2	4		10/14/21 14:15	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/L	4.0	1.3	4		10/14/21 14:15	95-50-1	
1,2-Dichloroethane	36.7	ug/L	4.0	1.2	4		10/14/21 14:15	107-06-2	
1,2-Dichloropropane	<1.8	ug/L	4.0	1.8	4		10/14/21 14:15	78-87-5	
1,3,5-Trimethylbenzene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	108-67-8	
1,3-Dichlorobenzene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	541-73-1	
1,3-Dichloropropane	<1.2	ug/L	4.0	1.2	4		10/14/21 14:15	142-28-9	
1,4-Dichlorobenzene	<3.6	ug/L	4.0	3.6	4		10/14/21 14:15	106-46-7	
2,2-Dichloropropane	<16.7	ug/L	20.0	16.7	4		10/14/21 14:15	594-20-7	
2-Butanone (MEK)	<26.1	ug/L	100	26.1	4		10/14/21 14:15	78-93-3	
2-Chlorotoluene	<3.6	ug/L	20.0	3.6	4		10/14/21 14:15	95-49-8	
2-Propanol	<39.4	ug/L	400	39.4	4		10/14/21 14:15	67-63-0	
4-Chlorotoluene	<3.6	ug/L	20.0	3.6	4		10/14/21 14:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	<23.8	ug/L	100	23.8	4		10/14/21 14:15	108-10-1	
Acetone	<34.6	ug/L	100	34.6	4		10/14/21 14:15	67-64-1	
Benzene	4.5	ug/L	4.0	1.2	4		10/14/21 14:15	71-43-2	
Bromobenzene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		10/14/21 14:15	74-97-5	
Bromodichloromethane	<1.7	ug/L	4.0	1.7	4		10/14/21 14:15	75-27-4	
Bromoform	<15.2	ug/L	20.0	15.2	4		10/14/21 14:15	75-25-2	
Bromomethane	<4.8	ug/L	20.0	4.8	4		10/14/21 14:15	74-83-9	
Carbon tetrachloride	<1.5	ug/L	4.0	1.5	4		10/14/21 14:15	56-23-5	
Chlorobenzene	<3.4	ug/L	4.0	3.4	4		10/14/21 14:15	108-90-7	
Chloroethane	806	ug/L	20.0	5.5	4		10/14/21 14:15	75-00-3	
Chloroform	<4.7	ug/L	20.0	4.7	4		10/14/21 14:15	67-66-3	
Chloromethane	<6.5	ug/L	20.0	6.5	4		10/14/21 14:15	74-87-3	
Dibromochloromethane	<10.6	ug/L	20.0	10.6	4		10/14/21 14:15	124-48-1	
Dibromomethane	<4.0	ug/L	20.0	4.0	4		10/14/21 14:15	74-95-3	
Dichlorodifluoromethane	<1.8	ug/L	20.0	1.8	4		10/14/21 14:15	75-71-8	
Diisopropyl ether	<4.4	ug/L	20.0	4.4	4		10/14/21 14:15	108-20-3	
Ethylbenzene	<1.3	ug/L	4.0	1.3	4		10/14/21 14:15	100-41-4	
Hexachloro-1,3-butadiene	<10.9	ug/L	20.0	10.9	4		10/14/21 14:15	87-68-3	
Isopropylbenzene (Cumene)	<4.0	ug/L	20.0	4.0	4		10/14/21 14:15	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: MW-115 DUP **Lab ID: 40234929010** Collected: 10/08/21 10:50 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<4.5	ug/L	20.0	4.5	4		10/14/21 14:15	1634-04-4	
Methylene Chloride	<1.3	ug/L	20.0	1.3	4		10/14/21 14:15	75-09-2	
Naphthalene	<4.5	ug/L	20.0	4.5	4		10/14/21 14:15	91-20-3	
Styrene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	100-42-5	
Tetrachloroethene	<1.6	ug/L	4.0	1.6	4		10/14/21 14:15	127-18-4	
Toluene	66.6	ug/L	4.0	1.2	4		10/14/21 14:15	108-88-3	
Trichloroethene	2.2J	ug/L	4.0	1.3	4		10/14/21 14:15	79-01-6	
Trichlorofluoromethane	<1.7	ug/L	4.0	1.7	4		10/14/21 14:15	75-69-4	
Vinyl chloride	29.7	ug/L	4.0	0.70	4		10/14/21 14:15	75-01-4	
Xylene (Total)	<4.2	ug/L	12.0	4.2	4		10/14/21 14:15	1330-20-7	
cis-1,2-Dichloroethene	76.1	ug/L	4.0	1.9	4		10/14/21 14:15	156-59-2	
cis-1,3-Dichloropropene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	10061-01-5	
m&p-Xylene	<2.8	ug/L	8.0	2.8	4		10/14/21 14:15	179601-23-1	
n-Butylbenzene	<3.4	ug/L	4.0	3.4	4		10/14/21 14:15	104-51-8	
n-Propylbenzene	<1.4	ug/L	4.0	1.4	4		10/14/21 14:15	103-65-1	
o-Xylene	1.6J	ug/L	4.0	1.4	4		10/14/21 14:15	95-47-6	
p-Isopropyltoluene	<4.2	ug/L	20.0	4.2	4		10/14/21 14:15	99-87-6	
sec-Butylbenzene	<1.7	ug/L	4.0	1.7	4		10/14/21 14:15	135-98-8	
tert-Butylbenzene	<2.3	ug/L	4.0	2.3	4		10/14/21 14:15	98-06-6	
trans-1,2-Dichloroethene	25.0	ug/L	4.0	2.1	4		10/14/21 14:15	156-60-5	
trans-1,3-Dichloropropene	<13.8	ug/L	20.0	13.8	4		10/14/21 14:15	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		4		10/14/21 14:15	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		4		10/14/21 14:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		4		10/14/21 14:15	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: TW-1 **Lab ID: 40234929011** Collected: 10/08/21 09:45 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		10/14/21 14:34	630-20-6	
1,1,1-Trichloroethane	5.3J	ug/L	10.0	3.0	10		10/14/21 14:34	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		10/14/21 14:34	79-34-5	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		10/14/21 14:34	79-00-5	
1,1-Dichloroethane	290	ug/L	10.0	3.0	10		10/14/21 14:34	75-34-3	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		10/14/21 14:34	75-35-4	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		10/14/21 14:34	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		10/14/21 14:34	87-61-6	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		10/14/21 14:34	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		10/14/21 14:34	120-82-1	
1,2,4-Trimethylbenzene	570	ug/L	10.0	4.5	10		10/14/21 14:34	95-63-6	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		10/14/21 14:34	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		10/14/21 14:34	106-93-4	
1,2-Dichlorobenzene	25.7	ug/L	10.0	3.3	10		10/14/21 14:34	95-50-1	
1,2-Dichloroethane	14.3	ug/L	10.0	2.9	10		10/14/21 14:34	107-06-2	
1,2-Dichloropropane	7.2J	ug/L	10.0	4.5	10		10/14/21 14:34	78-87-5	
1,3,5-Trimethylbenzene	96.7	ug/L	10.0	3.6	10		10/14/21 14:34	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		10/14/21 14:34	541-73-1	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		10/14/21 14:34	142-28-9	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		10/14/21 14:34	106-46-7	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		10/14/21 14:34	594-20-7	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		10/14/21 14:34	78-93-3	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/14/21 14:34	95-49-8	
2-Propanol	<98.5	ug/L	1000	98.5	10		10/14/21 14:34	67-63-0	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/14/21 14:34	106-43-4	
4-Methyl-2-pentanone (MIBK)	<59.5	ug/L	250	59.5	10		10/14/21 14:34	108-10-1	
Acetone	<86.4	ug/L	250	86.4	10		10/14/21 14:34	67-64-1	
Benzene	5.0J	ug/L	10.0	3.0	10		10/14/21 14:34	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		10/14/21 14:34	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		10/14/21 14:34	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		10/14/21 14:34	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		10/14/21 14:34	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		10/14/21 14:34	74-83-9	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		10/14/21 14:34	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		10/14/21 14:34	108-90-7	
Chloroethane	167	ug/L	50.0	13.8	10		10/14/21 14:34	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		10/14/21 14:34	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		10/14/21 14:34	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		10/14/21 14:34	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		10/14/21 14:34	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		10/14/21 14:34	75-71-8	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		10/14/21 14:34	108-20-3	
Ethylbenzene	1820	ug/L	10.0	3.3	10		10/14/21 14:34	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		10/14/21 14:34	87-68-3	
Isopropylbenzene (Cumene)	59.3	ug/L	50.0	10.0	10		10/14/21 14:34	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: TW-1 **Lab ID: 40234929011** Collected: 10/08/21 09:45 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		10/14/21 14:34	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		10/14/21 14:34	75-09-2	
Naphthalene	49.5J	ug/L	50.0	11.3	10		10/14/21 14:34	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		10/14/21 14:34	100-42-5	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		10/14/21 14:34	127-18-4	
Toluene	1100	ug/L	10.0	2.9	10		10/14/21 14:34	108-88-3	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		10/14/21 14:34	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		10/14/21 14:34	75-69-4	
Vinyl chloride	126	ug/L	10.0	1.7	10		10/14/21 14:34	75-01-4	
Xylene (Total)	6640	ug/L	30.0	10.5	10		10/14/21 14:34	1330-20-7	
cis-1,2-Dichloroethene	176	ug/L	10.0	4.7	10		10/14/21 14:34	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		10/14/21 14:34	10061-01-5	
m&p-Xylene	5110	ug/L	20.0	7.0	10		10/14/21 14:34	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		10/14/21 14:34	104-51-8	
n-Propylbenzene	86.7	ug/L	10.0	3.5	10		10/14/21 14:34	103-65-1	
o-Xylene	1530	ug/L	10.0	3.5	10		10/14/21 14:34	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		10/14/21 14:34	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		10/14/21 14:34	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		10/14/21 14:34	98-06-6	
trans-1,2-Dichloroethene	<5.3	ug/L	10.0	5.3	10		10/14/21 14:34	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		10/14/21 14:34	10061-02-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		10		10/14/21 14:34	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		10		10/14/21 14:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		10		10/14/21 14:34	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: RW-2 **Lab ID: 40234929012** Collected: 10/08/21 07:20 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 19:56	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 19:56	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 19:56	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 19:56	79-00-5	
1,1-Dichloroethane	3.1	ug/L	1.0	0.30	1		10/14/21 19:56	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 19:56	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 19:56	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:56	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 19:56	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 19:56	120-82-1	
1,2,4-Trimethylbenzene	0.85J	ug/L	1.0	0.45	1		10/14/21 19:56	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 19:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 19:56	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 19:56	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 19:56	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 19:56	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:56	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:56	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 19:56	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 19:56	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 19:56	594-20-7	
2-Butanone (MEK)	24.9J	ug/L	25.0	6.5	1		10/14/21 19:56	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:56	95-49-8	
2-Propanol	670	ug/L	100	9.9	1		10/14/21 19:56	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 19:56	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 19:56	108-10-1	
Acetone	182	ug/L	25.0	8.6	1		10/14/21 19:56	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 19:56	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 19:56	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:56	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 19:56	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 19:56	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 19:56	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:56	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 19:56	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 19:56	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 19:56	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 19:56	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 19:56	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 19:56	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:56	108-20-3	
Ethylbenzene	6.0	ug/L	1.0	0.33	1		10/14/21 19:56	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 19:56	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 19:56	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: RW-2 **Lab ID: 40234929012** Collected: 10/08/21 07:20 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 19:56	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 19:56	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 19:56	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:56	100-42-5	
Tetrachloroethene	0.95J	ug/L	1.0	0.41	1		10/14/21 19:56	127-18-4	
Toluene	35.8	ug/L	1.0	0.29	1		10/14/21 19:56	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 19:56	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 19:56	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 19:56	75-01-4	
Xylene (Total)	16.0	ug/L	3.0	1.0	1		10/14/21 19:56	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 19:56	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 19:56	10061-01-5	
m&p-Xylene	9.5	ug/L	2.0	0.70	1		10/14/21 19:56	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 19:56	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 19:56	103-65-1	
o-Xylene	6.5	ug/L	1.0	0.35	1		10/14/21 19:56	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 19:56	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 19:56	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 19:56	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 19:56	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 19:56	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		10/14/21 19:56	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		10/14/21 19:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/14/21 19:56	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: RW-5 **Lab ID: 40234929013** Collected: 10/08/21 07:40 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 11:46	630-20-6	
1,1,1-Trichloroethane	14.6	ug/L	1.0	0.30	1		10/14/21 11:46	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 11:46	79-34-5	
1,1,2-Trichloroethane	0.50J	ug/L	5.0	0.34	1		10/14/21 11:46	79-00-5	
1,1-Dichloroethane	28.6	ug/L	1.0	0.30	1		10/14/21 11:46	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 11:46	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 11:46	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:46	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 11:46	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 11:46	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 11:46	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 11:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 11:46	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:46	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 11:46	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 11:46	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:46	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:46	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 11:46	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 11:46	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 11:46	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 11:46	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:46	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/14/21 11:46	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 11:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 11:46	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 11:46	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 11:46	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:46	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 11:46	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:46	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 11:46	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 11:46	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 11:46	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:46	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 11:46	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 11:46	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 11:46	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 11:46	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 11:46	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 11:46	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 11:46	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 11:46	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 11:46	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 11:46	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: RW-5 **Lab ID: 40234929013** Collected: 10/08/21 07:40 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	4.4J	ug/L	5.0	1.1	1		10/14/21 11:46	1634-04-4	
Methylene Chloride	1.7J	ug/L	5.0	0.32	1		10/14/21 11:46	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 11:46	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:46	100-42-5	
Tetrachloroethene	16.0	ug/L	1.0	0.41	1		10/14/21 11:46	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 11:46	108-88-3	
Trichloroethene	9.4	ug/L	1.0	0.32	1		10/14/21 11:46	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 11:46	75-69-4	
Vinyl chloride	0.35J	ug/L	1.0	0.17	1		10/14/21 11:46	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 11:46	1330-20-7	
cis-1,2-Dichloroethene	41.2	ug/L	1.0	0.47	1		10/14/21 11:46	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 11:46	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 11:46	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 11:46	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:46	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 11:46	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 11:46	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 11:46	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 11:46	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 11:46	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 11:46	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		10/14/21 11:46	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/14/21 11:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/14/21 11:46	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: TRIP BLANK **Lab ID: 40234929014** Collected: 10/08/21 00:00 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 10:14	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:14	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 10:14	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 10:14	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:14	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 10:14	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 10:14	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:14	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 10:14	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 10:14	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 10:14	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 10:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 10:14	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:14	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 10:14	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 10:14	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:14	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:14	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 10:14	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 10:14	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 10:14	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 10:14	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:14	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/14/21 10:14	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 10:14	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 10:14	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 10:14	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 10:14	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 10:14	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 10:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 10:14	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 10:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 10:14	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 10:14	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 10:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 10:14	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 10:14	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 10:14	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:14	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 10:14	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 10:14	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 10:14	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: TRIP BLANK **Lab ID: 40234929014** Collected: 10/08/21 00:00 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 10:14	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 10:14	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 10:14	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:14	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 10:14	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 10:14	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 10:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 10:14	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 10:14	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 10:14	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 10:14	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 10:14	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 10:14	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 10:14	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:14	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 10:14	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 10:14	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 10:14	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 10:14	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 10:14	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 10:14	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		10/14/21 10:14	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 10:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 10:14	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: WELL SAMP RINSE DRUM **Lab ID: 40234929015** Collected: 10/08/21 07:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 12:05	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:05	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 12:05	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 12:05	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:05	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 12:05	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 12:05	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 12:05	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 12:05	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 12:05	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 12:05	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 12:05	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 12:05	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:05	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 12:05	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 12:05	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:05	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:05	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:05	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 12:05	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 12:05	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 12:05	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 12:05	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/14/21 12:05	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 12:05	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 12:05	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 12:05	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 12:05	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 12:05	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:05	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 12:05	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 12:05	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 12:05	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 12:05	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 12:05	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 12:05	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 12:05	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 12:05	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 12:05	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 12:05	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 12:05	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:05	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 12:05	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 12:05	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: WELL SAMP RINSE DRUM **Lab ID: 40234929015** Collected: 10/08/21 07:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 12:05	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 12:05	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 12:05	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:05	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 12:05	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 12:05	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 12:05	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:05	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 12:05	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 12:05	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 12:05	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:05	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 12:05	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 12:05	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:05	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:05	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 12:05	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 12:05	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 12:05	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 12:05	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 12:05	10061-02-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		10/14/21 12:05	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/14/21 12:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 12:05	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234929

Sample: DW-1 **Lab ID: 40234929016** Collected: 10/08/21 13:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 12:24	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 12:24	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 12:24	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:24	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 12:24	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 12:24	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 12:24	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 12:24	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 12:24	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 12:24	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 12:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 12:24	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:24	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 12:24	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 12:24	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:24	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:24	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 12:24	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 12:24	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 12:24	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 12:24	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 12:24	95-49-8	
2-Propanol	48.7J	ug/L	100	9.9	1		10/14/21 12:24	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 12:24	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 12:24	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 12:24	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 12:24	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 12:24	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:24	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 12:24	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 12:24	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 12:24	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 12:24	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 12:24	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 12:24	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 12:24	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 12:24	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 12:24	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 12:24	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 12:24	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 12:24	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 12:24	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 12:24	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR
Pace Project No.: 40234929

Sample: DW-1 **Lab ID: 40234929016** Collected: 10/08/21 13:10 Received: 10/12/21 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 12:24	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 12:24	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 12:24	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:24	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 12:24	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 12:24	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 12:24	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 12:24	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 12:24	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 12:24	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 12:24	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 12:24	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 12:24	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 12:24	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:24	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 12:24	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 12:24	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 12:24	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 12:24	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 12:24	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 12:24	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		10/14/21 12:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/14/21 12:24	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/14/21 12:24	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234929

METHOD BLANK: 2299963

Matrix: Water

Associated Lab Samples: 40234929001, 40234929002, 40234929003, 40234929004, 40234929005, 40234929006, 40234929007, 40234929008, 40234929009, 40234929010, 40234929011, 40234929012, 40234929013, 40234929014, 40234929015, 40234929016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	<1.6	5.0	10/14/21 08:22	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/14/21 08:22	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	10/14/21 08:22	
Dibromochloromethane	ug/L	<2.6	5.0	10/14/21 08:22	
Dibromomethane	ug/L	<0.99	5.0	10/14/21 08:22	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/14/21 08:22	
Diisopropyl ether	ug/L	<1.1	5.0	10/14/21 08:22	
Ethylbenzene	ug/L	<0.33	1.0	10/14/21 08:22	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	10/14/21 08:22	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	10/14/21 08:22	
m&p-Xylene	ug/L	<0.70	2.0	10/14/21 08:22	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/14/21 08:22	
Methylene Chloride	ug/L	<0.32	5.0	10/14/21 08:22	
n-Butylbenzene	ug/L	<0.86	1.0	10/14/21 08:22	
n-Propylbenzene	ug/L	<0.35	1.0	10/14/21 08:22	
Naphthalene	ug/L	<1.1	5.0	10/14/21 08:22	
o-Xylene	ug/L	<0.35	1.0	10/14/21 08:22	
p-Isopropyltoluene	ug/L	<1.0	5.0	10/14/21 08:22	
sec-Butylbenzene	ug/L	<0.42	1.0	10/14/21 08:22	
Styrene	ug/L	<0.36	1.0	10/14/21 08:22	
tert-Butylbenzene	ug/L	<0.59	1.0	10/14/21 08:22	
Tetrachloroethene	ug/L	<0.41	1.0	10/14/21 08:22	
Toluene	ug/L	<0.29	1.0	10/14/21 08:22	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/14/21 08:22	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	10/14/21 08:22	
Trichloroethene	ug/L	<0.32	1.0	10/14/21 08:22	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/14/21 08:22	
Vinyl chloride	ug/L	<0.17	1.0	10/14/21 08:22	
Xylene (Total)	ug/L	<1.0	3.0	10/14/21 08:22	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	10/14/21 08:22	
4-Bromofluorobenzene (S)	%	96	70-130	10/14/21 08:22	
Toluene-d8 (S)	%	100	70-130	10/14/21 08:22	

LABORATORY CONTROL SAMPLE: 2299964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	40.9	82	66-130	
1,1,2-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethane	ug/L	50	51.0	102	68-132	
1,1-Dichloroethene	ug/L	50	60.0	120	85-126	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	70-130	

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40234929

LABORATORY CONTROL SAMPLE: 2299964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	39.6	79	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	46.8	94	70-130	
1,2-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
1,2-Dichloropropane	ug/L	50	46.9	94	78-125	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
Benzene	ug/L	50	49.0	98	70-132	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	53.7	107	65-130	
Bromomethane	ug/L	50	50.1	100	44-128	
Carbon tetrachloride	ug/L	50	58.1	116	70-130	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	54.5	109	73-137	
Chloroform	ug/L	50	53.1	106	80-122	
Chloromethane	ug/L	50	47.1	94	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	41.7	83	22-151	
Ethylbenzene	ug/L	50	50.2	100	80-123	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	66-130	
Methylene Chloride	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	52.1	104	70-130	
Styrene	ug/L	50	54.5	109	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	49.7	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	58-125	
Trichloroethene	ug/L	50	50.3	101	70-130	
Trichlorofluoromethane	ug/L	50	60.7	121	84-148	
Vinyl chloride	ug/L	50	54.8	110	63-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301811 2301812

Parameter	Units	40234929004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	1.6	50	50	55.9	57.0	109	111	70-130	2	20	
1,1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	42.4	42.9	85	86	66-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40234929

Parameter	Units	2301811		2301812		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40234929004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,2-Trichloroethane	ug/L	<0.34	50	50	47.0	46.4	94	93	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	50.2	52.0	100	104	68-132	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	59.6	60.5	119	121	76-132	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.0	48.9	96	98	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	44.2	44.8	88	90	51-126	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	47.6	47.5	95	95	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.3	48.3	95	97	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	51.0	52.3	102	105	70-130	2	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	47.3	47.2	95	94	77-125	0	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	47.4	48.2	95	96	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	48.3	49.1	97	98	70-130	2	20		
Benzene	ug/L	<0.30	50	50	48.9	49.8	98	100	70-132	2	20		
Bromodichloromethane	ug/L	<0.42	50	50	49.3	48.7	99	97	70-130	1	20		
Bromoform	ug/L	<3.8	50	50	53.4	54.7	107	109	65-130	2	20		
Bromomethane	ug/L	<1.2	50	50	52.5	52.6	105	105	44-128	0	21		
Carbon tetrachloride	ug/L	<0.37	50	50	57.6	58.2	115	116	70-132	1	20		
Chlorobenzene	ug/L	<0.86	50	50	49.2	49.1	98	98	70-130	0	20		
Chloroethane	ug/L	<1.4	50	50	56.0	56.1	112	112	70-137	0	20		
Chloroform	ug/L	<1.2	50	50	52.8	54.2	106	108	80-122	3	20		
Chloromethane	ug/L	<1.6	50	50	48.1	48.3	96	97	17-149	0	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	46.9	48.2	94	96	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	47.5	48.0	95	96	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.5	49.9	99	100	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	41.6	42.2	83	84	22-158	1	20		
Ethylbenzene	ug/L	<0.33	50	50	50.5	51.1	101	102	80-123	1	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.8	54.2	108	108	70-130	1	20		
m&p-Xylene	ug/L	<0.70	100	100	105	105	105	105	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.5	46.1	91	92	66-130	1	20		
Methylene Chloride	ug/L	<0.32	50	50	49.0	50.0	98	100	70-130	2	20		
o-Xylene	ug/L	<0.35	50	50	52.2	52.5	104	105	70-130	1	20		
Styrene	ug/L	<0.36	50	50	54.2	55.0	108	110	70-130	2	20		
Tetrachloroethene	ug/L	3.8	50	50	59.7	58.4	112	109	70-130	2	20		
Toluene	ug/L	<0.29	50	50	49.6	50.0	99	100	80-121	1	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50.5	50.7	101	101	70-134	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	47.2	47.2	94	94	58-130	0	20		
Trichloroethene	ug/L	5.7	50	50	56.0	57.3	101	103	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	59.7	60.1	119	120	82-151	1	20		
Vinyl chloride	ug/L	<0.17	50	50	56.0	55.0	112	110	61-143	2	20		
Xylene (Total)	ug/L	<1.0	150	150	157	158	105	105	70-130	0	20		
1,2-Dichlorobenzene-d4 (S)	%						97	98	70-130				
4-Bromofluorobenzene (S)	%						98	98	70-130				
Toluene-d8 (S)	%						100	100	70-130				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 55929.005 WRR

Pace Project No.: 40234929

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 55929.005 WRR

Pace Project No.: 40234929

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40234929001	W-1A	EPA 8260	398427		
40234929002	W-1D	EPA 8260	398427		
40234929003	W-6	EPA 8260	398427		
40234929004	W-7	EPA 8260	398427		
40234929005	W-7A	EPA 8260	398427		
40234929006	W-17A	EPA 8260	398427		
40234929007	W-18A	EPA 8260	398427		
40234929008	W-18A DUP	EPA 8260	398427		
40234929009	W-19R	EPA 8260	398427		
40234929010	MW-115 DUP	EPA 8260	398427		
40234929011	TW-1	EPA 8260	398427		
40234929012	RW-2	EPA 8260	398427		
40234929013	RW-5	EPA 8260	398427		
40234929014	TRIP BLANK	EPA 8260	398427		
40234929015	WELL SAMP RINSE DRUM	EPA 8260	398427		
40234929016	DW-1	EPA 8260	398427		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: Gunneth Flaming Project # 40234929

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
001																3															2.5 / 5 / 10
002																3															2.5 / 5 / 10
003																3															2.5 / 5 / 10
004																3															2.5 / 5 / 10
005																3															2.5 / 5 / 10
006																3															2.5 / 5 / 10
007																3															2.5 / 5 / 10
008																3															2.5 / 5 / 10
009																3															2.5 / 5 / 10
010																3															2.5 / 5 / 10
011																3															2.5 / 5 / 10
012																3															2.5 / 5 / 10
013																3															2.5 / 5 / 10
014																2															2.5 / 5 / 10
015																3															2.5 / 5 / 10
016																3															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	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			


 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 #:

Client Name: Gunnett + Flaming
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

WO# : 40234929



40234929

Tracking #: 2847 5973 2184
 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 - 113 Type of Ice: Wet Blue Dry None
 Cooler Temperature Uncorr: 1.5 ICorr: 1.6

Samples on ice, cooling process has begun
 Person examining contents:
 Date: 10/12/21 / Initials: MP
 Labeled By Initials: ALW

Temp Blank Present: yes no 10/12/21/MP Biological Tissue is Frozen: yes no
 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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>010: "1045", 016 one VG9H; no id</u> date/time: <u>10/12/21 ALW</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

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 analytical & QA/QC results
in the attached laboratory report
have been reviewed and
approved by AWM on 10/22/21.

October 22, 2021

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

RE: Project: 55929.005 WRR
Pace Project No.: 40234869

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2021. 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.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 55929.005 WRR

Pace Project No.: 40234869

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

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SAMPLE SUMMARY

Project: 55929.005 WRR
Pace Project No.: 40234869

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40234869001	W-2'	Water	10/07/21 10:00	10/11/21 09:45
40234869002	W-32'	Water	10/07/21 16:20	10/11/21 09:45
40234869003	W-33'	Water	10/07/21 15:00	10/11/21 09:45
40234869004	W-34'	Water	10/07/21 11:20	10/11/21 09:45
40234869005	W-35'	Water	10/07/21 13:20	10/11/21 09:45
40234869006	MW-111A'	Water	10/06/21 12:15	10/11/21 09:45
40234869007	MW-111A DUP'	Water	10/06/21 12:20	10/11/21 09:45
40234869008	MW-111B'	Water	10/06/21 12:30	10/11/21 09:45
40234869009	MW-114'	Water	10/06/21 11:00	10/11/21 09:45
40234869010	MW-114A'	Water	10/06/21 11:15	10/11/21 09:45
40234869011	SVE-5'	Water	10/07/21 14:00	10/11/21 09:45
40234869012	SVE-7'	Water	10/07/21 15:40	10/11/21 09:45
40234869013	W-27'	Water	10/07/21 10:15	10/11/21 09:45
40234869014	MW-115B'	Water	10/07/21 08:40	10/11/21 09:45
40234869015	MW-115A	Water	10/07/21 14:00	10/11/21 09:45
40234869016	MW-17B	Water	10/07/21 10:40	10/11/21 09:45
40234869017	W-30B	Water	10/07/21 12:40	10/11/21 09:45
40234869018	W-26	Water	10/07/21 13:40	10/11/21 09:45
40234869019	W-30A	Water	10/07/21 12:50	10/11/21 09:45
40234869020	MW-115	Water	10/07/21 13:55	10/11/21 09:45
40234869022	TRIP BLANK	Water	10/07/21 00:00	10/11/21 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 55929.005 WRR
Pace Project No.: 40234869

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40234869001	W-2'	EPA 8260	LAP	69
40234869002	W-32'	EPA 8260	LAP	69
40234869003	W-33'	EPA 8260	LAP	69
40234869004	W-34'	EPA 8260	LAP	69
40234869005	W-35'	EPA 8260	LAP	69
40234869006	MW-111A'	EPA 8260	LAP	69
40234869007	MW-111A DUP'	EPA 8260	LAP	69
40234869008	MW-111B'	EPA 8260	LAP	69
40234869009	MW-114'	EPA 8260	LAP	69
40234869010	MW-114A'	EPA 8260	LAP	69
40234869011	SVE-5'	EPA 8260	LAP	69
40234869012	SVE-7'	EPA 8260	LAP	69
40234869013	W-27'	EPA 8260	LAP	69
40234869014	MW-115B'	EPA 8260	LAP	69
40234869015	MW-115A	EPA 8260	LAP	69
40234869016	MW-17B	EPA 8260	LAP	69
40234869017	W-30B	EPA 8260	LAP	69
40234869018	W-26	EPA 8260	LAP	69
40234869019	W-30A	EPA 8260	LAP	69
40234869020	MW-115	EPA 8260	LAP	69
40234869022	TRIP BLANK	EPA 8260	LAP	69

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234869

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234869001	W-2'					
EPA 8260	1,1,1-Trichloroethane	3.5	ug/L	1.0	10/18/21 09:41	
EPA 8260	Tetrachloroethene	20.1	ug/L	1.0	10/18/21 09:41	
EPA 8260	Trichloroethene	1.2	ug/L	1.0	10/18/21 09:41	
40234869002	W-32'					
EPA 8260	1,1,1-Trichloroethane	1690	ug/L	10.0	10/18/21 17:01	
EPA 8260	1,1,2-Trichloroethane	16.1J	ug/L	50.0	10/18/21 17:01	
EPA 8260	1,1-Dichloroethane	65.7	ug/L	10.0	10/18/21 17:01	
EPA 8260	1,1-Dichloroethene	96.5	ug/L	10.0	10/18/21 17:01	
EPA 8260	1,2-Dichloropropane	13.8	ug/L	10.0	10/18/21 17:01	
EPA 8260	Tetrachloroethene	1460	ug/L	10.0	10/18/21 17:01	
EPA 8260	Trichloroethene	2110	ug/L	10.0	10/18/21 17:01	
EPA 8260	Vinyl chloride	11.1	ug/L	10.0	10/18/21 17:01	
EPA 8260	cis-1,2-Dichloroethene	858	ug/L	10.0	10/18/21 17:01	
40234869003	W-33'					
EPA 8260	1,1,1-Trichloroethane	207	ug/L	50.0	10/18/21 13:04	
EPA 8260	1,1,2-Trichloroethane	22.7J	ug/L	250	10/18/21 13:04	
EPA 8260	1,1-Dichloroethane	1050	ug/L	50.0	10/18/21 13:04	
EPA 8260	1,2,4-Trimethylbenzene	69.1	ug/L	50.0	10/18/21 13:04	
EPA 8260	1,2-Dichlorobenzene	23.1J	ug/L	50.0	10/18/21 13:04	
EPA 8260	1,2-Dichloroethane	42.1J	ug/L	50.0	10/18/21 13:04	
EPA 8260	1,3,5-Trimethylbenzene	24.5J	ug/L	50.0	10/18/21 13:04	
EPA 8260	Chloroethane	704	ug/L	250	10/18/21 13:04	
EPA 8260	Ethylbenzene	260	ug/L	50.0	10/18/21 13:04	
EPA 8260	Methylene Chloride	437	ug/L	250	10/18/21 13:04	
EPA 8260	Toluene	770	ug/L	50.0	10/18/21 13:04	
EPA 8260	Vinyl chloride	292	ug/L	50.0	10/18/21 13:04	
EPA 8260	Xylene (Total)	1210	ug/L	150	10/18/21 13:04	
EPA 8260	cis-1,2-Dichloroethene	2180	ug/L	50.0	10/18/21 13:04	
EPA 8260	m&p-Xylene	899	ug/L	100	10/18/21 13:04	
EPA 8260	o-Xylene	308	ug/L	50.0	10/18/21 13:04	
40234869004	W-34'					
EPA 8260	1,1,1-Trichloroethane	326	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,1,2-Trichloroethane	207	ug/L	12.5	10/18/21 16:42	
EPA 8260	1,1-Dichloroethane	144	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,2,4-Trimethylbenzene	2.2J	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,2-Dichlorobenzene	10.8	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,2-Dichloroethane	14.3	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,2-Dichloropropane	9.1	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,3,5-Trimethylbenzene	1.1J	ug/L	2.5	10/18/21 16:42	
EPA 8260	1,4-Dichlorobenzene	2.3J	ug/L	2.5	10/18/21 16:42	
EPA 8260	Chloroethane	3.8J	ug/L	12.5	10/18/21 16:42	
EPA 8260	Ethylbenzene	15.8	ug/L	2.5	10/18/21 16:42	
EPA 8260	Methylene Chloride	5.4J	ug/L	12.5	10/18/21 16:42	
EPA 8260	Toluene	4.2	ug/L	2.5	10/18/21 16:42	
EPA 8260	Trichloroethene	0.87J	ug/L	2.5	10/18/21 16:42	
EPA 8260	Vinyl chloride	92.6	ug/L	2.5	10/18/21 16:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234869

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234869004	W-34'					
EPA 8260	Xylene (Total)	64.9	ug/L	7.5	10/18/21 16:42	
EPA 8260	cis-1,2-Dichloroethene	42.6	ug/L	2.5	10/18/21 16:42	
EPA 8260	m&p-Xylene	37.1	ug/L	5.0	10/18/21 16:42	
EPA 8260	o-Xylene	27.8	ug/L	2.5	10/18/21 16:42	
40234869005	W-35'					
EPA 8260	1,1,1-Trichloroethane	28.7	ug/L	1.0	10/18/21 10:55	
EPA 8260	1,1,2-Trichloroethane	2.0J	ug/L	5.0	10/18/21 10:55	
EPA 8260	1,1-Dichloroethane	61.6	ug/L	1.0	10/18/21 10:55	
EPA 8260	1,2-Dichloroethane	1.0	ug/L	1.0	10/18/21 10:55	
EPA 8260	1,2-Dichloropropane	1.4	ug/L	1.0	10/18/21 10:55	
EPA 8260	2-Butanone (MEK)	21.2J	ug/L	25.0	10/18/21 10:55	
EPA 8260	2-Propanol	26.3J	ug/L	100	10/18/21 10:55	
EPA 8260	Acetone	21.0J	ug/L	25.0	10/18/21 10:55	
EPA 8260	Methyl-tert-butyl ether	3.1J	ug/L	5.0	10/18/21 10:55	
EPA 8260	Methylene Chloride	1.1J	ug/L	5.0	10/18/21 10:55	
EPA 8260	Tetrachloroethene	1.9	ug/L	1.0	10/18/21 10:55	
EPA 8260	Trichloroethene	1.4	ug/L	1.0	10/18/21 10:55	
EPA 8260	Trichlorofluoromethane	0.53J	ug/L	1.0	10/18/21 10:55	
EPA 8260	Vinyl chloride	9.2	ug/L	1.0	10/18/21 10:55	
EPA 8260	cis-1,2-Dichloroethene	13.0	ug/L	1.0	10/18/21 10:55	
EPA 8260	trans-1,2-Dichloroethene	5.9	ug/L	1.0	10/18/21 10:55	
40234869006	MW-111A'					
EPA 8260	1,1-Dichloroethane	5.2	ug/L	5.0	10/18/21 14:01	
EPA 8260	1,2-Dichloroethane	1.8J	ug/L	5.0	10/18/21 14:01	
EPA 8260	Benzene	1.5J	ug/L	5.0	10/18/21 14:01	
EPA 8260	Chloroethane	206	ug/L	25.0	10/18/21 14:01	
EPA 8260	Toluene	10.8	ug/L	5.0	10/18/21 14:01	
EPA 8260	trans-1,2-Dichloroethene	6.4	ug/L	5.0	10/18/21 14:01	
40234869007	MW-111A DUP'					
EPA 8260	1,1-Dichloroethane	5.4	ug/L	5.0	10/18/21 13:41	
EPA 8260	1,2-Dichloroethane	1.8J	ug/L	5.0	10/18/21 13:41	
EPA 8260	Benzene	1.7J	ug/L	5.0	10/18/21 13:41	
EPA 8260	Chloroethane	205	ug/L	25.0	10/18/21 13:41	
EPA 8260	Toluene	10.0	ug/L	5.0	10/18/21 13:41	
EPA 8260	trans-1,2-Dichloroethene	6.2	ug/L	5.0	10/18/21 13:41	
40234869008	MW-111B'					
EPA 8260	1,1-Dichloroethane	18.5	ug/L	1.0	10/18/21 08:45	
EPA 8260	1,2-Dichloroethane	5.2	ug/L	1.0	10/18/21 08:45	
EPA 8260	1,2-Dichloropropane	1.5	ug/L	1.0	10/18/21 08:45	
EPA 8260	2-Propanol	26.8J	ug/L	100	10/18/21 08:45	
EPA 8260	Benzene	0.67J	ug/L	1.0	10/18/21 08:45	
EPA 8260	Chloroethane	90.6	ug/L	5.0	10/18/21 08:45	
EPA 8260	Toluene	4.4	ug/L	1.0	10/18/21 08:45	
EPA 8260	Trichloroethene	0.94J	ug/L	1.0	10/18/21 08:45	
EPA 8260	Vinyl chloride	3.3	ug/L	1.0	10/18/21 08:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234869

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234869008	MW-111B'					
EPA 8260	cis-1,2-Dichloroethene	2.1	ug/L	1.0	10/18/21 08:45	
EPA 8260	trans-1,2-Dichloroethene	2.5	ug/L	1.0	10/18/21 08:45	
40234869009	MW-114'					
EPA 8260	1,1-Dichloroethane	0.69J	ug/L	1.0	10/18/21 11:13	
EPA 8260	2-Propanol	14.6J	ug/L	100	10/18/21 11:13	
EPA 8260	Dichlorodifluoromethane	2.2J	ug/L	5.0	10/18/21 11:13	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	10/18/21 11:13	
EPA 8260	cis-1,2-Dichloroethene	2.6	ug/L	1.0	10/18/21 11:13	
40234869010	MW-114A'					
EPA 8260	1,1-Dichloroethane	1.7	ug/L	1.0	10/18/21 11:32	
EPA 8260	2-Propanol	15.4J	ug/L	100	10/18/21 11:32	
EPA 8260	Tetrachloroethene	7.9	ug/L	1.0	10/18/21 11:32	
EPA 8260	Trichloroethene	5.1	ug/L	1.0	10/18/21 11:32	
EPA 8260	cis-1,2-Dichloroethene	1.0	ug/L	1.0	10/18/21 11:32	
40234869011	SVE-5'					
EPA 8260	1,1,1-Trichloroethane	2.9	ug/L	2.5	10/18/21 14:39	
EPA 8260	1,1-Dichloroethane	51.9	ug/L	2.5	10/18/21 14:39	
EPA 8260	1,2,4-Trimethylbenzene	183	ug/L	2.5	10/18/21 14:39	
EPA 8260	1,2-Dichlorobenzene	14.0	ug/L	2.5	10/18/21 14:39	
EPA 8260	1,3,5-Trimethylbenzene	48.9	ug/L	2.5	10/18/21 14:39	
EPA 8260	Benzene	1.4J	ug/L	2.5	10/18/21 14:39	
EPA 8260	Chloroethane	130	ug/L	12.5	10/18/21 14:39	
EPA 8260	Ethylbenzene	1070	ug/L	40.0	10/18/21 17:38	
EPA 8260	Isopropylbenzene (Cumene)	23.4	ug/L	12.5	10/18/21 14:39	
EPA 8260	Methylene Chloride	5.1J	ug/L	12.5	10/18/21 14:39	
EPA 8260	Naphthalene	22.8	ug/L	12.5	10/18/21 14:39	
EPA 8260	Toluene	532	ug/L	2.5	10/18/21 14:39	
EPA 8260	Trichloroethene	1.0J	ug/L	2.5	10/18/21 14:39	
EPA 8260	Vinyl chloride	4.3	ug/L	2.5	10/18/21 14:39	
EPA 8260	Xylene (Total)	3760	ug/L	120	10/18/21 17:38	
EPA 8260	cis-1,2-Dichloroethene	29.2	ug/L	2.5	10/18/21 14:39	
EPA 8260	m&p-Xylene	3180	ug/L	80.0	10/18/21 17:38	
EPA 8260	n-Propylbenzene	32.0	ug/L	2.5	10/18/21 14:39	
EPA 8260	o-Xylene	574	ug/L	2.5	10/18/21 14:39	
EPA 8260	sec-Butylbenzene	2.1J	ug/L	2.5	10/18/21 14:39	
40234869012	SVE-7'					
EPA 8260	1,1,1-Trichloroethane	10000	ug/L	200	10/18/21 12:46	
EPA 8260	1,1,2-Trichloroethane	466J	ug/L	1000	10/18/21 12:46	
EPA 8260	1,1-Dichloroethane	440	ug/L	200	10/18/21 12:46	
EPA 8260	1,1-Dichloroethene	137J	ug/L	200	10/18/21 12:46	
EPA 8260	1,2-Dichlorobenzene	170J	ug/L	200	10/18/21 12:46	
EPA 8260	1,2-Dichloropropane	120J	ug/L	200	10/18/21 12:46	
EPA 8260	Tetrachloroethene	6520	ug/L	200	10/18/21 12:46	
EPA 8260	Trichloroethene	14600	ug/L	200	10/18/21 12:46	
EPA 8260	cis-1,2-Dichloroethene	811	ug/L	200	10/18/21 12:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 55929.005 WRR

Pace Project No.: 40234869

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40234869012	SVE-7'					
EPA 8260	o-Xylene	74.2J	ug/L	200	10/18/21 12:46	
40234869013	W-27'					
EPA 8260	1,1-Dichloroethane	2.8	ug/L	1.0	10/18/21 09:03	
EPA 8260	Benzene	0.51J	ug/L	1.0	10/18/21 09:03	
EPA 8260	Chloroethane	1.5J	ug/L	5.0	10/18/21 09:03	
EPA 8260	Ethylbenzene	5.6	ug/L	1.0	10/18/21 09:03	
EPA 8260	Toluene	0.44J	ug/L	1.0	10/18/21 09:03	
EPA 8260	Trichloroethene	1.1	ug/L	1.0	10/18/21 09:03	
EPA 8260	Vinyl chloride	5.6	ug/L	1.0	10/18/21 09:03	
EPA 8260	Xylene (Total)	2.1J	ug/L	3.0	10/18/21 09:03	
EPA 8260	cis-1,2-Dichloroethene	4.3	ug/L	1.0	10/18/21 09:03	
EPA 8260	m&p-Xylene	1.8J	ug/L	2.0	10/18/21 09:03	
EPA 8260	o-Xylene	0.36J	ug/L	1.0	10/18/21 09:03	
40234869014	MW-115B'					
EPA 8260	Trichloroethene	0.63J	ug/L	1.0	10/18/21 09:59	
40234869015	MW-115A					
EPA 8260	1,1,2-Trichloroethane	28.6J	ug/L	200	10/18/21 13:23	
EPA 8260	1,1-Dichloroethane	403	ug/L	40.0	10/18/21 13:23	
EPA 8260	1,1-Dichloroethene	47.8	ug/L	40.0	10/18/21 13:23	
EPA 8260	1,2-Dichloropropane	18.6J	ug/L	40.0	10/18/21 13:23	
EPA 8260	Trichloroethene	71.1	ug/L	40.0	10/18/21 13:23	
EPA 8260	Vinyl chloride	8.4J	ug/L	40.0	10/18/21 13:23	
EPA 8260	cis-1,2-Dichloroethene	1820	ug/L	40.0	10/18/21 13:23	
EPA 8260	trans-1,2-Dichloroethene	190	ug/L	40.0	10/18/21 13:23	
40234869016	MW-17B					
EPA 8260	1,1-Dichloroethane	0.34J	ug/L	1.0	10/18/21 11:50	
EPA 8260	Trichloroethene	0.97J	ug/L	1.0	10/18/21 11:50	
40234869018	W-26					
EPA 8260	1,1-Dichloroethane	0.72J	ug/L	1.0	10/18/21 09:22	
EPA 8260	2-Propanol	11.1J	ug/L	100	10/18/21 09:22	
EPA 8260	Trichloroethene	32.2	ug/L	1.0	10/18/21 09:22	
EPA 8260	Vinyl chloride	2.3	ug/L	1.0	10/18/21 09:22	
EPA 8260	cis-1,2-Dichloroethene	14.4	ug/L	1.0	10/18/21 09:22	
EPA 8260	trans-1,2-Dichloroethene	7.3	ug/L	1.0	10/18/21 09:22	
40234869020	MW-115					
EPA 8260	1,1-Dichloroethane	43.9	ug/L	4.0	10/18/21 14:20	
EPA 8260	1,2-Dichloroethane	36.5	ug/L	4.0	10/18/21 14:20	
EPA 8260	Benzene	10.9	ug/L	4.0	10/18/21 14:20	
EPA 8260	Chloroethane	1230	ug/L	100	10/18/21 17:57	
EPA 8260	Toluene	150	ug/L	4.0	10/18/21 14:20	
EPA 8260	Vinyl chloride	8.1	ug/L	4.0	10/18/21 14:20	
EPA 8260	cis-1,2-Dichloroethene	13.1	ug/L	4.0	10/18/21 14:20	
EPA 8260	o-Xylene	2.2J	ug/L	4.0	10/18/21 14:20	
EPA 8260	trans-1,2-Dichloroethene	25.2	ug/L	4.0	10/18/21 14:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-2' **Lab ID: 40234869001** Collected: 10/07/21 10:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 09:41	630-20-6	
1,1,1-Trichloroethane	3.5	ug/L	1.0	0.30	1		10/18/21 09:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 09:41	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 09:41	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:41	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 09:41	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:41	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:41	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 09:41	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 09:41	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 09:41	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 09:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 09:41	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:41	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 09:41	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 09:41	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:41	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:41	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:41	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 09:41	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 09:41	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 09:41	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:41	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 09:41	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 09:41	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 09:41	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 09:41	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 09:41	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:41	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 09:41	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 09:41	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 09:41	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:41	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 09:41	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 09:41	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 09:41	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 09:41	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 09:41	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 09:41	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:41	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:41	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 09:41	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 09:41	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR
Pace Project No.: 40234869

Sample: W-2' **Lab ID: 40234869001** Collected: 10/07/21 10:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:41	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 09:41	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 09:41	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:41	100-42-5	
Tetrachloroethene	20.1	ug/L	1.0	0.41	1		10/18/21 09:41	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 09:41	108-88-3	
Trichloroethene	1.2	ug/L	1.0	0.32	1		10/18/21 09:41	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:41	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 09:41	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 09:41	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/18/21 09:41	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:41	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 09:41	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:41	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:41	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:41	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:41	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 09:41	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 09:41	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 09:41	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 09:41	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 09:41	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		10/18/21 09:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/18/21 09:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-32' **Lab ID: 40234869002** Collected: 10/07/21 16:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		10/18/21 17:01	630-20-6	
1,1,1-Trichloroethane	1690	ug/L	10.0	3.0	10		10/18/21 17:01	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		10/18/21 17:01	79-34-5	
1,1,2-Trichloroethane	16.1J	ug/L	50.0	3.4	10		10/18/21 17:01	79-00-5	
1,1-Dichloroethane	65.7	ug/L	10.0	3.0	10		10/18/21 17:01	75-34-3	
1,1-Dichloroethene	96.5	ug/L	10.0	5.8	10		10/18/21 17:01	75-35-4	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		10/18/21 17:01	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		10/18/21 17:01	87-61-6	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		10/18/21 17:01	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		10/18/21 17:01	120-82-1	
1,2,4-Trimethylbenzene	<4.5	ug/L	10.0	4.5	10		10/18/21 17:01	95-63-6	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		10/18/21 17:01	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		10/18/21 17:01	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		10/18/21 17:01	95-50-1	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		10/18/21 17:01	107-06-2	
1,2-Dichloropropane	13.8	ug/L	10.0	4.5	10		10/18/21 17:01	78-87-5	
1,3,5-Trimethylbenzene	<3.6	ug/L	10.0	3.6	10		10/18/21 17:01	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		10/18/21 17:01	541-73-1	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		10/18/21 17:01	142-28-9	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		10/18/21 17:01	106-46-7	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		10/18/21 17:01	594-20-7	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		10/18/21 17:01	78-93-3	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/18/21 17:01	95-49-8	
2-Propanol	<98.5	ug/L	1000	98.5	10		10/18/21 17:01	67-63-0	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		10/18/21 17:01	106-43-4	
4-Methyl-2-pentanone (MIBK)	<59.5	ug/L	250	59.5	10		10/18/21 17:01	108-10-1	
Acetone	<86.4	ug/L	250	86.4	10		10/18/21 17:01	67-64-1	
Benzene	<3.0	ug/L	10.0	3.0	10		10/18/21 17:01	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		10/18/21 17:01	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		10/18/21 17:01	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		10/18/21 17:01	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		10/18/21 17:01	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		10/18/21 17:01	74-83-9	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		10/18/21 17:01	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		10/18/21 17:01	108-90-7	
Chloroethane	<13.8	ug/L	50.0	13.8	10		10/18/21 17:01	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		10/18/21 17:01	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		10/18/21 17:01	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		10/18/21 17:01	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		10/18/21 17:01	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		10/18/21 17:01	75-71-8	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		10/18/21 17:01	108-20-3	
Ethylbenzene	<3.3	ug/L	10.0	3.3	10		10/18/21 17:01	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		10/18/21 17:01	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	50.0	10.0	10		10/18/21 17:01	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-32' **Lab ID: 40234869002** Collected: 10/07/21 16:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		10/18/21 17:01	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		10/18/21 17:01	75-09-2	
Naphthalene	<11.3	ug/L	50.0	11.3	10		10/18/21 17:01	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		10/18/21 17:01	100-42-5	
Tetrachloroethene	1460	ug/L	10.0	4.1	10		10/18/21 17:01	127-18-4	
Toluene	<2.9	ug/L	10.0	2.9	10		10/18/21 17:01	108-88-3	
Trichloroethene	2110	ug/L	10.0	3.2	10		10/18/21 17:01	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		10/18/21 17:01	75-69-4	
Vinyl chloride	11.1	ug/L	10.0	1.7	10		10/18/21 17:01	75-01-4	
Xylene (Total)	<10.5	ug/L	30.0	10.5	10		10/18/21 17:01	1330-20-7	
cis-1,2-Dichloroethene	858	ug/L	10.0	4.7	10		10/18/21 17:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		10/18/21 17:01	10061-01-5	
m&p-Xylene	<7.0	ug/L	20.0	7.0	10		10/18/21 17:01	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		10/18/21 17:01	104-51-8	
n-Propylbenzene	<3.5	ug/L	10.0	3.5	10		10/18/21 17:01	103-65-1	
o-Xylene	<3.5	ug/L	10.0	3.5	10		10/18/21 17:01	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		10/18/21 17:01	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		10/18/21 17:01	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		10/18/21 17:01	98-06-6	
trans-1,2-Dichloroethene	<5.3	ug/L	10.0	5.3	10		10/18/21 17:01	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		10/18/21 17:01	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		10/18/21 17:01	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		10		10/18/21 17:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		10		10/18/21 17:01	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-33' **Lab ID: 40234869003** Collected: 10/07/21 15:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<17.8	ug/L	50.0	17.8	50		10/18/21 13:04	630-20-6	
1,1,1-Trichloroethane	207	ug/L	50.0	15.1	50		10/18/21 13:04	71-55-6	
1,1,2,2-Tetrachloroethane	<18.9	ug/L	50.0	18.9	50		10/18/21 13:04	79-34-5	
1,1,2-Trichloroethane	22.7J	ug/L	250	17.2	50		10/18/21 13:04	79-00-5	
1,1-Dichloroethane	1050	ug/L	50.0	14.8	50		10/18/21 13:04	75-34-3	
1,1-Dichloroethene	<29.1	ug/L	50.0	29.1	50		10/18/21 13:04	75-35-4	
1,1-Dichloropropene	<20.5	ug/L	50.0	20.5	50		10/18/21 13:04	563-58-6	
1,2,3-Trichlorobenzene	<50.9	ug/L	250	50.9	50		10/18/21 13:04	87-61-6	
1,2,3-Trichloropropane	<27.8	ug/L	250	27.8	50		10/18/21 13:04	96-18-4	
1,2,4-Trichlorobenzene	<47.5	ug/L	250	47.5	50		10/18/21 13:04	120-82-1	
1,2,4-Trimethylbenzene	69.1	ug/L	50.0	22.4	50		10/18/21 13:04	95-63-6	
1,2-Dibromo-3-chloropropane	<118	ug/L	250	118	50		10/18/21 13:04	96-12-8	
1,2-Dibromoethane (EDB)	<15.5	ug/L	50.0	15.5	50		10/18/21 13:04	106-93-4	
1,2-Dichlorobenzene	23.1J	ug/L	50.0	16.3	50		10/18/21 13:04	95-50-1	
1,2-Dichloroethane	42.1J	ug/L	50.0	14.6	50		10/18/21 13:04	107-06-2	
1,2-Dichloropropane	<22.4	ug/L	50.0	22.4	50		10/18/21 13:04	78-87-5	
1,3,5-Trimethylbenzene	24.5J	ug/L	50.0	17.9	50		10/18/21 13:04	108-67-8	
1,3-Dichlorobenzene	<17.6	ug/L	50.0	17.6	50		10/18/21 13:04	541-73-1	
1,3-Dichloropropane	<15.2	ug/L	50.0	15.2	50		10/18/21 13:04	142-28-9	
1,4-Dichlorobenzene	<44.6	ug/L	50.0	44.6	50		10/18/21 13:04	106-46-7	
2,2-Dichloropropane	<209	ug/L	250	209	50		10/18/21 13:04	594-20-7	
2-Butanone (MEK)	<326	ug/L	1250	326	50		10/18/21 13:04	78-93-3	
2-Chlorotoluene	<44.5	ug/L	250	44.5	50		10/18/21 13:04	95-49-8	
2-Propanol	<493	ug/L	5000	493	50		10/18/21 13:04	67-63-0	
4-Chlorotoluene	<44.7	ug/L	250	44.7	50		10/18/21 13:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<298	ug/L	1250	298	50		10/18/21 13:04	108-10-1	
Acetone	<432	ug/L	1250	432	50		10/18/21 13:04	67-64-1	
Benzene	<14.8	ug/L	50.0	14.8	50		10/18/21 13:04	71-43-2	
Bromobenzene	<18.0	ug/L	50.0	18.0	50		10/18/21 13:04	108-86-1	
Bromochloromethane	<17.9	ug/L	250	17.9	50		10/18/21 13:04	74-97-5	
Bromodichloromethane	<20.8	ug/L	50.0	20.8	50		10/18/21 13:04	75-27-4	
Bromoform	<190	ug/L	250	190	50		10/18/21 13:04	75-25-2	
Bromomethane	<59.6	ug/L	250	59.6	50		10/18/21 13:04	74-83-9	
Carbon tetrachloride	<18.5	ug/L	50.0	18.5	50		10/18/21 13:04	56-23-5	
Chlorobenzene	<42.8	ug/L	50.0	42.8	50		10/18/21 13:04	108-90-7	
Chloroethane	704	ug/L	250	69.0	50		10/18/21 13:04	75-00-3	
Chloroform	<59.1	ug/L	250	59.1	50		10/18/21 13:04	67-66-3	
Chloromethane	<81.8	ug/L	250	81.8	50		10/18/21 13:04	74-87-3	
Dibromochloromethane	<132	ug/L	250	132	50		10/18/21 13:04	124-48-1	
Dibromomethane	<49.5	ug/L	250	49.5	50		10/18/21 13:04	74-95-3	
Dichlorodifluoromethane	<22.8	ug/L	250	22.8	50		10/18/21 13:04	75-71-8	
Diisopropyl ether	<55.0	ug/L	250	55.0	50		10/18/21 13:04	108-20-3	
Ethylbenzene	260	ug/L	50.0	16.3	50		10/18/21 13:04	100-41-4	
Hexachloro-1,3-butadiene	<137	ug/L	250	137	50		10/18/21 13:04	87-68-3	
Isopropylbenzene (Cumene)	<50.0	ug/L	250	50.0	50		10/18/21 13:04	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-33' **Lab ID: 40234869003** Collected: 10/07/21 15:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<56.5	ug/L	250	56.5	50		10/18/21 13:04	1634-04-4	
Methylene Chloride	437	ug/L	250	16.0	50		10/18/21 13:04	75-09-2	
Naphthalene	<56.5	ug/L	250	56.5	50		10/18/21 13:04	91-20-3	
Styrene	<17.8	ug/L	50.0	17.8	50		10/18/21 13:04	100-42-5	
Tetrachloroethene	<20.4	ug/L	50.0	20.4	50		10/18/21 13:04	127-18-4	
Toluene	770	ug/L	50.0	14.4	50		10/18/21 13:04	108-88-3	
Trichloroethene	<16.0	ug/L	50.0	16.0	50		10/18/21 13:04	79-01-6	
Trichlorofluoromethane	<20.9	ug/L	50.0	20.9	50		10/18/21 13:04	75-69-4	
Vinyl chloride	292	ug/L	50.0	8.7	50		10/18/21 13:04	75-01-4	
Xylene (Total)	1210	ug/L	150	52.4	50		10/18/21 13:04	1330-20-7	
cis-1,2-Dichloroethene	2180	ug/L	50.0	23.6	50		10/18/21 13:04	156-59-2	
cis-1,3-Dichloropropene	<17.9	ug/L	50.0	17.9	50		10/18/21 13:04	10061-01-5	
m&p-Xylene	899	ug/L	100	35.0	50		10/18/21 13:04	179601-23-1	
n-Butylbenzene	<42.9	ug/L	50.0	42.9	50		10/18/21 13:04	104-51-8	
n-Propylbenzene	<17.3	ug/L	50.0	17.3	50		10/18/21 13:04	103-65-1	
o-Xylene	308	ug/L	50.0	17.4	50		10/18/21 13:04	95-47-6	
p-Isopropyltoluene	<52.2	ug/L	250	52.2	50		10/18/21 13:04	99-87-6	
sec-Butylbenzene	<21.2	ug/L	50.0	21.2	50		10/18/21 13:04	135-98-8	
tert-Butylbenzene	<29.3	ug/L	50.0	29.3	50		10/18/21 13:04	98-06-6	
trans-1,2-Dichloroethene	<26.4	ug/L	50.0	26.4	50		10/18/21 13:04	156-60-5	
trans-1,3-Dichloropropene	<173	ug/L	250	173	50		10/18/21 13:04	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		50		10/18/21 13:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		50		10/18/21 13:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		50		10/18/21 13:04	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-34' **Lab ID: 40234869004** Collected: 10/07/21 11:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.89	ug/L	2.5	0.89	2.5		10/18/21 16:42	630-20-6	
1,1,1-Trichloroethane	326	ug/L	2.5	0.76	2.5		10/18/21 16:42	71-55-6	
1,1,2,2-Tetrachloroethane	<0.94	ug/L	2.5	0.94	2.5		10/18/21 16:42	79-34-5	
1,1,2-Trichloroethane	207	ug/L	12.5	0.86	2.5		10/18/21 16:42	79-00-5	
1,1-Dichloroethane	144	ug/L	2.5	0.74	2.5		10/18/21 16:42	75-34-3	
1,1-Dichloroethene	<1.5	ug/L	2.5	1.5	2.5		10/18/21 16:42	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	2.5	1.0	2.5		10/18/21 16:42	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	12.5	2.5	2.5		10/18/21 16:42	87-61-6	
1,2,3-Trichloropropane	<1.4	ug/L	12.5	1.4	2.5		10/18/21 16:42	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		10/18/21 16:42	120-82-1	
1,2,4-Trimethylbenzene	2.2J	ug/L	2.5	1.1	2.5		10/18/21 16:42	95-63-6	
1,2-Dibromo-3-chloropropane	<5.9	ug/L	12.5	5.9	2.5		10/18/21 16:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.77	ug/L	2.5	0.77	2.5		10/18/21 16:42	106-93-4	
1,2-Dichlorobenzene	10.8	ug/L	2.5	0.81	2.5		10/18/21 16:42	95-50-1	
1,2-Dichloroethane	14.3	ug/L	2.5	0.73	2.5		10/18/21 16:42	107-06-2	
1,2-Dichloropropane	9.1	ug/L	2.5	1.1	2.5		10/18/21 16:42	78-87-5	
1,3,5-Trimethylbenzene	1.1J	ug/L	2.5	0.89	2.5		10/18/21 16:42	108-67-8	
1,3-Dichlorobenzene	<0.88	ug/L	2.5	0.88	2.5		10/18/21 16:42	541-73-1	
1,3-Dichloropropane	<0.76	ug/L	2.5	0.76	2.5		10/18/21 16:42	142-28-9	
1,4-Dichlorobenzene	2.3J	ug/L	2.5	2.2	2.5		10/18/21 16:42	106-46-7	
2,2-Dichloropropane	<10.4	ug/L	12.5	10.4	2.5		10/18/21 16:42	594-20-7	
2-Butanone (MEK)	<16.3	ug/L	62.5	16.3	2.5		10/18/21 16:42	78-93-3	
2-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		10/18/21 16:42	95-49-8	
2-Propanol	<24.6	ug/L	250	24.6	2.5		10/18/21 16:42	67-63-0	
4-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		10/18/21 16:42	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.9	ug/L	62.5	14.9	2.5		10/18/21 16:42	108-10-1	
Acetone	<21.6	ug/L	62.5	21.6	2.5		10/18/21 16:42	67-64-1	
Benzene	<0.74	ug/L	2.5	0.74	2.5		10/18/21 16:42	71-43-2	
Bromobenzene	<0.90	ug/L	2.5	0.90	2.5		10/18/21 16:42	108-86-1	
Bromochloromethane	<0.89	ug/L	12.5	0.89	2.5		10/18/21 16:42	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.5	1.0	2.5		10/18/21 16:42	75-27-4	
Bromoform	<9.5	ug/L	12.5	9.5	2.5		10/18/21 16:42	75-25-2	
Bromomethane	<3.0	ug/L	12.5	3.0	2.5		10/18/21 16:42	74-83-9	
Carbon tetrachloride	<0.92	ug/L	2.5	0.92	2.5		10/18/21 16:42	56-23-5	
Chlorobenzene	<2.1	ug/L	2.5	2.1	2.5		10/18/21 16:42	108-90-7	
Chloroethane	3.8J	ug/L	12.5	3.4	2.5		10/18/21 16:42	75-00-3	
Chloroform	<3.0	ug/L	12.5	3.0	2.5		10/18/21 16:42	67-66-3	
Chloromethane	<4.1	ug/L	12.5	4.1	2.5		10/18/21 16:42	74-87-3	
Dibromochloromethane	<6.6	ug/L	12.5	6.6	2.5		10/18/21 16:42	124-48-1	
Dibromomethane	<2.5	ug/L	12.5	2.5	2.5		10/18/21 16:42	74-95-3	
Dichlorodifluoromethane	<1.1	ug/L	12.5	1.1	2.5		10/18/21 16:42	75-71-8	
Diisopropyl ether	<2.8	ug/L	12.5	2.8	2.5		10/18/21 16:42	108-20-3	
Ethylbenzene	15.8	ug/L	2.5	0.81	2.5		10/18/21 16:42	100-41-4	
Hexachloro-1,3-butadiene	<6.8	ug/L	12.5	6.8	2.5		10/18/21 16:42	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/L	12.5	2.5	2.5		10/18/21 16:42	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-34' **Lab ID: 40234869004** Collected: 10/07/21 11:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		10/18/21 16:42	1634-04-4	
Methylene Chloride	5.4J	ug/L	12.5	0.80	2.5		10/18/21 16:42	75-09-2	
Naphthalene	<2.8	ug/L	12.5	2.8	2.5		10/18/21 16:42	91-20-3	
Styrene	<0.89	ug/L	2.5	0.89	2.5		10/18/21 16:42	100-42-5	
Tetrachloroethene	<1.0	ug/L	2.5	1.0	2.5		10/18/21 16:42	127-18-4	
Toluene	4.2	ug/L	2.5	0.72	2.5		10/18/21 16:42	108-88-3	
Trichloroethene	0.87J	ug/L	2.5	0.80	2.5		10/18/21 16:42	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	2.5	1.0	2.5		10/18/21 16:42	75-69-4	
Vinyl chloride	92.6	ug/L	2.5	0.44	2.5		10/18/21 16:42	75-01-4	
Xylene (Total)	64.9	ug/L	7.5	2.6	2.5		10/18/21 16:42	1330-20-7	
cis-1,2-Dichloroethene	42.6	ug/L	2.5	1.2	2.5		10/18/21 16:42	156-59-2	
cis-1,3-Dichloropropene	<0.90	ug/L	2.5	0.90	2.5		10/18/21 16:42	10061-01-5	
m&p-Xylene	37.1	ug/L	5.0	1.8	2.5		10/18/21 16:42	179601-23-1	
n-Butylbenzene	<2.1	ug/L	2.5	2.1	2.5		10/18/21 16:42	104-51-8	
n-Propylbenzene	<0.86	ug/L	2.5	0.86	2.5		10/18/21 16:42	103-65-1	
o-Xylene	27.8	ug/L	2.5	0.87	2.5		10/18/21 16:42	95-47-6	
p-Isopropyltoluene	<2.6	ug/L	12.5	2.6	2.5		10/18/21 16:42	99-87-6	
sec-Butylbenzene	<1.1	ug/L	2.5	1.1	2.5		10/18/21 16:42	135-98-8	
tert-Butylbenzene	<1.5	ug/L	2.5	1.5	2.5		10/18/21 16:42	98-06-6	
trans-1,2-Dichloroethene	<1.3	ug/L	2.5	1.3	2.5		10/18/21 16:42	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	12.5	8.7	2.5		10/18/21 16:42	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		2.5		10/18/21 16:42	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		2.5		10/18/21 16:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2.5		10/18/21 16:42	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-35' **Lab ID: 40234869005** Collected: 10/07/21 13:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 10:55	630-20-6	
1,1,1-Trichloroethane	28.7	ug/L	1.0	0.30	1		10/18/21 10:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 10:55	79-34-5	
1,1,2-Trichloroethane	2.0J	ug/L	5.0	0.34	1		10/18/21 10:55	79-00-5	
1,1-Dichloroethane	61.6	ug/L	1.0	0.30	1		10/18/21 10:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 10:55	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 10:55	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:55	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 10:55	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 10:55	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 10:55	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 10:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 10:55	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:55	95-50-1	
1,2-Dichloroethane	1.0	ug/L	1.0	0.29	1		10/18/21 10:55	107-06-2	
1,2-Dichloropropane	1.4	ug/L	1.0	0.45	1		10/18/21 10:55	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:55	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:55	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:55	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 10:55	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 10:55	594-20-7	
2-Butanone (MEK)	21.2J	ug/L	25.0	6.5	1		10/18/21 10:55	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:55	95-49-8	
2-Propanol	26.3J	ug/L	100	9.9	1		10/18/21 10:55	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 10:55	108-10-1	
Acetone	21.0J	ug/L	25.0	8.6	1		10/18/21 10:55	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 10:55	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 10:55	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 10:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 10:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 10:55	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 10:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 10:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 10:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 10:55	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 10:55	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 10:55	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 10:55	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 10:55	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:55	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 10:55	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 10:55	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-35' **Lab ID: 40234869005** Collected: 10/07/21 13:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	3.1J	ug/L	5.0	1.1	1		10/18/21 10:55	1634-04-4	
Methylene Chloride	1.1J	ug/L	5.0	0.32	1		10/18/21 10:55	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 10:55	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:55	100-42-5	
Tetrachloroethene	1.9	ug/L	1.0	0.41	1		10/18/21 10:55	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 10:55	108-88-3	
Trichloroethene	1.4	ug/L	1.0	0.32	1		10/18/21 10:55	79-01-6	
Trichlorofluoromethane	0.53J	ug/L	1.0	0.42	1		10/18/21 10:55	75-69-4	
Vinyl chloride	9.2	ug/L	1.0	0.17	1		10/18/21 10:55	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 10:55	1330-20-7	
cis-1,2-Dichloroethene	13.0	ug/L	1.0	0.47	1		10/18/21 10:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:55	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 10:55	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:55	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:55	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:55	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:55	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 10:55	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 10:55	98-06-6	
trans-1,2-Dichloroethene	5.9	ug/L	1.0	0.53	1		10/18/21 10:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 10:55	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		10/18/21 10:55	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		10/18/21 10:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/18/21 10:55	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111A **Lab ID: 40234869006** Collected: 10/06/21 12:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	630-20-6	
1,1,1-Trichloroethane	<1.5	ug/L	5.0	1.5	5		10/18/21 14:01	71-55-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/L	5.0	1.9	5		10/18/21 14:01	79-34-5	
1,1,2-Trichloroethane	<1.7	ug/L	25.0	1.7	5		10/18/21 14:01	79-00-5	
1,1-Dichloroethane	5.2	ug/L	5.0	1.5	5		10/18/21 14:01	75-34-3	
1,1-Dichloroethene	<2.9	ug/L	5.0	2.9	5		10/18/21 14:01	75-35-4	
1,1-Dichloropropene	<2.1	ug/L	5.0	2.1	5		10/18/21 14:01	563-58-6	
1,2,3-Trichlorobenzene	<5.1	ug/L	25.0	5.1	5		10/18/21 14:01	87-61-6	
1,2,3-Trichloropropane	<2.8	ug/L	25.0	2.8	5		10/18/21 14:01	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		10/18/21 14:01	120-82-1	
1,2,4-Trimethylbenzene	<2.2	ug/L	5.0	2.2	5		10/18/21 14:01	95-63-6	
1,2-Dibromo-3-chloropropane	<11.8	ug/L	25.0	11.8	5		10/18/21 14:01	96-12-8	
1,2-Dibromoethane (EDB)	<1.5	ug/L	5.0	1.5	5		10/18/21 14:01	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/L	5.0	1.6	5		10/18/21 14:01	95-50-1	
1,2-Dichloroethane	1.8J	ug/L	5.0	1.5	5		10/18/21 14:01	107-06-2	
1,2-Dichloropropane	<2.2	ug/L	5.0	2.2	5		10/18/21 14:01	78-87-5	
1,3,5-Trimethylbenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	108-67-8	
1,3-Dichlorobenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	541-73-1	
1,3-Dichloropropane	<1.5	ug/L	5.0	1.5	5		10/18/21 14:01	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/L	5.0	4.5	5		10/18/21 14:01	106-46-7	
2,2-Dichloropropane	<20.9	ug/L	25.0	20.9	5		10/18/21 14:01	594-20-7	
2-Butanone (MEK)	<32.6	ug/L	125	32.6	5		10/18/21 14:01	78-93-3	
2-Chlorotoluene	<4.4	ug/L	25.0	4.4	5		10/18/21 14:01	95-49-8	
2-Propanol	<49.3	ug/L	500	49.3	5		10/18/21 14:01	67-63-0	
4-Chlorotoluene	<4.5	ug/L	25.0	4.5	5		10/18/21 14:01	106-43-4	
4-Methyl-2-pentanone (MIBK)	<29.8	ug/L	125	29.8	5		10/18/21 14:01	108-10-1	
Acetone	<43.2	ug/L	125	43.2	5		10/18/21 14:01	67-64-1	
Benzene	1.5J	ug/L	5.0	1.5	5		10/18/21 14:01	71-43-2	
Bromobenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		10/18/21 14:01	74-97-5	
Bromodichloromethane	<2.1	ug/L	5.0	2.1	5		10/18/21 14:01	75-27-4	
Bromoform	<19.0	ug/L	25.0	19.0	5		10/18/21 14:01	75-25-2	
Bromomethane	<6.0	ug/L	25.0	6.0	5		10/18/21 14:01	74-83-9	
Carbon tetrachloride	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	56-23-5	
Chlorobenzene	<4.3	ug/L	5.0	4.3	5		10/18/21 14:01	108-90-7	
Chloroethane	206	ug/L	25.0	6.9	5		10/18/21 14:01	75-00-3	
Chloroform	<5.9	ug/L	25.0	5.9	5		10/18/21 14:01	67-66-3	
Chloromethane	<8.2	ug/L	25.0	8.2	5		10/18/21 14:01	74-87-3	
Dibromochloromethane	<13.2	ug/L	25.0	13.2	5		10/18/21 14:01	124-48-1	
Dibromomethane	<5.0	ug/L	25.0	5.0	5		10/18/21 14:01	74-95-3	
Dichlorodifluoromethane	<2.3	ug/L	25.0	2.3	5		10/18/21 14:01	75-71-8	
Diisopropyl ether	<5.5	ug/L	25.0	5.5	5		10/18/21 14:01	108-20-3	
Ethylbenzene	<1.6	ug/L	5.0	1.6	5		10/18/21 14:01	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/L	25.0	13.7	5		10/18/21 14:01	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	25.0	5.0	5		10/18/21 14:01	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111A **Lab ID: 40234869006** Collected: 10/06/21 12:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<5.6	ug/L	25.0	5.6	5		10/18/21 14:01	1634-04-4	
Methylene Chloride	<1.6	ug/L	25.0	1.6	5		10/18/21 14:01	75-09-2	
Naphthalene	<5.6	ug/L	25.0	5.6	5		10/18/21 14:01	91-20-3	
Styrene	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	100-42-5	
Tetrachloroethene	<2.0	ug/L	5.0	2.0	5		10/18/21 14:01	127-18-4	
Toluene	10.8	ug/L	5.0	1.4	5		10/18/21 14:01	108-88-3	
Trichloroethene	<1.6	ug/L	5.0	1.6	5		10/18/21 14:01	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	5.0	2.1	5		10/18/21 14:01	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		10/18/21 14:01	75-01-4	
Xylene (Total)	<5.2	ug/L	15.0	5.2	5		10/18/21 14:01	1330-20-7	
cis-1,2-Dichloroethene	<2.4	ug/L	5.0	2.4	5		10/18/21 14:01	156-59-2	
cis-1,3-Dichloropropene	<1.8	ug/L	5.0	1.8	5		10/18/21 14:01	10061-01-5	
m&p-Xylene	<3.5	ug/L	10.0	3.5	5		10/18/21 14:01	179601-23-1	
n-Butylbenzene	<4.3	ug/L	5.0	4.3	5		10/18/21 14:01	104-51-8	
n-Propylbenzene	<1.7	ug/L	5.0	1.7	5		10/18/21 14:01	103-65-1	
o-Xylene	<1.7	ug/L	5.0	1.7	5		10/18/21 14:01	95-47-6	
p-Isopropyltoluene	<5.2	ug/L	25.0	5.2	5		10/18/21 14:01	99-87-6	
sec-Butylbenzene	<2.1	ug/L	5.0	2.1	5		10/18/21 14:01	135-98-8	
tert-Butylbenzene	<2.9	ug/L	5.0	2.9	5		10/18/21 14:01	98-06-6	
trans-1,2-Dichloroethene	6.4	ug/L	5.0	2.6	5		10/18/21 14:01	156-60-5	
trans-1,3-Dichloropropene	<17.3	ug/L	25.0	17.3	5		10/18/21 14:01	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		5		10/18/21 14:01	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		5		10/18/21 14:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		5		10/18/21 14:01	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111A DUP **Lab ID: 40234869007** Collected: 10/06/21 12:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	630-20-6	
1,1,1-Trichloroethane	<1.5	ug/L	5.0	1.5	5		10/18/21 13:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/L	5.0	1.9	5		10/18/21 13:41	79-34-5	
1,1,2-Trichloroethane	<1.7	ug/L	25.0	1.7	5		10/18/21 13:41	79-00-5	
1,1-Dichloroethane	5.4	ug/L	5.0	1.5	5		10/18/21 13:41	75-34-3	
1,1-Dichloroethene	<2.9	ug/L	5.0	2.9	5		10/18/21 13:41	75-35-4	
1,1-Dichloropropene	<2.1	ug/L	5.0	2.1	5		10/18/21 13:41	563-58-6	
1,2,3-Trichlorobenzene	<5.1	ug/L	25.0	5.1	5		10/18/21 13:41	87-61-6	
1,2,3-Trichloropropane	<2.8	ug/L	25.0	2.8	5		10/18/21 13:41	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		10/18/21 13:41	120-82-1	
1,2,4-Trimethylbenzene	<2.2	ug/L	5.0	2.2	5		10/18/21 13:41	95-63-6	
1,2-Dibromo-3-chloropropane	<11.8	ug/L	25.0	11.8	5		10/18/21 13:41	96-12-8	
1,2-Dibromoethane (EDB)	<1.5	ug/L	5.0	1.5	5		10/18/21 13:41	106-93-4	
1,2-Dichlorobenzene	<1.6	ug/L	5.0	1.6	5		10/18/21 13:41	95-50-1	
1,2-Dichloroethane	1.8J	ug/L	5.0	1.5	5		10/18/21 13:41	107-06-2	
1,2-Dichloropropane	<2.2	ug/L	5.0	2.2	5		10/18/21 13:41	78-87-5	
1,3,5-Trimethylbenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	108-67-8	
1,3-Dichlorobenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	541-73-1	
1,3-Dichloropropane	<1.5	ug/L	5.0	1.5	5		10/18/21 13:41	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/L	5.0	4.5	5		10/18/21 13:41	106-46-7	
2,2-Dichloropropane	<20.9	ug/L	25.0	20.9	5		10/18/21 13:41	594-20-7	
2-Butanone (MEK)	<32.6	ug/L	125	32.6	5		10/18/21 13:41	78-93-3	
2-Chlorotoluene	<4.4	ug/L	25.0	4.4	5		10/18/21 13:41	95-49-8	
2-Propanol	<49.3	ug/L	500	49.3	5		10/18/21 13:41	67-63-0	
4-Chlorotoluene	<4.5	ug/L	25.0	4.5	5		10/18/21 13:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<29.8	ug/L	125	29.8	5		10/18/21 13:41	108-10-1	
Acetone	<43.2	ug/L	125	43.2	5		10/18/21 13:41	67-64-1	
Benzene	1.7J	ug/L	5.0	1.5	5		10/18/21 13:41	71-43-2	
Bromobenzene	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		10/18/21 13:41	74-97-5	
Bromodichloromethane	<2.1	ug/L	5.0	2.1	5		10/18/21 13:41	75-27-4	
Bromoform	<19.0	ug/L	25.0	19.0	5		10/18/21 13:41	75-25-2	
Bromomethane	<6.0	ug/L	25.0	6.0	5		10/18/21 13:41	74-83-9	
Carbon tetrachloride	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	56-23-5	
Chlorobenzene	<4.3	ug/L	5.0	4.3	5		10/18/21 13:41	108-90-7	
Chloroethane	205	ug/L	25.0	6.9	5		10/18/21 13:41	75-00-3	
Chloroform	<5.9	ug/L	25.0	5.9	5		10/18/21 13:41	67-66-3	
Chloromethane	<8.2	ug/L	25.0	8.2	5		10/18/21 13:41	74-87-3	
Dibromochloromethane	<13.2	ug/L	25.0	13.2	5		10/18/21 13:41	124-48-1	
Dibromomethane	<5.0	ug/L	25.0	5.0	5		10/18/21 13:41	74-95-3	
Dichlorodifluoromethane	<2.3	ug/L	25.0	2.3	5		10/18/21 13:41	75-71-8	
Diisopropyl ether	<5.5	ug/L	25.0	5.5	5		10/18/21 13:41	108-20-3	
Ethylbenzene	<1.6	ug/L	5.0	1.6	5		10/18/21 13:41	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/L	25.0	13.7	5		10/18/21 13:41	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	25.0	5.0	5		10/18/21 13:41	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111A DUP' **Lab ID: 40234869007** Collected: 10/06/21 12:20 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<5.6	ug/L	25.0	5.6	5		10/18/21 13:41	1634-04-4	
Methylene Chloride	<1.6	ug/L	25.0	1.6	5		10/18/21 13:41	75-09-2	
Naphthalene	<5.6	ug/L	25.0	5.6	5		10/18/21 13:41	91-20-3	
Styrene	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	100-42-5	
Tetrachloroethene	<2.0	ug/L	5.0	2.0	5		10/18/21 13:41	127-18-4	
Toluene	10.0	ug/L	5.0	1.4	5		10/18/21 13:41	108-88-3	
Trichloroethene	<1.6	ug/L	5.0	1.6	5		10/18/21 13:41	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	5.0	2.1	5		10/18/21 13:41	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		10/18/21 13:41	75-01-4	
Xylene (Total)	<5.2	ug/L	15.0	5.2	5		10/18/21 13:41	1330-20-7	
cis-1,2-Dichloroethene	<2.4	ug/L	5.0	2.4	5		10/18/21 13:41	156-59-2	
cis-1,3-Dichloropropene	<1.8	ug/L	5.0	1.8	5		10/18/21 13:41	10061-01-5	
m&p-Xylene	<3.5	ug/L	10.0	3.5	5		10/18/21 13:41	179601-23-1	
n-Butylbenzene	<4.3	ug/L	5.0	4.3	5		10/18/21 13:41	104-51-8	
n-Propylbenzene	<1.7	ug/L	5.0	1.7	5		10/18/21 13:41	103-65-1	
o-Xylene	<1.7	ug/L	5.0	1.7	5		10/18/21 13:41	95-47-6	
p-Isopropyltoluene	<5.2	ug/L	25.0	5.2	5		10/18/21 13:41	99-87-6	
sec-Butylbenzene	<2.1	ug/L	5.0	2.1	5		10/18/21 13:41	135-98-8	
tert-Butylbenzene	<2.9	ug/L	5.0	2.9	5		10/18/21 13:41	98-06-6	
trans-1,2-Dichloroethene	6.2	ug/L	5.0	2.6	5		10/18/21 13:41	156-60-5	
trans-1,3-Dichloropropene	<17.3	ug/L	25.0	17.3	5		10/18/21 13:41	10061-02-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		5		10/18/21 13:41	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		5		10/18/21 13:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		5		10/18/21 13:41	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111B' **Lab ID: 40234869008** Collected: 10/06/21 12:30 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 08:45	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 08:45	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 08:45	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 08:45	79-00-5	
1,1-Dichloroethane	18.5	ug/L	1.0	0.30	1		10/18/21 08:45	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 08:45	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 08:45	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 08:45	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 08:45	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 08:45	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 08:45	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 08:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 08:45	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 08:45	95-50-1	
1,2-Dichloroethane	5.2	ug/L	1.0	0.29	1		10/18/21 08:45	107-06-2	
1,2-Dichloropropane	1.5	ug/L	1.0	0.45	1		10/18/21 08:45	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 08:45	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 08:45	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 08:45	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 08:45	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 08:45	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 08:45	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 08:45	95-49-8	
2-Propanol	26.8J	ug/L	100	9.9	1		10/18/21 08:45	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 08:45	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 08:45	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 08:45	67-64-1	
Benzene	0.67J	ug/L	1.0	0.30	1		10/18/21 08:45	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 08:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 08:45	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 08:45	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 08:45	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 08:45	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 08:45	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 08:45	108-90-7	
Chloroethane	90.6	ug/L	5.0	1.4	1		10/18/21 08:45	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 08:45	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 08:45	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 08:45	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 08:45	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 08:45	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 08:45	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 08:45	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 08:45	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 08:45	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-111B' **Lab ID: 40234869008** Collected: 10/06/21 12:30 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 08:45	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 08:45	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 08:45	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 08:45	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 08:45	127-18-4	
Toluene	4.4	ug/L	1.0	0.29	1		10/18/21 08:45	108-88-3	
Trichloroethene	0.94J	ug/L	1.0	0.32	1		10/18/21 08:45	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 08:45	75-69-4	
Vinyl chloride	3.3	ug/L	1.0	0.17	1		10/18/21 08:45	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 08:45	1330-20-7	
cis-1,2-Dichloroethene	2.1	ug/L	1.0	0.47	1		10/18/21 08:45	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 08:45	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 08:45	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 08:45	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 08:45	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 08:45	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 08:45	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 08:45	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 08:45	98-06-6	
trans-1,2-Dichloroethene	2.5	ug/L	1.0	0.53	1		10/18/21 08:45	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 08:45	10061-02-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		10/18/21 08:45	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		10/18/21 08:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/18/21 08:45	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-114' **Lab ID: 40234869009** Collected: 10/06/21 11:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 11:13	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:13	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 11:13	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 11:13	79-00-5	
1,1-Dichloroethane	0.69J	ug/L	1.0	0.30	1		10/18/21 11:13	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 11:13	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 11:13	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:13	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 11:13	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 11:13	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 11:13	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 11:13	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 11:13	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:13	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 11:13	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 11:13	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:13	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:13	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:13	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 11:13	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 11:13	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 11:13	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:13	95-49-8	
2-Propanol	14.6J	ug/L	100	9.9	1		10/18/21 11:13	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:13	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 11:13	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 11:13	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 11:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 11:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 11:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 11:13	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 11:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 11:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 11:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 11:13	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 11:13	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 11:13	74-95-3	
Dichlorodifluoromethane	2.2J	ug/L	5.0	0.46	1		10/18/21 11:13	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:13	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:13	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 11:13	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 11:13	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-114' **Lab ID: 40234869009** Collected: 10/06/21 11:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:13	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 11:13	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 11:13	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:13	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 11:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 11:13	108-88-3	
Trichloroethene	2.1	ug/L	1.0	0.32	1		10/18/21 11:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:13	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 11:13	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 11:13	1330-20-7	
cis-1,2-Dichloroethene	2.6	ug/L	1.0	0.47	1		10/18/21 11:13	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:13	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 11:13	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:13	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:13	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:13	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:13	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 11:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 11:13	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 11:13	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 11:13	10061-02-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		10/18/21 11:13	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		10/18/21 11:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/18/21 11:13	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-114A¹ **Lab ID: 40234869010** Collected: 10/06/21 11:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 11:32	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:32	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 11:32	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 11:32	79-00-5	
1,1-Dichloroethane	1.7	ug/L	1.0	0.30	1		10/18/21 11:32	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 11:32	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 11:32	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:32	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 11:32	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 11:32	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 11:32	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 11:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 11:32	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:32	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 11:32	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 11:32	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:32	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:32	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:32	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 11:32	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 11:32	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 11:32	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:32	95-49-8	
2-Propanol	15.4J	ug/L	100	9.9	1		10/18/21 11:32	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:32	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 11:32	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 11:32	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 11:32	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 11:32	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:32	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 11:32	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 11:32	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 11:32	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:32	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 11:32	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 11:32	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 11:32	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 11:32	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 11:32	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 11:32	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:32	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:32	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 11:32	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 11:32	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-114A¹ **Lab ID: 40234869010** Collected: 10/06/21 11:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:32	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 11:32	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 11:32	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:32	100-42-5	
Tetrachloroethene	7.9	ug/L	1.0	0.41	1		10/18/21 11:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 11:32	108-88-3	
Trichloroethene	5.1	ug/L	1.0	0.32	1		10/18/21 11:32	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 11:32	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 11:32	1330-20-7	
cis-1,2-Dichloroethene	1.0	ug/L	1.0	0.47	1		10/18/21 11:32	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:32	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 11:32	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:32	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:32	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:32	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:32	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 11:32	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 11:32	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 11:32	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 11:32	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 11:32	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		10/18/21 11:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/18/21 11:32	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: SVE-5' **Lab ID: 40234869011** Collected: 10/07/21 14:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.89	ug/L	2.5	0.89	2.5		10/18/21 14:39	630-20-6	
1,1,1-Trichloroethane	2.9	ug/L	2.5	0.76	2.5		10/18/21 14:39	71-55-6	
1,1,2,2-Tetrachloroethane	<0.94	ug/L	2.5	0.94	2.5		10/18/21 14:39	79-34-5	
1,1,2-Trichloroethane	<0.86	ug/L	12.5	0.86	2.5		10/18/21 14:39	79-00-5	
1,1-Dichloroethane	51.9	ug/L	2.5	0.74	2.5		10/18/21 14:39	75-34-3	
1,1-Dichloroethene	<1.5	ug/L	2.5	1.5	2.5		10/18/21 14:39	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	2.5	1.0	2.5		10/18/21 14:39	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	12.5	2.5	2.5		10/18/21 14:39	87-61-6	
1,2,3-Trichloropropane	<1.4	ug/L	12.5	1.4	2.5		10/18/21 14:39	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		10/18/21 14:39	120-82-1	
1,2,4-Trimethylbenzene	183	ug/L	2.5	1.1	2.5		10/18/21 14:39	95-63-6	
1,2-Dibromo-3-chloropropane	<5.9	ug/L	12.5	5.9	2.5		10/18/21 14:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.77	ug/L	2.5	0.77	2.5		10/18/21 14:39	106-93-4	
1,2-Dichlorobenzene	14.0	ug/L	2.5	0.81	2.5		10/18/21 14:39	95-50-1	
1,2-Dichloroethane	<0.73	ug/L	2.5	0.73	2.5		10/18/21 14:39	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	2.5	1.1	2.5		10/18/21 14:39	78-87-5	
1,3,5-Trimethylbenzene	48.9	ug/L	2.5	0.89	2.5		10/18/21 14:39	108-67-8	
1,3-Dichlorobenzene	<0.88	ug/L	2.5	0.88	2.5		10/18/21 14:39	541-73-1	
1,3-Dichloropropane	<0.76	ug/L	2.5	0.76	2.5		10/18/21 14:39	142-28-9	
1,4-Dichlorobenzene	<2.2	ug/L	2.5	2.2	2.5		10/18/21 14:39	106-46-7	
2,2-Dichloropropane	<10.4	ug/L	12.5	10.4	2.5		10/18/21 14:39	594-20-7	
2-Butanone (MEK)	<16.3	ug/L	62.5	16.3	2.5		10/18/21 14:39	78-93-3	
2-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		10/18/21 14:39	95-49-8	
2-Propanol	<24.6	ug/L	250	24.6	2.5		10/18/21 14:39	67-63-0	
4-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		10/18/21 14:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.9	ug/L	62.5	14.9	2.5		10/18/21 14:39	108-10-1	
Acetone	<21.6	ug/L	62.5	21.6	2.5		10/18/21 14:39	67-64-1	
Benzene	1.4J	ug/L	2.5	0.74	2.5		10/18/21 14:39	71-43-2	
Bromobenzene	<0.90	ug/L	2.5	0.90	2.5		10/18/21 14:39	108-86-1	
Bromochloromethane	<0.89	ug/L	12.5	0.89	2.5		10/18/21 14:39	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.5	1.0	2.5		10/18/21 14:39	75-27-4	
Bromoform	<9.5	ug/L	12.5	9.5	2.5		10/18/21 14:39	75-25-2	
Bromomethane	<3.0	ug/L	12.5	3.0	2.5		10/18/21 14:39	74-83-9	
Carbon tetrachloride	<0.92	ug/L	2.5	0.92	2.5		10/18/21 14:39	56-23-5	
Chlorobenzene	<2.1	ug/L	2.5	2.1	2.5		10/18/21 14:39	108-90-7	
Chloroethane	130	ug/L	12.5	3.4	2.5		10/18/21 14:39	75-00-3	
Chloroform	<3.0	ug/L	12.5	3.0	2.5		10/18/21 14:39	67-66-3	
Chloromethane	<4.1	ug/L	12.5	4.1	2.5		10/18/21 14:39	74-87-3	
Dibromochloromethane	<6.6	ug/L	12.5	6.6	2.5		10/18/21 14:39	124-48-1	
Dibromomethane	<2.5	ug/L	12.5	2.5	2.5		10/18/21 14:39	74-95-3	
Dichlorodifluoromethane	<1.1	ug/L	12.5	1.1	2.5		10/18/21 14:39	75-71-8	
Diisopropyl ether	<2.8	ug/L	12.5	2.8	2.5		10/18/21 14:39	108-20-3	
Ethylbenzene	1070	ug/L	40.0	13.0	40		10/18/21 17:38	100-41-4	
Hexachloro-1,3-butadiene	<6.8	ug/L	12.5	6.8	2.5		10/18/21 14:39	87-68-3	
Isopropylbenzene (Cumene)	23.4	ug/L	12.5	2.5	2.5		10/18/21 14:39	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: SVE-5¹ **Lab ID: 40234869011** Collected: 10/07/21 14:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		10/18/21 14:39	1634-04-4	
Methylene Chloride	5.1J	ug/L	12.5	0.80	2.5		10/18/21 14:39	75-09-2	
Naphthalene	22.8	ug/L	12.5	2.8	2.5		10/18/21 14:39	91-20-3	
Styrene	<0.89	ug/L	2.5	0.89	2.5		10/18/21 14:39	100-42-5	
Tetrachloroethene	<1.0	ug/L	2.5	1.0	2.5		10/18/21 14:39	127-18-4	
Toluene	532	ug/L	2.5	0.72	2.5		10/18/21 14:39	108-88-3	
Trichloroethene	1.0J	ug/L	2.5	0.80	2.5		10/18/21 14:39	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	2.5	1.0	2.5		10/18/21 14:39	75-69-4	
Vinyl chloride	4.3	ug/L	2.5	0.44	2.5		10/18/21 14:39	75-01-4	
Xylene (Total)	3760	ug/L	120	41.9	40		10/18/21 17:38	1330-20-7	
cis-1,2-Dichloroethene	29.2	ug/L	2.5	1.2	2.5		10/18/21 14:39	156-59-2	
cis-1,3-Dichloropropene	<0.90	ug/L	2.5	0.90	2.5		10/18/21 14:39	10061-01-5	
m&p-Xylene	3180	ug/L	80.0	28.0	40		10/18/21 17:38	179601-23-1	
n-Butylbenzene	<2.1	ug/L	2.5	2.1	2.5		10/18/21 14:39	104-51-8	
n-Propylbenzene	32.0	ug/L	2.5	0.86	2.5		10/18/21 14:39	103-65-1	
o-Xylene	574	ug/L	2.5	0.87	2.5		10/18/21 14:39	95-47-6	
p-Isopropyltoluene	<2.6	ug/L	12.5	2.6	2.5		10/18/21 14:39	99-87-6	
sec-Butylbenzene	2.1J	ug/L	2.5	1.1	2.5		10/18/21 14:39	135-98-8	
tert-Butylbenzene	<1.5	ug/L	2.5	1.5	2.5		10/18/21 14:39	98-06-6	
trans-1,2-Dichloroethene	<1.3	ug/L	2.5	1.3	2.5		10/18/21 14:39	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	12.5	8.7	2.5		10/18/21 14:39	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		2.5		10/18/21 14:39	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		2.5		10/18/21 14:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		2.5		10/18/21 14:39	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: SVE-7¹ Lab ID: 40234869012 Collected: 10/07/21 15:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<71.1	ug/L	200	71.1	200		10/18/21 12:46	630-20-6	
1,1,1-Trichloroethane	10000	ug/L	200	60.5	200		10/18/21 12:46	71-55-6	
1,1,2,2-Tetrachloroethane	<75.6	ug/L	200	75.6	200		10/18/21 12:46	79-34-5	
1,1,2-Trichloroethane	466J	ug/L	1000	68.9	200		10/18/21 12:46	79-00-5	
1,1-Dichloroethane	440	ug/L	200	59.1	200		10/18/21 12:46	75-34-3	
1,1-Dichloroethene	137J	ug/L	200	116	200		10/18/21 12:46	75-35-4	
1,1-Dichloropropene	<82.1	ug/L	200	82.1	200		10/18/21 12:46	563-58-6	
1,2,3-Trichlorobenzene	<204	ug/L	1000	204	200		10/18/21 12:46	87-61-6	
1,2,3-Trichloropropane	<111	ug/L	1000	111	200		10/18/21 12:46	96-18-4	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		10/18/21 12:46	120-82-1	
1,2,4-Trimethylbenzene	<89.7	ug/L	200	89.7	200		10/18/21 12:46	95-63-6	
1,2-Dibromo-3-chloropropane	<473	ug/L	1000	473	200		10/18/21 12:46	96-12-8	
1,2-Dibromoethane (EDB)	<61.8	ug/L	200	61.8	200		10/18/21 12:46	106-93-4	
1,2-Dichlorobenzene	170J	ug/L	200	65.2	200		10/18/21 12:46	95-50-1	
1,2-Dichloroethane	<58.3	ug/L	200	58.3	200		10/18/21 12:46	107-06-2	
1,2-Dichloropropane	120J	ug/L	200	89.6	200		10/18/21 12:46	78-87-5	
1,3,5-Trimethylbenzene	<71.5	ug/L	200	71.5	200		10/18/21 12:46	108-67-8	
1,3-Dichlorobenzene	<70.2	ug/L	200	70.2	200		10/18/21 12:46	541-73-1	
1,3-Dichloropropane	<61.0	ug/L	200	61.0	200		10/18/21 12:46	142-28-9	
1,4-Dichlorobenzene	<178	ug/L	200	178	200		10/18/21 12:46	106-46-7	
2,2-Dichloropropane	<836	ug/L	1000	836	200		10/18/21 12:46	594-20-7	
2-Butanone (MEK)	<1300	ug/L	5000	1300	200		10/18/21 12:46	78-93-3	
2-Chlorotoluene	<178	ug/L	1000	178	200		10/18/21 12:46	95-49-8	
2-Propanol	<1970	ug/L	20000	1970	200		10/18/21 12:46	67-63-0	
4-Chlorotoluene	<179	ug/L	1000	179	200		10/18/21 12:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<1190	ug/L	5000	1190	200		10/18/21 12:46	108-10-1	
Acetone	<1730	ug/L	5000	1730	200		10/18/21 12:46	67-64-1	
Benzene	<59.1	ug/L	200	59.1	200		10/18/21 12:46	71-43-2	
Bromobenzene	<72.2	ug/L	200	72.2	200		10/18/21 12:46	108-86-1	
Bromochloromethane	<71.6	ug/L	1000	71.6	200		10/18/21 12:46	74-97-5	
Bromodichloromethane	<83.1	ug/L	200	83.1	200		10/18/21 12:46	75-27-4	
Bromoform	<760	ug/L	1000	760	200		10/18/21 12:46	75-25-2	
Bromomethane	<238	ug/L	1000	238	200		10/18/21 12:46	74-83-9	
Carbon tetrachloride	<73.9	ug/L	200	73.9	200		10/18/21 12:46	56-23-5	
Chlorobenzene	<171	ug/L	200	171	200		10/18/21 12:46	108-90-7	
Chloroethane	<276	ug/L	1000	276	200		10/18/21 12:46	75-00-3	
Chloroform	<237	ug/L	1000	237	200		10/18/21 12:46	67-66-3	
Chloromethane	<327	ug/L	1000	327	200		10/18/21 12:46	74-87-3	
Dibromochloromethane	<529	ug/L	1000	529	200		10/18/21 12:46	124-48-1	
Dibromomethane	<198	ug/L	1000	198	200		10/18/21 12:46	74-95-3	
Dichlorodifluoromethane	<91.1	ug/L	1000	91.1	200		10/18/21 12:46	75-71-8	
Diisopropyl ether	<220	ug/L	1000	220	200		10/18/21 12:46	108-20-3	
Ethylbenzene	<65.0	ug/L	200	65.0	200		10/18/21 12:46	100-41-4	
Hexachloro-1,3-butadiene	<547	ug/L	1000	547	200		10/18/21 12:46	87-68-3	
Isopropylbenzene (Cumene)	<200	ug/L	1000	200	200		10/18/21 12:46	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: SVE-7 **Lab ID: 40234869012** Collected: 10/07/21 15:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<226	ug/L	1000	226	200		10/18/21 12:46	1634-04-4	
Methylene Chloride	<63.9	ug/L	1000	63.9	200		10/18/21 12:46	75-09-2	
Naphthalene	<226	ug/L	1000	226	200		10/18/21 12:46	91-20-3	
Styrene	<71.3	ug/L	200	71.3	200		10/18/21 12:46	100-42-5	
Tetrachloroethene	6520	ug/L	200	81.7	200		10/18/21 12:46	127-18-4	
Toluene	<57.6	ug/L	200	57.6	200		10/18/21 12:46	108-88-3	
Trichloroethene	14600	ug/L	200	63.9	200		10/18/21 12:46	79-01-6	
Trichlorofluoromethane	<83.7	ug/L	200	83.7	200		10/18/21 12:46	75-69-4	
Vinyl chloride	<34.9	ug/L	200	34.9	200		10/18/21 12:46	75-01-4	
Xylene (Total)	<210	ug/L	600	210	200		10/18/21 12:46	1330-20-7	
cis-1,2-Dichloroethene	811	ug/L	200	94.3	200		10/18/21 12:46	156-59-2	
cis-1,3-Dichloropropene	<71.6	ug/L	200	71.6	200		10/18/21 12:46	10061-01-5	
m&p-Xylene	<140	ug/L	400	140	200		10/18/21 12:46	179601-23-1	
n-Butylbenzene	<171	ug/L	200	171	200		10/18/21 12:46	104-51-8	
n-Propylbenzene	<69.1	ug/L	200	69.1	200		10/18/21 12:46	103-65-1	
o-Xylene	74.2J	ug/L	200	69.6	200		10/18/21 12:46	95-47-6	
p-Isopropyltoluene	<209	ug/L	1000	209	200		10/18/21 12:46	99-87-6	
sec-Butylbenzene	<84.8	ug/L	200	84.8	200		10/18/21 12:46	135-98-8	
tert-Butylbenzene	<117	ug/L	200	117	200		10/18/21 12:46	98-06-6	
trans-1,2-Dichloroethene	<106	ug/L	200	106	200		10/18/21 12:46	156-60-5	
trans-1,3-Dichloropropene	<692	ug/L	1000	692	200		10/18/21 12:46	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		200		10/18/21 12:46	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		200		10/18/21 12:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		200		10/18/21 12:46	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-27' **Lab ID: 40234869013** Collected: 10/07/21 10:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 09:03	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:03	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 09:03	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 09:03	79-00-5	
1,1-Dichloroethane	2.8	ug/L	1.0	0.30	1		10/18/21 09:03	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 09:03	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:03	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:03	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 09:03	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 09:03	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 09:03	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 09:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 09:03	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:03	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 09:03	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 09:03	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:03	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:03	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:03	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 09:03	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 09:03	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 09:03	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:03	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 09:03	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:03	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 09:03	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 09:03	67-64-1	
Benzene	0.51J	ug/L	1.0	0.30	1		10/18/21 09:03	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:03	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 09:03	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:03	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 09:03	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 09:03	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 09:03	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:03	108-90-7	
Chloroethane	1.5J	ug/L	5.0	1.4	1		10/18/21 09:03	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 09:03	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 09:03	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 09:03	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 09:03	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 09:03	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:03	108-20-3	
Ethylbenzene	5.6	ug/L	1.0	0.33	1		10/18/21 09:03	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 09:03	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 09:03	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-27' **Lab ID: 40234869013** Collected: 10/07/21 10:15 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:03	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 09:03	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 09:03	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:03	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:03	127-18-4	
Toluene	0.44J	ug/L	1.0	0.29	1		10/18/21 09:03	108-88-3	
Trichloroethene	1.1	ug/L	1.0	0.32	1		10/18/21 09:03	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:03	75-69-4	
Vinyl chloride	5.6	ug/L	1.0	0.17	1		10/18/21 09:03	75-01-4	
Xylene (Total)	2.1J	ug/L	3.0	1.0	1		10/18/21 09:03	1330-20-7	
cis-1,2-Dichloroethene	4.3	ug/L	1.0	0.47	1		10/18/21 09:03	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:03	10061-01-5	
m&p-Xylene	1.8J	ug/L	2.0	0.70	1		10/18/21 09:03	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:03	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:03	103-65-1	
o-Xylene	0.36J	ug/L	1.0	0.35	1		10/18/21 09:03	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:03	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 09:03	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 09:03	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 09:03	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 09:03	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 09:03	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		10/18/21 09:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/18/21 09:03	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-115B¹ **Lab ID: 40234869014** Collected: 10/07/21 08:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 09:59	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 09:59	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 09:59	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:59	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 09:59	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:59	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:59	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 09:59	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 09:59	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 09:59	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 09:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 09:59	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:59	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 09:59	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 09:59	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:59	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:59	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:59	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 09:59	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 09:59	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 09:59	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:59	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 09:59	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:59	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 09:59	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 09:59	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 09:59	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 09:59	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 09:59	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 09:59	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 09:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 09:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 09:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 09:59	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 09:59	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 09:59	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 09:59	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:59	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:59	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 09:59	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 09:59	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-115B¹ **Lab ID: 40234869014** Collected: 10/07/21 08:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:59	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 09:59	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 09:59	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:59	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 09:59	108-88-3	
Trichloroethene	0.63J	ug/L	1.0	0.32	1		10/18/21 09:59	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:59	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 09:59	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 09:59	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/18/21 09:59	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:59	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 09:59	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:59	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:59	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:59	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:59	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 09:59	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 09:59	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 09:59	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 09:59	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 09:59	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		10/18/21 09:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/18/21 09:59	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR
Pace Project No.: 40234869

Sample: MW-115A **Lab ID: 40234869015** Collected: 10/07/21 14:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<14.2	ug/L	40.0	14.2	40		10/18/21 13:23	630-20-6	
1,1,1-Trichloroethane	<12.1	ug/L	40.0	12.1	40		10/18/21 13:23	71-55-6	
1,1,2,2-Tetrachloroethane	<15.1	ug/L	40.0	15.1	40		10/18/21 13:23	79-34-5	
1,1,2-Trichloroethane	28.6J	ug/L	200	13.8	40		10/18/21 13:23	79-00-5	
1,1-Dichloroethane	403	ug/L	40.0	11.8	40		10/18/21 13:23	75-34-3	
1,1-Dichloroethene	47.8	ug/L	40.0	23.3	40		10/18/21 13:23	75-35-4	
1,1-Dichloropropene	<16.4	ug/L	40.0	16.4	40		10/18/21 13:23	563-58-6	
1,2,3-Trichlorobenzene	<40.7	ug/L	200	40.7	40		10/18/21 13:23	87-61-6	
1,2,3-Trichloropropane	<22.2	ug/L	200	22.2	40		10/18/21 13:23	96-18-4	
1,2,4-Trichlorobenzene	<38.0	ug/L	200	38.0	40		10/18/21 13:23	120-82-1	
1,2,4-Trimethylbenzene	<17.9	ug/L	40.0	17.9	40		10/18/21 13:23	95-63-6	
1,2-Dibromo-3-chloropropane	<94.7	ug/L	200	94.7	40		10/18/21 13:23	96-12-8	
1,2-Dibromoethane (EDB)	<12.4	ug/L	40.0	12.4	40		10/18/21 13:23	106-93-4	
1,2-Dichlorobenzene	<13.0	ug/L	40.0	13.0	40		10/18/21 13:23	95-50-1	
1,2-Dichloroethane	<11.7	ug/L	40.0	11.7	40		10/18/21 13:23	107-06-2	
1,2-Dichloropropane	18.6J	ug/L	40.0	17.9	40		10/18/21 13:23	78-87-5	
1,3,5-Trimethylbenzene	<14.3	ug/L	40.0	14.3	40		10/18/21 13:23	108-67-8	
1,3-Dichlorobenzene	<14.0	ug/L	40.0	14.0	40		10/18/21 13:23	541-73-1	
1,3-Dichloropropane	<12.2	ug/L	40.0	12.2	40		10/18/21 13:23	142-28-9	
1,4-Dichlorobenzene	<35.7	ug/L	40.0	35.7	40		10/18/21 13:23	106-46-7	
2,2-Dichloropropane	<167	ug/L	200	167	40		10/18/21 13:23	594-20-7	
2-Butanone (MEK)	<261	ug/L	1000	261	40		10/18/21 13:23	78-93-3	
2-Chlorotoluene	<35.6	ug/L	200	35.6	40		10/18/21 13:23	95-49-8	
2-Propanol	<394	ug/L	4000	394	40		10/18/21 13:23	67-63-0	
4-Chlorotoluene	<35.8	ug/L	200	35.8	40		10/18/21 13:23	106-43-4	
4-Methyl-2-pentanone (MIBK)	<238	ug/L	1000	238	40		10/18/21 13:23	108-10-1	
Acetone	<346	ug/L	1000	346	40		10/18/21 13:23	67-64-1	
Benzene	<11.8	ug/L	40.0	11.8	40		10/18/21 13:23	71-43-2	
Bromobenzene	<14.4	ug/L	40.0	14.4	40		10/18/21 13:23	108-86-1	
Bromochloromethane	<14.3	ug/L	200	14.3	40		10/18/21 13:23	74-97-5	
Bromodichloromethane	<16.6	ug/L	40.0	16.6	40		10/18/21 13:23	75-27-4	
Bromoform	<152	ug/L	200	152	40		10/18/21 13:23	75-25-2	
Bromomethane	<47.7	ug/L	200	47.7	40		10/18/21 13:23	74-83-9	
Carbon tetrachloride	<14.8	ug/L	40.0	14.8	40		10/18/21 13:23	56-23-5	
Chlorobenzene	<34.2	ug/L	40.0	34.2	40		10/18/21 13:23	108-90-7	
Chloroethane	<55.2	ug/L	200	55.2	40		10/18/21 13:23	75-00-3	
Chloroform	<47.3	ug/L	200	47.3	40		10/18/21 13:23	67-66-3	
Chloromethane	<65.4	ug/L	200	65.4	40		10/18/21 13:23	74-87-3	
Dibromochloromethane	<106	ug/L	200	106	40		10/18/21 13:23	124-48-1	
Dibromomethane	<39.6	ug/L	200	39.6	40		10/18/21 13:23	74-95-3	
Dichlorodifluoromethane	<18.2	ug/L	200	18.2	40		10/18/21 13:23	75-71-8	
Diisopropyl ether	<44.0	ug/L	200	44.0	40		10/18/21 13:23	108-20-3	
Ethylbenzene	<13.0	ug/L	40.0	13.0	40		10/18/21 13:23	100-41-4	
Hexachloro-1,3-butadiene	<109	ug/L	200	109	40		10/18/21 13:23	87-68-3	
Isopropylbenzene (Cumene)	<40.0	ug/L	200	40.0	40		10/18/21 13:23	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-115A **Lab ID: 40234869015** Collected: 10/07/21 14:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<45.2	ug/L	200	45.2	40		10/18/21 13:23	1634-04-4	
Methylene Chloride	<12.8	ug/L	200	12.8	40		10/18/21 13:23	75-09-2	
Naphthalene	<45.2	ug/L	200	45.2	40		10/18/21 13:23	91-20-3	
Styrene	<14.3	ug/L	40.0	14.3	40		10/18/21 13:23	100-42-5	
Tetrachloroethene	<16.3	ug/L	40.0	16.3	40		10/18/21 13:23	127-18-4	
Toluene	<11.5	ug/L	40.0	11.5	40		10/18/21 13:23	108-88-3	
Trichloroethene	71.1	ug/L	40.0	12.8	40		10/18/21 13:23	79-01-6	
Trichlorofluoromethane	<16.7	ug/L	40.0	16.7	40		10/18/21 13:23	75-69-4	
Vinyl chloride	8.4J	ug/L	40.0	7.0	40		10/18/21 13:23	75-01-4	
Xylene (Total)	<41.9	ug/L	120	41.9	40		10/18/21 13:23	1330-20-7	
cis-1,2-Dichloroethene	1820	ug/L	40.0	18.9	40		10/18/21 13:23	156-59-2	
cis-1,3-Dichloropropene	<14.3	ug/L	40.0	14.3	40		10/18/21 13:23	10061-01-5	
m&p-Xylene	<28.0	ug/L	80.0	28.0	40		10/18/21 13:23	179601-23-1	
n-Butylbenzene	<34.3	ug/L	40.0	34.3	40		10/18/21 13:23	104-51-8	
n-Propylbenzene	<13.8	ug/L	40.0	13.8	40		10/18/21 13:23	103-65-1	
o-Xylene	<13.9	ug/L	40.0	13.9	40		10/18/21 13:23	95-47-6	
p-Isopropyltoluene	<41.8	ug/L	200	41.8	40		10/18/21 13:23	99-87-6	
sec-Butylbenzene	<17.0	ug/L	40.0	17.0	40		10/18/21 13:23	135-98-8	
tert-Butylbenzene	<23.4	ug/L	40.0	23.4	40		10/18/21 13:23	98-06-6	
trans-1,2-Dichloroethene	190	ug/L	40.0	21.1	40		10/18/21 13:23	156-60-5	
trans-1,3-Dichloropropene	<138	ug/L	200	138	40		10/18/21 13:23	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		40		10/18/21 13:23	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		40		10/18/21 13:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		40		10/18/21 13:23	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-17B **Lab ID: 40234869016** Collected: 10/07/21 10:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 11:50	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:50	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 11:50	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 11:50	79-00-5	
1,1-Dichloroethane	0.34J	ug/L	1.0	0.30	1		10/18/21 11:50	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 11:50	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 11:50	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:50	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 11:50	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 11:50	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 11:50	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 11:50	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 11:50	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:50	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 11:50	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 11:50	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:50	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:50	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 11:50	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 11:50	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 11:50	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 11:50	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:50	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 11:50	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 11:50	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 11:50	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 11:50	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 11:50	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:50	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 11:50	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:50	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 11:50	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 11:50	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 11:50	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:50	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 11:50	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 11:50	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 11:50	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 11:50	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 11:50	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 11:50	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:50	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 11:50	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 11:50	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 11:50	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-17B **Lab ID: 40234869016** Collected: 10/07/21 10:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 11:50	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 11:50	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 11:50	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:50	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 11:50	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 11:50	108-88-3	
Trichloroethene	0.97J	ug/L	1.0	0.32	1		10/18/21 11:50	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 11:50	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 11:50	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 11:50	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/18/21 11:50	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 11:50	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 11:50	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 11:50	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:50	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 11:50	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 11:50	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 11:50	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 11:50	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 11:50	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 11:50	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 11:50	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		10/18/21 11:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/18/21 11:50	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-30B **Lab ID: 40234869017** Collected: 10/07/21 12:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 10:18	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 10:18	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 10:18	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:18	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 10:18	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 10:18	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:18	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 10:18	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 10:18	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 10:18	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 10:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 10:18	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:18	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 10:18	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 10:18	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:18	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:18	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:18	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 10:18	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 10:18	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 10:18	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:18	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 10:18	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:18	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 10:18	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 10:18	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 10:18	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 10:18	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 10:18	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 10:18	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 10:18	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 10:18	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 10:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 10:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 10:18	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 10:18	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 10:18	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 10:18	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 10:18	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:18	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 10:18	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 10:18	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-30B **Lab ID: 40234869017** Collected: 10/07/21 12:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 10:18	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 10:18	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 10:18	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:18	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 10:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 10:18	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/18/21 10:18	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 10:18	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 10:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 10:18	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/18/21 10:18	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:18	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 10:18	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:18	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:18	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:18	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:18	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 10:18	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 10:18	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 10:18	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 10:18	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 10:18	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		10/18/21 10:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/18/21 10:18	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-26 **Lab ID: 40234869018** Collected: 10/07/21 13:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 09:22	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:22	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 09:22	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 09:22	79-00-5	
1,1-Dichloroethane	0.72J	ug/L	1.0	0.30	1		10/18/21 09:22	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 09:22	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:22	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:22	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 09:22	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 09:22	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 09:22	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 09:22	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 09:22	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:22	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 09:22	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 09:22	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:22	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:22	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 09:22	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 09:22	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 09:22	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 09:22	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:22	95-49-8	
2-Propanol	11.1J	ug/L	100	9.9	1		10/18/21 09:22	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 09:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 09:22	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 09:22	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 09:22	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:22	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 09:22	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:22	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 09:22	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 09:22	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 09:22	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:22	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 09:22	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 09:22	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 09:22	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 09:22	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 09:22	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 09:22	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:22	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 09:22	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 09:22	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 09:22	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-26 **Lab ID: 40234869018** Collected: 10/07/21 13:40 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 09:22	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 09:22	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 09:22	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:22	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 09:22	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 09:22	108-88-3	
Trichloroethene	32.2	ug/L	1.0	0.32	1		10/18/21 09:22	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 09:22	75-69-4	
Vinyl chloride	2.3	ug/L	1.0	0.17	1		10/18/21 09:22	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 09:22	1330-20-7	
cis-1,2-Dichloroethene	14.4	ug/L	1.0	0.47	1		10/18/21 09:22	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 09:22	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 09:22	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 09:22	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:22	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 09:22	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 09:22	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 09:22	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 09:22	98-06-6	
trans-1,2-Dichloroethene	7.3	ug/L	1.0	0.53	1		10/18/21 09:22	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 09:22	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		10/18/21 09:22	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		10/18/21 09:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/18/21 09:22	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-30A **Lab ID: 40234869019** Collected: 10/07/21 12:50 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/18/21 10:36	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/18/21 10:36	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/18/21 10:36	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:36	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/18/21 10:36	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/18/21 10:36	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:36	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/18/21 10:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/18/21 10:36	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/18/21 10:36	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/18/21 10:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/18/21 10:36	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:36	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/18/21 10:36	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/18/21 10:36	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:36	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:36	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/18/21 10:36	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/18/21 10:36	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/18/21 10:36	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/18/21 10:36	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:36	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/18/21 10:36	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/18/21 10:36	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/18/21 10:36	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/18/21 10:36	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/18/21 10:36	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/18/21 10:36	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 10:36	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/18/21 10:36	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/18/21 10:36	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/18/21 10:36	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:36	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/18/21 10:36	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/18/21 10:36	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/18/21 10:36	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/18/21 10:36	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/18/21 10:36	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/18/21 10:36	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 10:36	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/18/21 10:36	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/18/21 10:36	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/18/21 10:36	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: W-30A **Lab ID: 40234869019** Collected: 10/07/21 12:50 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/18/21 10:36	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/18/21 10:36	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/18/21 10:36	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:36	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/18/21 10:36	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/18/21 10:36	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/18/21 10:36	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/18/21 10:36	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/18/21 10:36	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/18/21 10:36	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/18/21 10:36	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/18/21 10:36	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/18/21 10:36	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/18/21 10:36	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:36	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/18/21 10:36	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/18/21 10:36	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/18/21 10:36	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/18/21 10:36	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/18/21 10:36	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/18/21 10:36	10061-02-6	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1		10/18/21 10:36	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		10/18/21 10:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/18/21 10:36	2199-69-1	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-115 **Lab ID: 40234869020** Collected: 10/07/21 13:55 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	4.0	1.2	4		10/18/21 14:20	71-55-6	
1,1,2,2-Tetrachloroethane	<1.5	ug/L	4.0	1.5	4		10/18/21 14:20	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	20.0	1.4	4		10/18/21 14:20	79-00-5	
1,1-Dichloroethane	43.9	ug/L	4.0	1.2	4		10/18/21 14:20	75-34-3	
1,1-Dichloroethene	<2.3	ug/L	4.0	2.3	4		10/18/21 14:20	75-35-4	
1,1-Dichloropropene	<1.6	ug/L	4.0	1.6	4		10/18/21 14:20	563-58-6	
1,2,3-Trichlorobenzene	<4.1	ug/L	20.0	4.1	4		10/18/21 14:20	87-61-6	
1,2,3-Trichloropropane	<2.2	ug/L	20.0	2.2	4		10/18/21 14:20	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		10/18/21 14:20	120-82-1	
1,2,4-Trimethylbenzene	<1.8	ug/L	4.0	1.8	4		10/18/21 14:20	95-63-6	
1,2-Dibromo-3-chloropropane	<9.5	ug/L	20.0	9.5	4		10/18/21 14:20	96-12-8	
1,2-Dibromoethane (EDB)	<1.2	ug/L	4.0	1.2	4		10/18/21 14:20	106-93-4	
1,2-Dichlorobenzene	<1.3	ug/L	4.0	1.3	4		10/18/21 14:20	95-50-1	
1,2-Dichloroethane	36.5	ug/L	4.0	1.2	4		10/18/21 14:20	107-06-2	
1,2-Dichloropropane	<1.8	ug/L	4.0	1.8	4		10/18/21 14:20	78-87-5	
1,3,5-Trimethylbenzene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	108-67-8	
1,3-Dichlorobenzene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	541-73-1	
1,3-Dichloropropane	<1.2	ug/L	4.0	1.2	4		10/18/21 14:20	142-28-9	
1,4-Dichlorobenzene	<3.6	ug/L	4.0	3.6	4		10/18/21 14:20	106-46-7	
2,2-Dichloropropane	<16.7	ug/L	20.0	16.7	4		10/18/21 14:20	594-20-7	
2-Butanone (MEK)	<26.1	ug/L	100	26.1	4		10/18/21 14:20	78-93-3	
2-Chlorotoluene	<3.6	ug/L	20.0	3.6	4		10/18/21 14:20	95-49-8	
2-Propanol	<39.4	ug/L	400	39.4	4		10/18/21 14:20	67-63-0	
4-Chlorotoluene	<3.6	ug/L	20.0	3.6	4		10/18/21 14:20	106-43-4	
4-Methyl-2-pentanone (MIBK)	<23.8	ug/L	100	23.8	4		10/18/21 14:20	108-10-1	
Acetone	<34.6	ug/L	100	34.6	4		10/18/21 14:20	67-64-1	
Benzene	10.9	ug/L	4.0	1.2	4		10/18/21 14:20	71-43-2	
Bromobenzene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		10/18/21 14:20	74-97-5	
Bromodichloromethane	<1.7	ug/L	4.0	1.7	4		10/18/21 14:20	75-27-4	
Bromoform	<15.2	ug/L	20.0	15.2	4		10/18/21 14:20	75-25-2	
Bromomethane	<4.8	ug/L	20.0	4.8	4		10/18/21 14:20	74-83-9	
Carbon tetrachloride	<1.5	ug/L	4.0	1.5	4		10/18/21 14:20	56-23-5	
Chlorobenzene	<3.4	ug/L	4.0	3.4	4		10/18/21 14:20	108-90-7	
Chloroethane	1230	ug/L	100	27.6	20		10/18/21 17:57	75-00-3	
Chloroform	<4.7	ug/L	20.0	4.7	4		10/18/21 14:20	67-66-3	
Chloromethane	<6.5	ug/L	20.0	6.5	4		10/18/21 14:20	74-87-3	
Dibromochloromethane	<10.6	ug/L	20.0	10.6	4		10/18/21 14:20	124-48-1	
Dibromomethane	<4.0	ug/L	20.0	4.0	4		10/18/21 14:20	74-95-3	
Dichlorodifluoromethane	<1.8	ug/L	20.0	1.8	4		10/18/21 14:20	75-71-8	
Diisopropyl ether	<4.4	ug/L	20.0	4.4	4		10/18/21 14:20	108-20-3	
Ethylbenzene	<1.3	ug/L	4.0	1.3	4		10/18/21 14:20	100-41-4	
Hexachloro-1,3-butadiene	<10.9	ug/L	20.0	10.9	4		10/18/21 14:20	87-68-3	
Isopropylbenzene (Cumene)	<4.0	ug/L	20.0	4.0	4		10/18/21 14:20	98-82-8	

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: MW-115 **Lab ID: 40234869020** Collected: 10/07/21 13:55 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<4.5	ug/L	20.0	4.5	4		10/18/21 14:20	1634-04-4	
Methylene Chloride	<1.3	ug/L	20.0	1.3	4		10/18/21 14:20	75-09-2	
Naphthalene	<4.5	ug/L	20.0	4.5	4		10/18/21 14:20	91-20-3	
Styrene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	100-42-5	
Tetrachloroethene	<1.6	ug/L	4.0	1.6	4		10/18/21 14:20	127-18-4	
Toluene	150	ug/L	4.0	1.2	4		10/18/21 14:20	108-88-3	
Trichloroethene	<1.3	ug/L	4.0	1.3	4		10/18/21 14:20	79-01-6	
Trichlorofluoromethane	<1.7	ug/L	4.0	1.7	4		10/18/21 14:20	75-69-4	
Vinyl chloride	8.1	ug/L	4.0	0.70	4		10/18/21 14:20	75-01-4	
Xylene (Total)	<4.2	ug/L	12.0	4.2	4		10/18/21 14:20	1330-20-7	
cis-1,2-Dichloroethene	13.1	ug/L	4.0	1.9	4		10/18/21 14:20	156-59-2	
cis-1,3-Dichloropropene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	10061-01-5	
m&p-Xylene	<2.8	ug/L	8.0	2.8	4		10/18/21 14:20	179601-23-1	
n-Butylbenzene	<3.4	ug/L	4.0	3.4	4		10/18/21 14:20	104-51-8	
n-Propylbenzene	<1.4	ug/L	4.0	1.4	4		10/18/21 14:20	103-65-1	
o-Xylene	2.2J	ug/L	4.0	1.4	4		10/18/21 14:20	95-47-6	
p-Isopropyltoluene	<4.2	ug/L	20.0	4.2	4		10/18/21 14:20	99-87-6	
sec-Butylbenzene	<1.7	ug/L	4.0	1.7	4		10/18/21 14:20	135-98-8	
tert-Butylbenzene	<2.3	ug/L	4.0	2.3	4		10/18/21 14:20	98-06-6	
trans-1,2-Dichloroethene	25.2	ug/L	4.0	2.1	4		10/18/21 14:20	156-60-5	
trans-1,3-Dichloropropene	<13.8	ug/L	20.0	13.8	4		10/18/21 14:20	10061-02-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		4		10/18/21 14:20	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		4		10/18/21 14:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		4		10/18/21 14:20	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: TRIP BLANK **Lab ID: 40234869022** Collected: 10/07/21 00:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/14/21 17:46	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 17:46	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/14/21 17:46	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		10/14/21 17:46	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/14/21 17:46	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/14/21 17:46	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/14/21 17:46	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/14/21 17:46	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		10/14/21 17:46	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/14/21 17:46	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/14/21 17:46	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/14/21 17:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/14/21 17:46	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 17:46	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/14/21 17:46	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/14/21 17:46	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 17:46	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 17:46	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/14/21 17:46	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/14/21 17:46	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		10/14/21 17:46	594-20-7	
2-Butanone (MEK)	<6.5	ug/L	25.0	6.5	1		10/14/21 17:46	78-93-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 17:46	95-49-8	
2-Propanol	<9.9	ug/L	100	9.9	1		10/14/21 17:46	67-63-0	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/14/21 17:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<6.0	ug/L	25.0	6.0	1		10/14/21 17:46	108-10-1	
Acetone	<8.6	ug/L	25.0	8.6	1		10/14/21 17:46	67-64-1	
Benzene	<0.30	ug/L	1.0	0.30	1		10/14/21 17:46	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/14/21 17:46	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/14/21 17:46	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 17:46	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		10/14/21 17:46	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/14/21 17:46	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/14/21 17:46	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 17:46	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/14/21 17:46	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		10/14/21 17:46	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/14/21 17:46	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/14/21 17:46	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/14/21 17:46	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/14/21 17:46	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 17:46	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/14/21 17:46	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/14/21 17:46	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/14/21 17:46	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 55929.005 WRR

Pace Project No.: 40234869

Sample: TRIP BLANK **Lab ID: 40234869022** Collected: 10/07/21 00:00 Received: 10/11/21 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/14/21 17:46	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/14/21 17:46	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		10/14/21 17:46	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		10/14/21 17:46	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/14/21 17:46	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		10/14/21 17:46	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/14/21 17:46	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/14/21 17:46	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/14/21 17:46	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		10/14/21 17:46	1330-20-7	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/14/21 17:46	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		10/14/21 17:46	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/14/21 17:46	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/14/21 17:46	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/14/21 17:46	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/14/21 17:46	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/14/21 17:46	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/14/21 17:46	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/14/21 17:46	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/14/21 17:46	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		10/14/21 17:46	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		10/14/21 17:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		10/14/21 17:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/14/21 17:46	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234869

METHOD BLANK: 2298687

Matrix: Water

Associated Lab Samples: 40234869001, 40234869002, 40234869003, 40234869004, 40234869005, 40234869006, 40234869007, 40234869008, 40234869009, 40234869010, 40234869011, 40234869012, 40234869013, 40234869014, 40234869015, 40234869016, 40234869017, 40234869018, 40234869019, 40234869020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	<1.6	5.0	10/18/21 07:12	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/18/21 07:12	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	10/18/21 07:12	
Dibromochloromethane	ug/L	<2.6	5.0	10/18/21 07:12	
Dibromomethane	ug/L	<0.99	5.0	10/18/21 07:12	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/18/21 07:12	
Diisopropyl ether	ug/L	<1.1	5.0	10/18/21 07:12	
Ethylbenzene	ug/L	<0.33	1.0	10/18/21 07:12	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	10/18/21 07:12	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	10/18/21 07:12	
m&p-Xylene	ug/L	<0.70	2.0	10/18/21 07:12	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/18/21 07:12	
Methylene Chloride	ug/L	<0.32	5.0	10/18/21 07:12	
n-Butylbenzene	ug/L	<0.86	1.0	10/18/21 07:12	
n-Propylbenzene	ug/L	<0.35	1.0	10/18/21 07:12	
Naphthalene	ug/L	<1.1	5.0	10/18/21 07:12	
o-Xylene	ug/L	<0.35	1.0	10/18/21 07:12	
p-Isopropyltoluene	ug/L	<1.0	5.0	10/18/21 07:12	
sec-Butylbenzene	ug/L	<0.42	1.0	10/18/21 07:12	
Styrene	ug/L	<0.36	1.0	10/18/21 07:12	
tert-Butylbenzene	ug/L	<0.59	1.0	10/18/21 07:12	
Tetrachloroethene	ug/L	<0.41	1.0	10/18/21 07:12	
Toluene	ug/L	<0.29	1.0	10/18/21 07:12	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/18/21 07:12	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	10/18/21 07:12	
Trichloroethene	ug/L	<0.32	1.0	10/18/21 07:12	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/18/21 07:12	
Vinyl chloride	ug/L	<0.17	1.0	10/18/21 07:12	
Xylene (Total)	ug/L	<1.0	3.0	10/18/21 07:12	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	10/18/21 07:12	
4-Bromofluorobenzene (S)	%	110	70-130	10/18/21 07:12	
Toluene-d8 (S)	%	106	70-130	10/18/21 07:12	

LABORATORY CONTROL SAMPLE: 2298688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.8	106	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	57.4	115	66-130	
1,1,2-Trichloroethane	ug/L	50	57.0	114	70-130	
1,1-Dichloroethane	ug/L	50	53.6	107	68-132	
1,1-Dichloroethene	ug/L	50	52.7	105	85-126	
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234869

LABORATORY CONTROL SAMPLE: 2298688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,2-Dichloroethane	ug/L	50	53.1	106	70-130	
1,2-Dichloropropane	ug/L	50	52.2	104	78-125	
1,3-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
Benzene	ug/L	50	54.1	108	70-132	
Bromodichloromethane	ug/L	50	52.1	104	70-130	
Bromoform	ug/L	50	50.6	101	65-130	
Bromomethane	ug/L	50	45.2	90	44-128	
Carbon tetrachloride	ug/L	50	51.4	103	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	54.7	109	73-137	
Chloroform	ug/L	50	56.2	112	80-122	
Chloromethane	ug/L	50	36.0	72	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	48.2	96	70-130	
Dichlorodifluoromethane	ug/L	50	29.4	59	22-151	
Ethylbenzene	ug/L	50	55.7	111	80-123	
Isopropylbenzene (Cumene)	ug/L	50	55.8	112	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	52.7	105	66-130	
Methylene Chloride	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	57.5	115	70-130	
Tetrachloroethene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	55.1	110	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.1	112	58-125	
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	48.5	97	84-148	
Vinyl chloride	ug/L	50	49.5	99	63-142	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2302615 2302616

Parameter	Units	40234869008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.30	50	50	52.4	53.3	105	107	70-130	2	20	
1,1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	57.7	56.1	115	112	66-130	3	20	

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40234869

Parameter	Units	2302615		2302616		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40234869008 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
1,1,2-Trichloroethane	ug/L	<0.34	50	50	56.6	56.8	113	114	70-130	0	20		
1,1-Dichloroethane	ug/L	18.5	50	50	73.1	73.7	109	110	68-132	1	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	53.9	53.5	108	107	76-132	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.4	43.2	84	86	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	58.7	55.8	117	112	51-126	5	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	51.3	50.4	103	101	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.4	48.0	95	96	70-130	1	20		
1,2-Dichloroethane	ug/L	5.2	50	50	56.5	57.7	103	105	70-130	2	20		
1,2-Dichloropropane	ug/L	1.5	50	50	53.4	53.7	104	104	77-125	0	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	46.1	46.9	92	94	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	47.8	47.5	96	95	70-130	1	20		
Benzene	ug/L	0.67J	50	50	54.8	55.4	108	109	70-132	1	20		
Bromodichloromethane	ug/L	<0.42	50	50	52.5	51.7	105	103	70-130	2	20		
Bromoform	ug/L	<3.8	50	50	52.2	51.5	104	103	65-130	1	20		
Bromomethane	ug/L	<1.2	50	50	49.2	49.5	98	99	44-128	1	21		
Carbon tetrachloride	ug/L	<0.37	50	50	52.0	52.3	104	105	70-132	1	20		
Chlorobenzene	ug/L	<0.86	50	50	50.1	51.0	100	102	70-130	2	20		
Chloroethane	ug/L	90.6	50	50	138	142	96	103	70-137	2	20		
Chloroform	ug/L	<1.2	50	50	57.2	56.9	114	114	80-122	1	20		
Chloromethane	ug/L	<1.6	50	50	39.0	38.9	78	78	17-149	0	20		
cis-1,2-Dichloroethene	ug/L	2.1	50	50	51.9	51.1	100	98	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	51.5	51.4	103	103	70-130	0	20		
Dibromochloromethane	ug/L	<2.6	50	50	48.5	48.9	97	98	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	35.3	35.8	71	72	22-158	1	20		
Ethylbenzene	ug/L	<0.33	50	50	55.3	56.0	111	112	80-123	1	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	55.9	55.9	112	112	70-130	0	20		
m&p-Xylene	ug/L	<0.70	100	100	109	109	109	109	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	53.8	52.7	108	105	66-130	2	20		
Methylene Chloride	ug/L	<0.32	50	50	52.9	52.7	106	105	70-130	0	20		
o-Xylene	ug/L	<0.35	50	50	54.2	55.2	108	110	70-130	2	20		
Styrene	ug/L	<0.36	50	50	57.6	57.8	115	116	70-130	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	46.9	47.8	94	96	70-130	2	20		
Toluene	ug/L	4.4	50	50	59.9	60.1	111	112	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	2.5	50	50	54.0	53.7	103	102	70-134	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	55.3	54.4	111	109	58-130	2	20		
Trichloroethene	ug/L	0.94J	50	50	51.6	51.7	101	102	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	51.4	51.6	103	103	82-151	0	20		
Vinyl chloride	ug/L	3.3	50	50	56.0	56.4	105	106	61-143	1	20		
Xylene (Total)	ug/L	<1.0	150	150	164	164	109	110	70-130	0	20		
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130				
4-Bromofluorobenzene (S)	%						114	113	70-130				
Toluene-d8 (S)	%						108	108	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 55929.005 WRR
Pace Project No.: 40234869

QC Batch: 398427	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV Oxygenates
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40234869022

METHOD BLANK: 2299963 Matrix: Water

Associated Lab Samples: 40234869022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	10/14/21 08:22	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	10/14/21 08:22	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	10/14/21 08:22	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	10/14/21 08:22	
1,1-Dichloroethane	ug/L	<0.30	1.0	10/14/21 08:22	
1,1-Dichloroethene	ug/L	<0.58	1.0	10/14/21 08:22	
1,1-Dichloropropene	ug/L	<0.41	1.0	10/14/21 08:22	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	10/14/21 08:22	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	10/14/21 08:22	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/14/21 08:22	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	10/14/21 08:22	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	10/14/21 08:22	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	10/14/21 08:22	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	10/14/21 08:22	
1,2-Dichloroethane	ug/L	<0.29	1.0	10/14/21 08:22	
1,2-Dichloropropane	ug/L	<0.45	1.0	10/14/21 08:22	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	10/14/21 08:22	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	10/14/21 08:22	
1,3-Dichloropropane	ug/L	<0.30	1.0	10/14/21 08:22	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	10/14/21 08:22	
2,2-Dichloropropane	ug/L	<4.2	5.0	10/14/21 08:22	
2-Butanone (MEK)	ug/L	<6.5	25.0	10/14/21 08:22	
2-Chlorotoluene	ug/L	<0.89	5.0	10/14/21 08:22	
2-Propanol	ug/L	<9.9	100	10/14/21 08:22	
4-Chlorotoluene	ug/L	<0.89	5.0	10/14/21 08:22	
4-Methyl-2-pentanone (MIBK)	ug/L	<6.0	25.0	10/14/21 08:22	
Acetone	ug/L	<8.6	25.0	10/14/21 08:22	
Benzene	ug/L	<0.30	1.0	10/14/21 08:22	
Bromobenzene	ug/L	<0.36	1.0	10/14/21 08:22	
Bromochloromethane	ug/L	<0.36	5.0	10/14/21 08:22	
Bromodichloromethane	ug/L	<0.42	1.0	10/14/21 08:22	
Bromoform	ug/L	<3.8	5.0	10/14/21 08:22	
Bromomethane	ug/L	<1.2	5.0	10/14/21 08:22	
Carbon tetrachloride	ug/L	<0.37	1.0	10/14/21 08:22	
Chlorobenzene	ug/L	<0.86	1.0	10/14/21 08:22	
Chloroethane	ug/L	<1.4	5.0	10/14/21 08:22	
Chloroform	ug/L	<1.2	5.0	10/14/21 08:22	
Chloromethane	ug/L	<1.6	5.0	10/14/21 08:22	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/14/21 08:22	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	10/14/21 08:22	

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234869

METHOD BLANK: 2299963

Matrix: Water

Associated Lab Samples: 40234869022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<2.6	5.0	10/14/21 08:22	
Dibromomethane	ug/L	<0.99	5.0	10/14/21 08:22	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/14/21 08:22	
Diisopropyl ether	ug/L	<1.1	5.0	10/14/21 08:22	
Ethylbenzene	ug/L	<0.33	1.0	10/14/21 08:22	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	10/14/21 08:22	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	10/14/21 08:22	
m&p-Xylene	ug/L	<0.70	2.0	10/14/21 08:22	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/14/21 08:22	
Methylene Chloride	ug/L	<0.32	5.0	10/14/21 08:22	
n-Butylbenzene	ug/L	<0.86	1.0	10/14/21 08:22	
n-Propylbenzene	ug/L	<0.35	1.0	10/14/21 08:22	
Naphthalene	ug/L	<1.1	5.0	10/14/21 08:22	
o-Xylene	ug/L	<0.35	1.0	10/14/21 08:22	
p-Isopropyltoluene	ug/L	<1.0	5.0	10/14/21 08:22	
sec-Butylbenzene	ug/L	<0.42	1.0	10/14/21 08:22	
Styrene	ug/L	<0.36	1.0	10/14/21 08:22	
tert-Butylbenzene	ug/L	<0.59	1.0	10/14/21 08:22	
Tetrachloroethene	ug/L	<0.41	1.0	10/14/21 08:22	
Toluene	ug/L	<0.29	1.0	10/14/21 08:22	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/14/21 08:22	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	10/14/21 08:22	
Trichloroethene	ug/L	<0.32	1.0	10/14/21 08:22	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/14/21 08:22	
Vinyl chloride	ug/L	<0.17	1.0	10/14/21 08:22	
Xylene (Total)	ug/L	<1.0	3.0	10/14/21 08:22	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	10/14/21 08:22	
4-Bromofluorobenzene (S)	%	96	70-130	10/14/21 08:22	
Toluene-d8 (S)	%	100	70-130	10/14/21 08:22	

LABORATORY CONTROL SAMPLE: 2299964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	40.9	82	66-130	
1,1,2-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethane	ug/L	50	51.0	102	68-132	
1,1-Dichloroethene	ug/L	50	60.0	120	85-126	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	39.6	79	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	46.8	94	70-130	
1,2-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
1,2-Dichloropropane	ug/L	50	46.9	94	78-125	

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234869

LABORATORY CONTROL SAMPLE: 2299964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
Benzene	ug/L	50	49.0	98	70-132	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	53.7	107	65-130	
Bromomethane	ug/L	50	50.1	100	44-128	
Carbon tetrachloride	ug/L	50	58.1	116	70-130	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	54.5	109	73-137	
Chloroform	ug/L	50	53.1	106	80-122	
Chloromethane	ug/L	50	47.1	94	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	41.7	83	22-151	
Ethylbenzene	ug/L	50	50.2	100	80-123	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	66-130	
Methylene Chloride	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	52.1	104	70-130	
Styrene	ug/L	50	54.5	109	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	49.7	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	58-125	
Trichloroethene	ug/L	50	50.3	101	70-130	
Trichlorofluoromethane	ug/L	50	60.7	121	84-148	
Vinyl chloride	ug/L	50	54.8	110	63-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2301811 2301812

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40234929004 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	1.6	50	50	55.9	57.0	109	111	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	42.4	42.9	85	86	66-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	47.0	46.4	94	93	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	50.2	52.0	100	104	68-132	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	59.6	60.5	119	121	76-132	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.0	48.9	96	98	70-130	2	20		

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QUALITY CONTROL DATA

Project: 55929.005 WRR

Pace Project No.: 40234869

Parameter	Units	2301811		2301812		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40234929004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	44.2	44.8	88	90	51-126	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	47.6	47.5	95	95	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.3	48.3	95	97	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	51.0	52.3	102	105	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	47.3	47.2	95	94	77-125	0	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	47.4	48.2	95	96	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	48.3	49.1	97	98	70-130	2	20	
Benzene	ug/L	<0.30	50	50	48.9	49.8	98	100	70-132	2	20	
Bromodichloromethane	ug/L	<0.42	50	50	49.3	48.7	99	97	70-130	1	20	
Bromoform	ug/L	<3.8	50	50	53.4	54.7	107	109	65-130	2	20	
Bromomethane	ug/L	<1.2	50	50	52.5	52.6	105	105	44-128	0	21	
Carbon tetrachloride	ug/L	<0.37	50	50	57.6	58.2	115	116	70-132	1	20	
Chlorobenzene	ug/L	<0.86	50	50	49.2	49.1	98	98	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	56.0	56.1	112	112	70-137	0	20	
Chloroform	ug/L	<1.2	50	50	52.8	54.2	106	108	80-122	3	20	
Chloromethane	ug/L	<1.6	50	50	48.1	48.3	96	97	17-149	0	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	46.9	48.2	94	96	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	47.5	48.0	95	96	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.5	49.9	99	100	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	41.6	42.2	83	84	22-158	1	20	
Ethylbenzene	ug/L	<0.33	50	50	50.5	51.1	101	102	80-123	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.8	54.2	108	108	70-130	1	20	
m&p-Xylene	ug/L	<0.70	100	100	105	105	105	105	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.5	46.1	91	92	66-130	1	20	
Methylene Chloride	ug/L	<0.32	50	50	49.0	50.0	98	100	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	52.2	52.5	104	105	70-130	1	20	
Styrene	ug/L	<0.36	50	50	54.2	55.0	108	110	70-130	2	20	
Tetrachloroethene	ug/L	3.8	50	50	59.7	58.4	112	109	70-130	2	20	
Toluene	ug/L	<0.29	50	50	49.6	50.0	99	100	80-121	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50.5	50.7	101	101	70-134	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	47.2	47.2	94	94	58-130	0	20	
Trichloroethene	ug/L	5.7	50	50	56.0	57.3	101	103	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	59.7	60.1	119	120	82-151	1	20	
Vinyl chloride	ug/L	<0.17	50	50	56.0	55.0	112	110	61-143	2	20	
Xylene (Total)	ug/L	<1.0	150	150	157	158	105	105	70-130	0	20	
1,2-Dichlorobenzene-d4 (S)	%						97	98	70-130			
4-Bromofluorobenzene (S)	%						98	98	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 55929.005 WRR

Pace Project No.: 40234869

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 55929.005 WRR
Pace Project No.: 40234869

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40234869001	W-2'	EPA 8260	398207		
40234869002	W-32'	EPA 8260	398207		
40234869003	W-33'	EPA 8260	398207		
40234869004	W-34'	EPA 8260	398207		
40234869005	W-35'	EPA 8260	398207		
40234869006	MW-111A'	EPA 8260	398207		
40234869007	MW-111A DUP'	EPA 8260	398207		
40234869008	MW-111B'	EPA 8260	398207		
40234869009	MW-114'	EPA 8260	398207		
40234869010	MW-114A'	EPA 8260	398207		
40234869011	SVE-5'	EPA 8260	398207		
40234869012	SVE-7'	EPA 8260	398207		
40234869013	W-27'	EPA 8260	398207		
40234869014	MW-115B'	EPA 8260	398207		
40234869015	MW-115A	EPA 8260	398207		
40234869016	MW-17B	EPA 8260	398207		
40234869017	W-30B	EPA 8260	398207		
40234869018	W-26	EPA 8260	398207		
40234869019	W-30A	EPA 8260	398207		
40234869020	MW-115	EPA 8260	398207		
40234869022	TRIP BLANK	EPA 8260	398427		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

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

Client Name: Garnett Fleming Project # 4023481A

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	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																3																		2.5 / 5 / 10
002																3																		2.5 / 5 / 10
003																3																		2.5 / 5 / 10
004																3																		2.5 / 5 / 10
005																3																		2.5 / 5 / 10
006																3																		2.5 / 5 / 10
007																3																		2.5 / 5 / 10
008																3																		2.5 / 5 / 10
009																3																		2.5 / 5 / 10
010																3																		2.5 / 5 / 10
011																3																		2.5 / 5 / 10
012																3																		2.5 / 5 / 10
013																3																		2.5 / 5 / 10
014																3																		2.5 / 5 / 10
015																3																		2.5 / 5 / 10
016																3																		2.5 / 5 / 10
017																3																		2.5 / 5 / 10
018																3																		2.5 / 5 / 10
019																3																		2.5 / 5 / 10
020																3																		2.5 / 5 / 10

Exceptions to preservation check (VOA) Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 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)

Client Name: Gannett Fleming Project # _____
 Courier: CS Logistics Fed Ex Speedee UPS Waitco
 Client Pace Other: _____

WO# : 40234869



Tracking #: 816073552968
 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 ① melt water only 10/11/21 SKW
 Thermometer Used SR - 105 Type of Ice: Wet Blue Dry (None) Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 8.5 / Corr: 8
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 10/11/21 / Initials: SKW
 Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Fulker, Preserve, Mail + Inv. Info 10/11/21 SKW</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>Pgl only 10/11/21 SKW</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>020 - ID is W-115; Placed by time. 10/11/21 SKW</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>417</u>		

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: PM informed over temp 10/11/21 SKW

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

Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 211001

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
10/07/21	228	74010	0.19	mg/L	PAL		21100877-01	W-32	01	Iron	0.15	0.3
10/07/21	228	680	4.8	mg/L	ES		21100877-01	W-32	01	Organic Carbon, Total	1	0
10/07/21	228		10	mg/L	ES		21100877-01	W-32	01	Nitrogen, Nitrate-Nitrite	1	0
10/07/21	228		52	mg/L	ES		21100877-01	W-32	01	Alkalinity, Total (as CaCO3)	1	0
10/07/21	233	74010	180	mg/L	ES		21100877-02	W-33	01	Iron	0.15	0.3
10/07/21	233	680	46	mg/L	ES		21100877-02	W-33	01	Organic Carbon, Total	1	0
10/07/21	233		190	mg/L	ES		21100877-02	W-33	01	Alkalinity, Total (as CaCO3)	1	0
10/07/21	235	74010	93	mg/L	ES		21100877-03	W-34	01	Iron	0.15	0.3
10/07/21	235	680	89	mg/L	ES		21100877-03	W-34	01	Organic Carbon, Total	1	0
10/07/21	235		140	mg/L	ES		21100877-03	W-34	01	Alkalinity, Total (as CaCO3)	1	0
10/07/21		74010	35	mg/L	ES		21100877-04	W-35	01	Iron	0.15	0.3
10/07/21		680	120	mg/L	ES		21100877-04	W-35	01	Organic Carbon, Total	1	0
10/07/21			380	mg/L	ES		21100877-04	W-35	01	Alkalinity, Total (as CaCO3)	1	0
10/07/21		74010	80	mg/L	ES		21100877-05	SVE-5	01	Iron	0.15	0.3
10/07/21		680	23	mg/L	ES		21100877-05	SVE-5	01	Organic Carbon, Total	1	0
10/07/21			190	mg/L	ES		21100877-05	SVE-5	01	Alkalinity, Total (as CaCO3)	1	0
10/07/21			110	ug/L	ES		21100877-05	SVE-5	01	1,4-Dioxane	0.3	3
10/07/21		74010	1.4	mg/L	ES		21100877-06	SVE-7	01	Iron	0.15	0.3
10/07/21		680	180	mg/L	ES		21100877-06	SVE-7	01	Organic Carbon, Total	1	0
10/07/21			440	mg/L	ES		21100877-06	SVE-7	01	Alkalinity, Total (as CaCO3)	1	0

Wednesday, January 12, 2022

Page 1 of 1

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

MSI: 01-Sample; 02-Sample Duplicate; 03-Sample Triplicate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL

Landfill Name: 55929.005 WRR

License Number: 04234

Report Period: 211001

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
10/08/21	136		7.8	ug/L	ES		21101135-01	W-6	01	1,4-Dioxane	0.3	3
10/08/21	185		15	ug/L	ES		21101135-02	W-19R	01	1,4-Dioxane	0.3	3
10/08/21	404		19	ug/L	ES		21101135-03	TW-1	01	1,4-Dioxane	0.3	3
10/08/21	999		3.7	ug/L	ES		21101135-04	Trip Blank	01	1,4-Dioxane	0.3	3



01-Jun-2021

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

Re: **WRR (55929.005)**

Work Order: **21051818**

Dear Anthony,

ALS Environmental received 14 samples on 20-May-2021 02:30 PM 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 52.

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,

A handwritten signature in black ink that reads "Ehrland Bosworth".

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: WI: 399084510

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21051818

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21051818-01	MW-113	Groundwater		5/18/2021 08:55	5/20/2021 14:30	<input type="checkbox"/>
21051818-02	MW-113A	Groundwater		5/18/2021 09:05	5/20/2021 14:30	<input type="checkbox"/>
21051818-03	MW-113B	Groundwater		5/18/2021 09:20	5/20/2021 14:30	<input type="checkbox"/>
21051818-04	MW-112	Groundwater		5/18/2021 09:45	5/20/2021 14:30	<input type="checkbox"/>
21051818-05	MW-112A	Groundwater		5/18/2021 09:55	5/20/2021 14:30	<input type="checkbox"/>
21051818-06	MW-112B	Groundwater		5/18/2021 10:05	5/20/2021 14:30	<input type="checkbox"/>
21051818-07	MW-30A	Groundwater		5/18/2021 10:20	5/20/2021 14:30	<input type="checkbox"/>
21051818-08	MW-30A Dup	Groundwater		5/18/2021 10:20	5/20/2021 14:30	<input type="checkbox"/>
21051818-09	MW-30B	Groundwater		5/18/2021 10:30	5/20/2021 14:30	<input type="checkbox"/>
21051818-10	MW-115	Groundwater		5/18/2021 10:50	5/20/2021 14:30	<input type="checkbox"/>
21051818-11	MW-115A	Groundwater		5/18/2021 11:00	5/20/2021 14:30	<input type="checkbox"/>
21051818-12	MW-115B	Groundwater		5/18/2021 11:10	5/20/2021 14:30	<input type="checkbox"/>
21051818-13	DW-1	Drinking Wat		5/18/2021 11:35	5/20/2021 14:30	<input type="checkbox"/>
21051818-14	Trip Blank	Water		5/18/2021	5/20/2021 14:30	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 21051818

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 21051818

Case Narrative

Samples for the above noted Work Order were received on 05/20/2021. 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:

Batch R318603W, Method SW8260C, Sample MW-115 (21051818-10A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

Batch R318603W, Method SW8260C, Sample MW-115A (21051818-11A): The reporting limit is elevated due to dilution for high concentrations of non-target analytes.

No other deviations or anomalies were noted.

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113
Collection Date: 5/18/2021 08:55 AM

Work Order: 21051818
Lab ID: 21051818-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 05:03
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:03
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 05:03
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:03
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 05:03
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 05:03
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 05:03
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 05:03
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:03
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:03
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:03
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 05:03
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 05:03
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 05:03
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 05:03
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 05:03
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 05:03
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 05:03
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:03
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:03
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 05:03
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 05:03
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 05:03
2-Propanol	U		33	110	µg/L	1	5/27/2021 05:03
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 05:03
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 05:03
Acetone	U		6.2	21	µg/L	1	5/27/2021 05:03
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 05:03
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 05:03
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 05:03
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 05:03
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 05:03
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 05:03
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 05:03
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 05:03
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 05:03
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 05:03
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 05:03

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113
Collection Date: 5/18/2021 08:55 AM

Work Order: 21051818
Lab ID: 21051818-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 05:03
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 05:03
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 05:03
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 05:03
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 05:03
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 05:03
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:03
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 05:03
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:03
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 05:03
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 05:03
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 05:03
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 05:03
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:03
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 05:03
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 05:03
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 05:03
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 05:03
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 05:03
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 05:03
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 05:03
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 05:03
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 05:03
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 05:03
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 05:03
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 05:03
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 05:03
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 05:03
Surr: 1,2-Dichloroethane-d4	99.0			75-120	%REC	1	5/27/2021 05:03
Surr: 4-Bromofluorobenzene	97.1			80-110	%REC	1	5/27/2021 05:03
Surr: Dibromofluoromethane	97.8			85-115	%REC	1	5/27/2021 05:03
Surr: Toluene-d8	108			85-110	%REC	1	5/27/2021 05:03

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113A
Collection Date: 5/18/2021 09:05 AM

Work Order: 21051818
Lab ID: 21051818-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 05:26
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:26
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 05:26
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:26
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 05:26
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 05:26
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 05:26
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 05:26
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:26
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:26
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:26
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 05:26
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 05:26
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 05:26
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 05:26
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 05:26
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 05:26
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 05:26
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:26
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:26
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 05:26
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 05:26
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 05:26
2-Propanol	U		33	110	µg/L	1	5/27/2021 05:26
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 05:26
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 05:26
Acetone	U		6.2	21	µg/L	1	5/27/2021 05:26
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 05:26
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 05:26
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 05:26
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 05:26
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 05:26
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 05:26
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 05:26
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 05:26
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 05:26
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 05:26
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 05:26

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113A
Collection Date: 5/18/2021 09:05 AM

Work Order: 21051818
Lab ID: 21051818-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 05:26
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 05:26
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 05:26
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 05:26
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 05:26
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 05:26
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:26
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 05:26
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:26
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 05:26
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 05:26
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 05:26
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 05:26
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:26
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 05:26
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 05:26
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 05:26
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 05:26
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 05:26
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 05:26
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 05:26
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 05:26
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 05:26
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 05:26
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 05:26
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 05:26
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 05:26
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 05:26
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	5/27/2021 05:26
Surr: 4-Bromofluorobenzene	97.1			80-110	%REC	1	5/27/2021 05:26
Surr: Dibromofluoromethane	98.0			85-115	%REC	1	5/27/2021 05:26
Surr: Toluene-d8	97.7			85-110	%REC	1	5/27/2021 05:26

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113B
Collection Date: 5/18/2021 09:20 AM

Work Order: 21051818
Lab ID: 21051818-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 05:48
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:48
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 05:48
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 05:48
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 05:48
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 05:48
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 05:48
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 05:48
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:48
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:48
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 05:48
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 05:48
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 05:48
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 05:48
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 05:48
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 05:48
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 05:48
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 05:48
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 05:48
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:48
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 05:48
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 05:48
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 05:48
2-Propanol	U		33	110	µg/L	1	5/27/2021 05:48
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 05:48
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 05:48
Acetone	U		6.2	21	µg/L	1	5/27/2021 05:48
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 05:48
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 05:48
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 05:48
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 05:48
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 05:48
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 05:48
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 05:48
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 05:48
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 05:48
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 05:48
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 05:48

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-113B
Collection Date: 5/18/2021 09:20 AM

Work Order: 21051818
Lab ID: 21051818-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 05:48
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 05:48
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 05:48
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 05:48
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 05:48
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 05:48
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:48
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 05:48
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 05:48
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 05:48
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 05:48
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 05:48
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 05:48
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 05:48
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 05:48
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 05:48
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 05:48
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 05:48
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 05:48
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 05:48
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 05:48
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 05:48
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 05:48
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 05:48
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 05:48
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 05:48
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 05:48
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 05:48
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	5/27/2021 05:48
Surr: 4-Bromofluorobenzene	99.6			80-110	%REC	1	5/27/2021 05:48
Surr: Dibromofluoromethane	97.7			85-115	%REC	1	5/27/2021 05:48
Surr: Toluene-d8	103			85-110	%REC	1	5/27/2021 05:48

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112
Collection Date: 5/18/2021 09:45 AM

Work Order: 21051818
Lab ID: 21051818-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 06:10
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:10
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 06:10
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:10
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 06:10
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 06:10
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 06:10
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 06:10
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:10
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:10
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:10
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 06:10
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 06:10
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 06:10
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 06:10
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 06:10
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 06:10
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 06:10
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:10
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:10
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 06:10
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 06:10
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 06:10
2-Propanol	U		33	110	µg/L	1	5/27/2021 06:10
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 06:10
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 06:10
Acetone	U		6.2	21	µg/L	1	5/27/2021 06:10
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 06:10
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 06:10
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 06:10
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 06:10
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 06:10
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 06:10
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 06:10
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 06:10
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 06:10
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 06:10
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 06:10

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112
Collection Date: 5/18/2021 09:45 AM

Work Order: 21051818
Lab ID: 21051818-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 06:10
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 06:10
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 06:10
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 06:10
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 06:10
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 06:10
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:10
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 06:10
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:10
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 06:10
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 06:10
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 06:10
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 06:10
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:10
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 06:10
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 06:10
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 06:10
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 06:10
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 06:10
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 06:10
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 06:10
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 06:10
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 06:10
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 06:10
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 06:10
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 06:10
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 06:10
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 06:10
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	5/27/2021 06:10
Surr: 4-Bromofluorobenzene	96.5			80-110	%REC	1	5/27/2021 06:10
Surr: Dibromofluoromethane	101			85-115	%REC	1	5/27/2021 06:10
Surr: Toluene-d8	95.6			85-110	%REC	1	5/27/2021 06:10

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112A
Collection Date: 5/18/2021 09:55 AM

Work Order: 21051818
Lab ID: 21051818-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 06:32
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:32
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 06:32
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:32
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 06:32
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 06:32
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 06:32
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 06:32
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:32
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:32
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:32
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 06:32
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 06:32
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 06:32
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 06:32
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 06:32
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 06:32
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 06:32
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:32
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:32
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 06:32
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 06:32
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 06:32
2-Propanol	U		33	110	µg/L	1	5/27/2021 06:32
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 06:32
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 06:32
Acetone	U		6.2	21	µg/L	1	5/27/2021 06:32
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 06:32
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 06:32
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 06:32
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 06:32
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 06:32
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 06:32
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 06:32
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 06:32
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 06:32
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 06:32
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 06:32

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112A
Collection Date: 5/18/2021 09:55 AM

Work Order: 21051818
Lab ID: 21051818-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 06:32
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 06:32
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 06:32
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 06:32
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 06:32
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 06:32
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:32
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 06:32
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:32
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 06:32
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 06:32
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 06:32
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 06:32
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:32
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 06:32
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 06:32
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 06:32
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 06:32
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 06:32
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 06:32
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 06:32
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 06:32
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 06:32
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 06:32
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 06:32
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 06:32
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 06:32
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 06:32
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	5/27/2021 06:32
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	5/27/2021 06:32
Surr: Dibromofluoromethane	103			85-115	%REC	1	5/27/2021 06:32
Surr: Toluene-d8	98.6			85-110	%REC	1	5/27/2021 06:32

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112B
Collection Date: 5/18/2021 10:05 AM

Work Order: 21051818
Lab ID: 21051818-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 06:54
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:54
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 06:54
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 06:54
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 06:54
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 06:54
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 06:54
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 06:54
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:54
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:54
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 06:54
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 06:54
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 06:54
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 06:54
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 06:54
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 06:54
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 06:54
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 06:54
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 06:54
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:54
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 06:54
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 06:54
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 06:54
2-Propanol	U		33	110	µg/L	1	5/27/2021 06:54
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 06:54
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 06:54
Acetone	U		6.2	21	µg/L	1	5/27/2021 06:54
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 06:54
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 06:54
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 06:54
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 06:54
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 06:54
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 06:54
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 06:54
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 06:54
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 06:54
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 06:54
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 06:54

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-112B
Collection Date: 5/18/2021 10:05 AM

Work Order: 21051818
Lab ID: 21051818-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 06:54
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 06:54
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 06:54
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 06:54
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 06:54
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 06:54
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:54
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 06:54
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 06:54
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 06:54
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 06:54
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 06:54
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 06:54
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 06:54
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 06:54
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 06:54
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 06:54
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 06:54
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 06:54
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 06:54
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 06:54
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 06:54
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 06:54
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 06:54
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 06:54
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 06:54
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 06:54
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 06:54
Surr: 1,2-Dichloroethane-d4	95.6			75-120	%REC	1	5/27/2021 06:54
Surr: 4-Bromofluorobenzene	99.8			80-110	%REC	1	5/27/2021 06:54
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	5/27/2021 06:54
Surr: Toluene-d8	99.0			85-110	%REC	1	5/27/2021 06:54

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30A
Collection Date: 5/18/2021 10:20 AM

Work Order: 21051818
Lab ID: 21051818-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 07:17
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 07:17
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 07:17
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 07:17
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 07:17
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 07:17
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 07:17
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 07:17
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 07:17
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 07:17
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 07:17
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 07:17
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 07:17
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 07:17
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 07:17
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 07:17
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 07:17
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 07:17
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 07:17
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 07:17
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 07:17
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 07:17
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 07:17
2-Propanol	U		33	110	µg/L	1	5/27/2021 07:17
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 07:17
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 07:17
Acetone	U		6.2	21	µg/L	1	5/27/2021 07:17
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 07:17
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 07:17
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 07:17
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 07:17
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 07:17
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 07:17
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 07:17
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 07:17
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 07:17
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 07:17
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 07:17

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30A
Collection Date: 5/18/2021 10:20 AM

Work Order: 21051818
Lab ID: 21051818-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 07:17
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 07:17
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 07:17
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 07:17
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 07:17
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 07:17
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 07:17
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 07:17
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 07:17
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 07:17
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 07:17
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 07:17
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 07:17
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 07:17
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 07:17
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 07:17
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 07:17
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 07:17
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 07:17
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 07:17
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 07:17
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 07:17
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 07:17
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 07:17
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 07:17
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 07:17
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 07:17
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 07:17
Surr: 1,2-Dichloroethane-d4	97.2			75-120	%REC	1	5/27/2021 07:17
Surr: 4-Bromofluorobenzene	92.4			80-110	%REC	1	5/27/2021 07:17
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	5/27/2021 07:17
Surr: Toluene-d8	103			85-110	%REC	1	5/27/2021 07:17

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30A Dup
Collection Date: 5/18/2021 10:20 AM

Work Order: 21051818
Lab ID: 21051818-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 07:39
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 07:39
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 07:39
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 07:39
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 07:39
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 07:39
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 07:39
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 07:39
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 07:39
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 07:39
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 07:39
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 07:39
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 07:39
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 07:39
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 07:39
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 07:39
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 07:39
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 07:39
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 07:39
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 07:39
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 07:39
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 07:39
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 07:39
2-Propanol	U		33	110	µg/L	1	5/27/2021 07:39
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 07:39
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 07:39
Acetone	U		6.2	21	µg/L	1	5/27/2021 07:39
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 07:39
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 07:39
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 07:39
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 07:39
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 07:39
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 07:39
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 07:39
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 07:39
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 07:39
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 07:39
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 07:39

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30A Dup
Collection Date: 5/18/2021 10:20 AM

Work Order: 21051818
Lab ID: 21051818-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 07:39
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 07:39
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 07:39
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 07:39
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 07:39
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 07:39
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 07:39
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 07:39
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 07:39
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 07:39
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 07:39
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 07:39
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 07:39
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 07:39
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 07:39
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 07:39
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 07:39
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 07:39
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 07:39
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 07:39
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 07:39
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 07:39
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 07:39
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 07:39
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 07:39
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 07:39
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 07:39
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 07:39
Surr: 1,2-Dichloroethane-d4	99.2			75-120	%REC	1	5/27/2021 07:39
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	5/27/2021 07:39
Surr: Dibromofluoromethane	98.6			85-115	%REC	1	5/27/2021 07:39
Surr: Toluene-d8	100			85-110	%REC	1	5/27/2021 07:39

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30B
Collection Date: 5/18/2021 10:30 AM

Work Order: 21051818
Lab ID: 21051818-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 08:01
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 08:01
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 08:01
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 08:01
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 08:01
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 08:01
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 08:01
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 08:01
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 08:01
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 08:01
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 08:01
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 08:01
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 08:01
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 08:01
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 08:01
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 08:01
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 08:01
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 08:01
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 08:01
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 08:01
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 08:01
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 08:01
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 08:01
2-Propanol	U		33	110	µg/L	1	5/27/2021 08:01
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 08:01
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 08:01
Acetone	U		6.2	21	µg/L	1	5/27/2021 08:01
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 08:01
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 08:01
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 08:01
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 08:01
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 08:01
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 08:01
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 08:01
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 08:01
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 08:01
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 08:01
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 08:01

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-30B
Collection Date: 5/18/2021 10:30 AM

Work Order: 21051818
Lab ID: 21051818-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 08:01
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 08:01
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 08:01
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 08:01
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 08:01
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 08:01
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 08:01
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 08:01
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 08:01
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 08:01
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 08:01
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 08:01
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 08:01
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 08:01
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 08:01
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 08:01
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 08:01
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 08:01
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 08:01
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 08:01
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 08:01
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 08:01
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 08:01
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 08:01
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 08:01
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 08:01
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 08:01
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 08:01
Surr: 1,2-Dichloroethane-d4	99.6			75-120	%REC	1	5/27/2021 08:01
Surr: 4-Bromofluorobenzene	99.0			80-110	%REC	1	5/27/2021 08:01
Surr: Dibromofluoromethane	104			85-115	%REC	1	5/27/2021 08:01
Surr: Toluene-d8	107			85-110	%REC	1	5/27/2021 08:01

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115
Collection Date: 5/18/2021 10:50 AM

Work Order: 21051818
Lab ID: 21051818-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: SJB	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	5/29/2021 02:15
1,1,1-Trichloroethane	U		2.3	7.6	µg/L	5	5/29/2021 02:15
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	5/29/2021 02:15
1,1,2-Trichloroethane	U		2.3	7.7	µg/L	5	5/29/2021 02:15
1,1-Dichloroethane	32		2.2	7.4	µg/L	5	5/29/2021 02:15
1,1-Dichloroethene	U		2.0	6.8	µg/L	5	5/29/2021 02:15
1,1-Dichloropropene	8.0		1.8	6.2	µg/L	5	5/27/2021 17:42
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	5/29/2021 02:15
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	5/29/2021 02:15
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	5/29/2021 02:15
1,2,4-Trimethylbenzene	U		2.2	7.5	µg/L	5	5/29/2021 02:15
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	5/29/2021 02:15
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	5/29/2021 02:15
1,2-Dichlorobenzene	U		1.6	5.4	µg/L	5	5/29/2021 02:15
1,2-Dichloroethane	31		2.2	7.2	µg/L	5	5/29/2021 02:15
1,2-Dichloropropane	U		2.4	8.0	µg/L	5	5/29/2021 02:15
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	5/29/2021 02:15
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	5/29/2021 02:15
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	5/29/2021 02:15
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	5/29/2021 02:15
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	5/29/2021 02:15
2-Butanone	U		2.6	8.6	µg/L	5	5/29/2021 02:15
2-Chlorotoluene	U		1.8	6.0	µg/L	5	5/29/2021 02:15
2-Propanol	U		160	540	µg/L	5	5/27/2021 17:42
4-Chlorotoluene	U		1.6	5.1	µg/L	5	5/29/2021 02:15
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	5/29/2021 02:15
Acetone	U		31	100	µg/L	5	5/29/2021 02:15
Benzene	11		2.3	7.6	µg/L	5	5/29/2021 02:15
Bromobenzene	U		1.9	6.3	µg/L	5	5/29/2021 02:15
Bromochloromethane	U		2.2	7.4	µg/L	5	5/29/2021 02:15
Bromodichloromethane	U		2.4	8.2	µg/L	5	5/29/2021 02:15
Bromoform	U		2.8	9.4	µg/L	5	5/29/2021 02:15
Bromomethane	U		4.5	15	µg/L	5	5/29/2021 02:15
Carbon tetrachloride	U		2.0	6.8	µg/L	5	5/29/2021 02:15
Chlorobenzene	U		2.0	6.7	µg/L	5	5/29/2021 02:15
Chloroethane	1,000		17	57	µg/L	25	5/27/2021 08:23
Chloroform	U		2.3	7.6	µg/L	5	5/29/2021 02:15
Chloromethane	U		4.2	14	µg/L	5	5/29/2021 02:15

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115
Collection Date: 5/18/2021 10:50 AM

Work Order: 21051818
Lab ID: 21051818-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		2.1	6.9	µg/L	5	5/29/2021 02:15
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	5/29/2021 02:15
Dibromochloromethane	U		2.0	6.6	µg/L	5	5/29/2021 02:15
Dibromomethane	U		3.2	11	µg/L	5	5/29/2021 02:15
Dichlorodifluoromethane	U		3.4	11	µg/L	5	5/29/2021 02:15
Diisopropyl ether	U		2.0	6.8	µg/L	5	5/29/2021 02:15
Ethylbenzene	1.8	J	1.7	5.6	µg/L	5	5/29/2021 02:15
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	5/29/2021 02:15
Isopropylbenzene	U		1.8	5.8	µg/L	5	5/29/2021 02:15
m,p-Xylene	U		4.0	14	µg/L	5	5/29/2021 02:15
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	5/29/2021 02:15
Methylene chloride	4.4	J	4.3	14	µg/L	5	5/29/2021 02:15
Naphthalene	U		3.8	13	µg/L	5	5/29/2021 02:15
n-Butylbenzene	U		1.7	5.6	µg/L	5	5/29/2021 02:15
n-Propylbenzene	U		2.4	8.0	µg/L	5	5/29/2021 02:15
o-Xylene	4.8	J	1.6	5.2	µg/L	5	5/29/2021 02:15
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	5/29/2021 02:15
sec-Butylbenzene	U		1.5	5.0	µg/L	5	5/29/2021 02:15
Styrene	U		1.6	5.6	µg/L	5	5/29/2021 02:15
tert-Butylbenzene	U		2.0	6.6	µg/L	5	5/29/2021 02:15
Tetrachloroethene	U		2.0	6.6	µg/L	5	5/29/2021 02:15
Toluene	47		2.2	7.6	µg/L	5	5/29/2021 02:15
trans-1,2-Dichloroethene	14		2.4	8.0	µg/L	5	5/27/2021 17:42
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	5/29/2021 02:15
Trichloroethene	U		2.2	7.2	µg/L	5	5/29/2021 02:15
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	5/29/2021 02:15
Vinyl chloride	U		2.6	8.8	µg/L	5	5/29/2021 02:15
Xylenes, Total	4.8	J	4.0	22	µg/L	5	5/29/2021 02:15
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	25	5/27/2021 08:23
Surr: 1,2-Dichloroethane-d4	98.2			75-120	%REC	5	5/27/2021 17:42
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	5	5/29/2021 02:15
Surr: 4-Bromofluorobenzene	98.9			80-110	%REC	25	5/27/2021 08:23
Surr: 4-Bromofluorobenzene	108			80-110	%REC	5	5/27/2021 17:42
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	5	5/29/2021 02:15
Surr: Dibromofluoromethane	102			85-115	%REC	25	5/27/2021 08:23
Surr: Dibromofluoromethane	90.9			85-115	%REC	5	5/27/2021 17:42
Surr: Dibromofluoromethane	103			85-115	%REC	5	5/29/2021 02:15
Surr: Toluene-d8	98.6			85-110	%REC	25	5/27/2021 08:23
Surr: Toluene-d8	115	S		85-110	%REC	5	5/27/2021 17:42
Surr: Toluene-d8	96.1			85-110	%REC	5	5/29/2021 02:15

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115A
Collection Date: 5/18/2021 11:00 AM

Work Order: 21051818
Lab ID: 21051818-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: SJB	
1,1,1,2-Tetrachloroethane	U		1.9	6.4	µg/L	5	5/29/2021 02:39
1,1,1-Trichloroethane	U		2.3	7.6	µg/L	5	5/29/2021 02:39
1,1,2,2-Tetrachloroethane	U		2.0	6.7	µg/L	5	5/29/2021 02:39
1,1,2-Trichloroethane	23		2.3	7.7	µg/L	5	5/29/2021 02:39
1,1-Dichloroethane	410		2.2	7.4	µg/L	5	5/29/2021 02:39
1,1-Dichloroethene	180		2.0	6.8	µg/L	5	5/29/2021 02:39
1,1-Dichloropropene	U		1.8	6.2	µg/L	5	5/27/2021 17:57
1,2,3-Trichlorobenzene	U		2.1	7.0	µg/L	5	5/29/2021 02:39
1,2,3-Trichloropropane	U		2.0	6.6	µg/L	5	5/29/2021 02:39
1,2,4-Trichlorobenzene	U		2.2	7.6	µg/L	5	5/29/2021 02:39
1,2,4-Trimethylbenzene	U		2.2	7.5	µg/L	5	5/29/2021 02:39
1,2-Dibromo-3-chloropropane	U		2.2	7.2	µg/L	5	5/29/2021 02:39
1,2-Dibromoethane	U		2.0	6.8	µg/L	5	5/29/2021 02:39
1,2-Dichlorobenzene	U		1.6	5.4	µg/L	5	5/29/2021 02:39
1,2-Dichloroethane	12		2.2	7.2	µg/L	5	5/29/2021 02:39
1,2-Dichloropropane	19		2.4	8.0	µg/L	5	5/29/2021 02:39
1,3,5-Trimethylbenzene	U		3.2	11	µg/L	5	5/29/2021 02:39
1,3-Dichlorobenzene	U		1.6	5.4	µg/L	5	5/29/2021 02:39
1,3-Dichloropropane	U		2.0	6.6	µg/L	5	5/29/2021 02:39
1,4-Dichlorobenzene	U		1.8	5.8	µg/L	5	5/29/2021 02:39
2,2-Dichloropropane	U		2.6	8.6	µg/L	5	5/29/2021 02:39
2-Butanone	U		2.6	8.6	µg/L	5	5/29/2021 02:39
2-Chlorotoluene	U		1.8	6.0	µg/L	5	5/29/2021 02:39
2-Propanol	U		160	540	µg/L	5	5/27/2021 17:57
4-Chlorotoluene	U		1.6	5.1	µg/L	5	5/29/2021 02:39
4-Methyl-2-pentanone	U		2.6	8.6	µg/L	5	5/29/2021 02:39
Acetone	U		31	100	µg/L	5	5/29/2021 02:39
Benzene	U		2.3	7.6	µg/L	5	5/29/2021 02:39
Bromobenzene	U		1.9	6.3	µg/L	5	5/29/2021 02:39
Bromochloromethane	U		2.2	7.4	µg/L	5	5/29/2021 02:39
Bromodichloromethane	U		2.4	8.2	µg/L	5	5/29/2021 02:39
Bromoform	U		2.8	9.4	µg/L	5	5/29/2021 02:39
Bromomethane	U		4.5	15	µg/L	5	5/29/2021 02:39
Carbon tetrachloride	U		2.0	6.8	µg/L	5	5/29/2021 02:39
Chlorobenzene	U		2.0	6.7	µg/L	5	5/29/2021 02:39
Chloroethane	U		3.4	11	µg/L	5	5/29/2021 02:39
Chloroform	U		2.3	7.6	µg/L	5	5/29/2021 02:39
Chloromethane	U		4.2	14	µg/L	5	5/29/2021 02:39

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115A
Collection Date: 5/18/2021 11:00 AM

Work Order: 21051818
Lab ID: 21051818-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	1,700		21	69	µg/L	50	5/27/2021 08:45
cis-1,3-Dichloropropene	U		2.8	9.6	µg/L	5	5/29/2021 02:39
Dibromochloromethane	U		2.0	6.6	µg/L	5	5/29/2021 02:39
Dibromomethane	U		3.2	11	µg/L	5	5/29/2021 02:39
Dichlorodifluoromethane	U		3.4	11	µg/L	5	5/29/2021 02:39
Diisopropyl ether	U		2.0	6.8	µg/L	5	5/29/2021 02:39
Ethylbenzene	U		1.7	5.6	µg/L	5	5/29/2021 02:39
Hexachlorobutadiene	U		2.8	9.4	µg/L	5	5/29/2021 02:39
Isopropylbenzene	U		1.8	5.8	µg/L	5	5/29/2021 02:39
m,p-Xylene	U		4.0	14	µg/L	5	5/29/2021 02:39
Methyl tert-butyl ether	U		2.2	7.6	µg/L	5	5/29/2021 02:39
Methylene chloride	4.4	J	4.3	14	µg/L	5	5/29/2021 02:39
Naphthalene	U		3.8	13	µg/L	5	5/29/2021 02:39
n-Butylbenzene	U		1.7	5.6	µg/L	5	5/29/2021 02:39
n-Propylbenzene	U		2.4	8.0	µg/L	5	5/29/2021 02:39
o-Xylene	U		1.6	5.2	µg/L	5	5/29/2021 02:39
p-Isopropyltoluene	U		1.3	4.4	µg/L	5	5/29/2021 02:39
sec-Butylbenzene	U		1.5	5.0	µg/L	5	5/29/2021 02:39
Styrene	U		1.6	5.6	µg/L	5	5/29/2021 02:39
tert-Butylbenzene	U		2.0	6.6	µg/L	5	5/29/2021 02:39
Tetrachloroethene	2.0	J	2.0	6.6	µg/L	5	5/29/2021 02:39
Toluene	U		2.2	7.6	µg/L	5	5/29/2021 02:39
trans-1,2-Dichloroethene	32		2.4	8.0	µg/L	5	5/27/2021 17:57
trans-1,3-Dichloropropene	U		1.9	14	µg/L	5	5/29/2021 02:39
Trichloroethene	83		2.2	7.2	µg/L	5	5/29/2021 02:39
Trichlorofluoromethane	U		2.6	8.6	µg/L	5	5/29/2021 02:39
Vinyl chloride	U		2.6	8.8	µg/L	5	5/29/2021 02:39
Xylenes, Total	U		4.0	22	µg/L	5	5/29/2021 02:39
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	50	5/27/2021 08:45
Surr: 1,2-Dichloroethane-d4	93.2			75-120	%REC	5	5/27/2021 17:57
Surr: 1,2-Dichloroethane-d4	96.5			75-120	%REC	5	5/29/2021 02:39
Surr: 4-Bromofluorobenzene	102			80-110	%REC	50	5/27/2021 08:45
Surr: 4-Bromofluorobenzene	85.0			80-110	%REC	5	5/27/2021 17:57
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	5	5/29/2021 02:39
Surr: Dibromofluoromethane	101			85-115	%REC	50	5/27/2021 08:45
Surr: Dibromofluoromethane	95.8			85-115	%REC	5	5/27/2021 17:57
Surr: Dibromofluoromethane	102			85-115	%REC	5	5/29/2021 02:39
Surr: Toluene-d8	99.0			85-110	%REC	50	5/27/2021 08:45
Surr: Toluene-d8	98.9			85-110	%REC	5	5/27/2021 17:57
Surr: Toluene-d8	96.8			85-110	%REC	5	5/29/2021 02:39

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115B
Collection Date: 5/18/2021 11:10 AM

Work Order: 21051818
Lab ID: 21051818-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 09:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 09:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 09:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 09:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 09:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 09:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 09:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 09:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 09:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 09:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 09:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 09:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 09:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 09:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 09:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 09:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 09:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 09:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 09:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 09:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 09:07
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 09:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 09:07
2-Propanol	U		33	110	µg/L	1	5/27/2021 09:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 09:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 09:07
Acetone	U		6.2	21	µg/L	1	5/27/2021 09:07
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 09:07
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 09:07
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 09:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 09:07
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 09:07
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 09:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 09:07
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 09:07
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 09:07
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 09:07
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 09:07

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: MW-115B
Collection Date: 5/18/2021 11:10 AM

Work Order: 21051818
Lab ID: 21051818-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	0.50	J	0.42	1.4	µg/L	1	5/27/2021 09:07
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 09:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 09:07
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 09:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 09:07
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 09:07
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 09:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 09:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 09:07
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 09:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 09:07
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 09:07
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 09:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 09:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 09:07
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 09:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 09:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 09:07
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 09:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 09:07
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 09:07
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 09:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 09:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 09:07
Trichloroethene	0.79	J	0.43	1.4	µg/L	1	5/27/2021 09:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 09:07
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 09:07
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 09:07
Surr: 1,2-Dichloroethane-d4	97.1			75-120	%REC	1	5/27/2021 09:07
Surr: 4-Bromofluorobenzene	98.5			80-110	%REC	1	5/27/2021 09:07
Surr: Dibromofluoromethane	95.2			85-115	%REC	1	5/27/2021 09:07
Surr: Toluene-d8	98.5			85-110	%REC	1	5/27/2021 09:07

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: DW-1
Collection Date: 5/18/2021 11:35 AM

Work Order: 21051818
Lab ID: 21051818-13
Matrix: DRINKING WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Analyst: JNS		
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 09:30
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 09:30
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 09:30
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 09:30
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 09:30
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 09:30
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 09:30
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 09:30
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 09:30
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 09:30
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 09:30
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 09:30
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 09:30
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 09:30
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 09:30
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 09:30
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 09:30
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 09:30
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 09:30
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 09:30
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 09:30
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 09:30
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 09:30
2-Propanol	U		33	110	µg/L	1	5/27/2021 09:30
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 09:30
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 09:30
Acetone	U		6.2	21	µg/L	1	5/27/2021 09:30
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 09:30
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 09:30
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 09:30
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 09:30
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 09:30
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 09:30
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 09:30
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 09:30
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 09:30
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 09:30
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 09:30

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: DW-1
Collection Date: 5/18/2021 11:35 AM

Work Order: 21051818
Lab ID: 21051818-13
Matrix: DRINKING WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 09:30
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 09:30
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 09:30
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 09:30
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 09:30
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 09:30
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 09:30
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 09:30
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 09:30
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 09:30
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 09:30
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 09:30
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 09:30
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 09:30
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 09:30
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 09:30
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 09:30
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 09:30
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 09:30
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 09:30
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 09:30
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 09:30
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 09:30
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 09:30
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 09:30
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 09:30
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 09:30
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 09:30
Surr: 1,2-Dichloroethane-d4	99.1			75-120	%REC	1	5/27/2021 09:30
Surr: 4-Bromofluorobenzene	98.1			80-110	%REC	1	5/27/2021 09:30
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	5/27/2021 09:30
Surr: Toluene-d8	102			85-110	%REC	1	5/27/2021 09:30

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/18/2021

Work Order: 21051818
Lab ID: 21051818-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: JNS	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	5/27/2021 04:19
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 04:19
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	5/27/2021 04:19
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	5/27/2021 04:19
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	5/27/2021 04:19
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	5/27/2021 04:19
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	5/27/2021 04:19
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	5/27/2021 04:19
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 04:19
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	5/27/2021 04:19
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	5/27/2021 04:19
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	5/27/2021 04:19
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	5/27/2021 04:19
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	5/27/2021 04:19
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	5/27/2021 04:19
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	5/27/2021 04:19
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	5/27/2021 04:19
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	5/27/2021 04:19
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	5/27/2021 04:19
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	5/27/2021 04:19
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	5/27/2021 04:19
2-Butanone	U		0.52	1.7	µg/L	1	5/27/2021 04:19
2-Chlorotoluene	U		0.36	1.2	µg/L	1	5/27/2021 04:19
2-Propanol	U		33	110	µg/L	1	5/27/2021 04:19
4-Chlorotoluene	U		0.31	1.0	µg/L	1	5/27/2021 04:19
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	5/27/2021 04:19
Acetone	U		6.2	21	µg/L	1	5/27/2021 04:19
Benzene	U		0.46	1.5	µg/L	1	5/27/2021 04:19
Bromobenzene	U		0.38	1.3	µg/L	1	5/27/2021 04:19
Bromochloromethane	U		0.45	1.5	µg/L	1	5/27/2021 04:19
Bromodichloromethane	U		0.49	1.6	µg/L	1	5/27/2021 04:19
Bromoform	U		0.56	1.9	µg/L	1	5/27/2021 04:19
Bromomethane	U		0.90	3.0	µg/L	1	5/27/2021 04:19
Carbon tetrachloride	U		0.40	1.4	µg/L	1	5/27/2021 04:19
Chlorobenzene	U		0.40	1.3	µg/L	1	5/27/2021 04:19
Chloroethane	U		0.68	2.3	µg/L	1	5/27/2021 04:19
Chloroform	U		0.46	1.5	µg/L	1	5/27/2021 04:19
Chloromethane	U		0.83	2.8	µg/L	1	5/27/2021 04:19

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

ALS Group, USA

Date: 01-Jun-21

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/18/2021

Work Order: 21051818
Lab ID: 21051818-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	5/27/2021 04:19
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	5/27/2021 04:19
Dibromochloromethane	U		0.40	1.3	µg/L	1	5/27/2021 04:19
Dibromomethane	U		0.65	2.2	µg/L	1	5/27/2021 04:19
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	5/27/2021 04:19
Diisopropyl ether	U		0.41	1.4	µg/L	1	5/27/2021 04:19
Ethylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 04:19
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	5/27/2021 04:19
Isopropylbenzene	U		0.35	1.2	µg/L	1	5/27/2021 04:19
m,p-Xylene	U		0.81	2.7	µg/L	1	5/27/2021 04:19
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	5/27/2021 04:19
Methylene chloride	U		0.86	2.9	µg/L	1	5/27/2021 04:19
Naphthalene	U		0.77	2.6	µg/L	1	5/27/2021 04:19
n-Butylbenzene	U		0.34	1.1	µg/L	1	5/27/2021 04:19
n-Propylbenzene	U		0.48	1.6	µg/L	1	5/27/2021 04:19
o-Xylene	U		0.31	1.0	µg/L	1	5/27/2021 04:19
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	5/27/2021 04:19
sec-Butylbenzene	U		0.30	1.0	µg/L	1	5/27/2021 04:19
Styrene	U		0.33	1.1	µg/L	1	5/27/2021 04:19
tert-Butylbenzene	U		0.39	1.3	µg/L	1	5/27/2021 04:19
Tetrachloroethene	U		0.39	1.3	µg/L	1	5/27/2021 04:19
Toluene	U		0.45	1.5	µg/L	1	5/27/2021 04:19
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	5/27/2021 04:19
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	5/27/2021 04:19
Trichloroethene	U		0.43	1.4	µg/L	1	5/27/2021 04:19
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	5/27/2021 04:19
Vinyl chloride	U		0.53	1.8	µg/L	1	5/27/2021 04:19
Xylenes, Total	U		0.81	4.4	µg/L	1	5/27/2021 04:19
Surr: 1,2-Dichloroethane-d4	98.6			75-120	%REC	1	5/27/2021 04:19
Surr: 4-Bromofluorobenzene	86.8			80-110	%REC	1	5/27/2021 04:19
Surr: Dibromofluoromethane	98.7			85-115	%REC	1	5/27/2021 04:19
Surr: Toluene-d8	95.5			85-110	%REC	1	5/27/2021 04:19

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318409** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: 11V-BLKW2-210526-R318409			Units: µg/L		Analysis Date: 5/27/2021 03:35 AM				
Client ID:		Run ID: VMS11_210526A			SeqNo: 7433605		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								
2-Propanol	U	33	110								
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								

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318409	Instrument ID VMS11	Method: SW8260C						
Dibromomethane	U	0.65	2.2					
Dichlorodifluoromethane	U	0.68	2.3					
Diisopropyl ether	U	0.41	1.4					
Ethylbenzene	U	0.34	1.1					
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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.94</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.7</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>21.32</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>107</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.05</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.2</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318409** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: 11V-LCSW1-210526-R318409				Units: µg/L		Analysis Date: 5/27/2021 02:28 AM			
Client ID:		Run ID: VMS11_210526A			SeqNo: 7433603		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	19.36	0.38	1.3	20	0	96.8	73-114	0			
1,1,1-Trichloroethane	20.64	0.46	1.5	20	0	103	75-130	0			
1,1,2,2-Tetrachloroethane	19.25	0.4	1.3	20	0	96.2	75-130	0			
1,1,2-Trichloroethane	19.84	0.46	1.5	20	0	99.2	75-125	0			
1,1-Dichloroethane	20.07	0.44	1.5	20	0	100	68-142	0			
1,1-Dichloroethene	20.17	0.4	1.4	20	0	101	70-145	0			
1,1-Dichloropropene	18.12	0.37	1.2	20	0	90.6	75-135	0			
1,2,3-Trichlorobenzene	19.89	0.42	1.4	20	0	99.4	70-140	0			
1,2,3-Trichloropropane	18.82	0.4	1.3	20	0	94.1	75-125	0			
1,2,4-Trichlorobenzene	19.87	0.45	1.5	20	0	99.4	70-135	0			
1,2,4-Trimethylbenzene	20.18	0.45	1.5	20	0	101	75-130	0			
1,2-Dibromo-3-chloropropane	17.92	0.43	1.4	20	0	89.6	60-130	0			
1,2-Dibromoethane	20.17	0.41	1.4	20	0	101	67-155	0			
1,2-Dichlorobenzene	19.24	0.32	1.1	20	0	96.2	70-130	0			
1,2-Dichloroethane	19.64	0.44	1.4	20	0	98.2	78-125	0			
1,2-Dichloropropane	19.94	0.48	1.6	20	0	99.7	75-125	0			
1,3,5-Trimethylbenzene	20.79	0.65	2.2	20	0	104	75-130	0			
1,3-Dichlorobenzene	19.21	0.33	1.1	20	0	96	75-130	0			
1,3-Dichloropropane	18.76	0.4	1.3	20	0	93.8	75-125	0			
1,4-Dichlorobenzene	19.94	0.35	1.2	20	0	99.7	75-130	0			
2,2-Dichloropropane	18.18	0.52	1.7	20	0	90.9	43-150	0			
2-Butanone	19.54	0.52	1.7	20	0	97.7	55-150	0			
2-Chlorotoluene	20.19	0.36	1.2	20	0	101	76-117	0			
4-Chlorotoluene	19.85	0.31	1.0	20	0	99.2	80-125	0			
4-Methyl-2-pentanone	24.29	0.52	1.7	20	0	121	77-178	0			
Acetone	20.39	6.2	21	20	0	102	60-160	0			J
Benzene	19.73	0.46	1.5	20	0	98.6	70-130	0			
Bromobenzene	19.28	0.38	1.3	20	0	96.4	80-125	0			
Bromochloromethane	18.66	0.45	1.5	20	0	93.3	72-141	0			
Bromodichloromethane	20.97	0.49	1.6	20	0	105	75-125	0			
Bromoform	19.72	0.56	1.9	20	0	98.6	60-125	0			
Bromomethane	21.41	0.9	3.0	20	0	107	30-185	0			
Carbon tetrachloride	20.99	0.4	1.4	20	0	105	65-140	0			
Chlorobenzene	20.4	0.4	1.3	20	0	102	80-120	0			
Chloroethane	19.24	0.68	2.3	20	0	96.2	31-172	0			
Chloroform	19.78	0.46	1.5	20	0	98.9	66-135	0			
Chloromethane	17.67	0.83	2.8	20	0	88.4	46-148	0			
cis-1,2-Dichloroethene	19.93	0.42	1.4	20	0	99.6	75-134	0			
cis-1,3-Dichloropropene	19	0.57	1.9	20	0	95	70-130	0			
Dibromochloromethane	18.41	0.4	1.3	20	0	92	60-115	0			
Dibromomethane	19.84	0.65	2.2	20	0	99.2	79-126	0			
Dichlorodifluoromethane	17.12	0.68	2.3	20	0	85.6	10-180	0			
Diisopropyl ether	21.71	0.41	1.4	20	0	109	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318409	Instrument ID VMS11		Method: SW8260C						
Ethylbenzene	19.54	0.34	1.1	20	0	97.7	76-123	0	
Hexachlorobutadiene	21.3	0.56	1.9	20	0	106	70-155	0	
Isopropylbenzene	19.77	0.35	1.2	20	0	98.8	80-127	0	
m,p-Xylene	40.2	0.81	2.7	40	0	100	75-130	0	
Methyl tert-butyl ether	23.58	0.45	1.5	20	0	118	68-129	0	
Methylene chloride	20.42	0.86	2.9	20	0	102	72-125	0	
Naphthalene	18.66	0.77	2.6	20	0	93.3	55-160	0	
n-Butylbenzene	18.21	0.34	1.1	20	0	91	75-145	0	
n-Propylbenzene	19.43	0.48	1.6	20	0	97.2	76-116	0	
o-Xylene	20.46	0.31	1.0	20	0	102	76-127	0	
p-Isopropyltoluene	19.39	0.26	0.88	20	0	97	61-164	0	
sec-Butylbenzene	20.07	0.3	1.0	20	0	100	80-134	0	
Styrene	19.46	0.33	1.1	20	0	97.3	79-117	0	
tert-Butylbenzene	18.98	0.39	1.3	20	0	94.9	70-130	0	
Tetrachloroethene	20.66	0.39	1.3	20	0	103	68-166	0	
Toluene	19.18	0.45	1.5	20	0	95.9	76-125	0	
trans-1,2-Dichloroethene	20.16	0.48	1.6	20	0	101	80-140	0	
trans-1,3-Dichloropropene	19.01	0.38	2.7	20	0	95	56-132	0	
Trichloroethene	19.89	0.43	1.4	20	0	99.4	77-125	0	
Trichlorofluoromethane	17.58	0.52	1.7	20	0	87.9	60-140	0	
Vinyl chloride	19.36	0.53	1.8	20	0	96.8	50-136	0	
Xylenes, Total	60.66	0.81	4.4	60	0	101	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	19.74	0	0	20	0	98.7	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.3	0	0	20	0	102	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.36	0	0	20	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	20.07	0	0	20	0	100	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318409** Instrument ID **VMS11** Method: **SW8260C**

MS		Sample ID: 21051818-11A MS				Units: µg/L		Analysis Date: 5/27/2021 10:14 AM			
Client ID: MW-115A		Run ID: VMS11_210526A				SeqNo: 7433623		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	805.5	19	64	1000	0	80.6	73-114	0			
1,1,1-Trichloroethane	942.5	23	76	1000	0	94.2	75-130	0			
1,1,2,2-Tetrachloroethane	959.5	20	67	1000	0	96	75-130	0			
1,1,2-Trichloroethane	945.5	23	77	1000	15.5	93	75-125	0			
1,1-Dichloroethane	1328	22	74	1000	338	99	68-142	0			
1,1-Dichloroethene	1162	20	68	1000	143.5	102	70-145	0			
1,1-Dichloropropene	852.5	18	62	1000	0	85.2	75-135	0			
1,2,3-Trichlorobenzene	867.5	21	70	1000	0	86.8	70-140	0			
1,2,3-Trichloropropane	954	20	66	1000	0	95.4	75-125	0			
1,2,4-Trichlorobenzene	829	22	76	1000	0	82.9	70-135	0			
1,2,4-Trimethylbenzene	977	22	75	1000	0	97.7	75-130	0			
1,2-Dibromo-3-chloropropane	700.5	22	72	1000	0	70	60-130	0			
1,2-Dibromoethane	918	20	68	1000	0	91.8	67-155	0			
1,2-Dichlorobenzene	897	16	54	1000	0	89.7	70-130	0			
1,2-Dichloroethane	955	22	72	1000	0	95.5	78-125	0			
1,2-Dichloropropane	940	24	80	1000	0	94	75-125	0			
1,3,5-Trimethylbenzene	1015	32	110	1000	0	102	75-130	0			
1,3-Dichlorobenzene	887.5	16	54	1000	0	88.8	75-130	0			
1,3-Dichloropropane	876.5	20	66	1000	0	87.6	75-125	0			
1,4-Dichlorobenzene	908	18	58	1000	0	90.8	75-130	0			
2,2-Dichloropropane	748.5	26	86	1000	0	74.8	43-150	0			
2-Butanone	1002	26	86	1000	0	100	55-150	0			
2-Chlorotoluene	991.5	18	60	1000	0	99.2	76-117	0			
4-Chlorotoluene	953	16	51	1000	0	95.3	80-125	0			
4-Methyl-2-pentanone	1084	26	86	1000	0	108	77-178	0			
Acetone	1070	310	1,000	1000	0	107	60-160	0			
Benzene	943.5	23	76	1000	0	94.4	70-130	0			
Bromobenzene	911	19	63	1000	0	91.1	80-125	0			
Bromochloromethane	922	22	74	1000	0	92.2	72-141	0			
Bromodichloromethane	901	24	82	1000	0	90.1	75-125	0			
Bromoform	747.5	28	94	1000	0	74.8	60-125	0			
Bromomethane	937.5	45	150	1000	0	93.8	30-185	0			
Carbon tetrachloride	888.5	20	68	1000	0	88.8	65-140	0			
Chlorobenzene	946.5	20	67	1000	0	94.6	80-120	0			
Chloroethane	892	34	110	1000	0	89.2	31-172	0			
Chloroform	910	23	76	1000	0	91	66-135	0			
Chloromethane	833.5	42	140	1000	0	83.4	46-148	0			
cis-1,2-Dichloroethene	2770	21	69	1000	1721	105	75-134	0			
cis-1,3-Dichloropropene	820.5	28	96	1000	0	82	70-130	0			
Dibromochloromethane	729.5	20	66	1000	0	73	60-115	0			
Dibromomethane	947	32	110	1000	0	94.7	79-126	0			
Dichlorodifluoromethane	935.5	34	110	1000	0	93.6	10-180	0			
Diisopropyl ether	963	20	68	1000	0	96.3	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318409	Instrument ID VMS11	Method: SW8260C							
Ethylbenzene	897.5	17	56	1000	0	89.8	76-123	0	
Hexachlorobutadiene	887.5	28	94	1000	0	88.8	70-155	0	
Isopropylbenzene	977.5	18	58	1000	0	97.8	80-127	0	
m,p-Xylene	1850	40	140	2000	0	92.5	75-130	0	
Methyl tert-butyl ether	1046	22	76	1000	0	105	68-129	0	
Methylene chloride	999.5	43	140	1000	0	100	72-125	0	
Naphthalene	836.5	38	130	1000	0	83.6	55-160	0	
n-Butylbenzene	870.5	17	56	1000	0	87	75-145	0	
n-Propylbenzene	949.5	24	80	1000	0	95	76-116	0	
o-Xylene	993.5	16	52	1000	0	99.4	76-127	0	
p-Isopropyltoluene	924.5	13	44	1000	0	92.4	61-164	0	
sec-Butylbenzene	971	15	50	1000	0	97.1	80-134	0	
Styrene	944	16	56	1000	0	94.4	79-117	0	
tert-Butylbenzene	946.5	20	66	1000	0	94.6	70-130	0	
Tetrachloroethene	986	20	66	1000	0	98.6	68-166	0	
Toluene	898	22	76	1000	0	89.8	76-125	0	
trans-1,2-Dichloroethene	998	24	80	1000	0	99.8	80-140	0	
trans-1,3-Dichloropropene	791	19	140	1000	0	79.1	56-132	0	
Trichloroethene	1006	22	72	1000	72	93.4	77-125	0	
Trichlorofluoromethane	922	26	86	1000	0	92.2	60-140	0	
Vinyl chloride	985.5	26	88	1000	18	96.8	50-136	0	
Xylenes, Total	2844	40	220	3000	0	94.8	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1006</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1040</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>983.5</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.4</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>983</i>	<i>0</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.3</i>	<i>85-110</i>	<i>0</i>	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318409** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 21051818-11A MSD				Units: µg/L			Analysis Date: 5/27/2021 10:36 AM		
Client ID: MW-115A		Run ID: VMS11_210526A				SeqNo: 7433624		Prep Date:		DF: 50	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	835	19	64	1000	0	83.5	73-114	805.5	3.6	30	
1,1,1-Trichloroethane	956.5	23	76	1000	0	95.6	75-130	942.5	1.47	30	
1,1,2,2-Tetrachloroethane	976.5	20	67	1000	0	97.6	75-130	959.5	1.76	30	
1,1,2-Trichloroethane	982.5	23	77	1000	15.5	96.7	75-125	945.5	3.84	30	
1,1-Dichloroethane	1382	22	74	1000	338	104	68-142	1328	4.02	30	
1,1-Dichloroethene	1195	20	68	1000	143.5	105	70-145	1162	2.8	30	
1,1-Dichloropropene	890.5	18	62	1000	0	89	75-135	852.5	4.36	30	
1,2,3-Trichlorobenzene	972.5	21	70	1000	0	97.2	70-140	867.5	11.4	30	
1,2,3-Trichloropropane	994	20	66	1000	0	99.4	75-125	954	4.11	30	
1,2,4-Trichlorobenzene	911.5	22	76	1000	0	91.2	70-135	829	9.48	30	
1,2,4-Trimethylbenzene	969.5	22	75	1000	0	97	75-130	977	0.771	30	
1,2-Dibromo-3-chloropropane	773	22	72	1000	0	77.3	60-130	700.5	9.84	30	
1,2-Dibromoethane	953.5	20	68	1000	0	95.4	67-155	918	3.79	30	
1,2-Dichlorobenzene	937	16	54	1000	0	93.7	70-130	897	4.36	30	
1,2-Dichloroethane	988.5	22	72	1000	0	98.8	78-125	955	3.45	30	
1,2-Dichloropropane	976	24	80	1000	0	97.6	75-125	940	3.76	30	
1,3,5-Trimethylbenzene	1034	32	110	1000	0	103	75-130	1015	1.81	30	
1,3-Dichlorobenzene	933.5	16	54	1000	0	93.4	75-130	887.5	5.05	30	
1,3-Dichloropropane	922.5	20	66	1000	0	92.2	75-125	876.5	5.11	30	
1,4-Dichlorobenzene	959	18	58	1000	0	95.9	75-130	908	5.46	30	
2,2-Dichloropropane	753.5	26	86	1000	0	75.4	43-150	748.5	0.666	30	
2-Butanone	1052	26	86	1000	0	105	55-150	1002	4.87	30	
2-Chlorotoluene	995	18	60	1000	0	99.5	76-117	991.5	0.352	30	
4-Chlorotoluene	954.5	16	51	1000	0	95.4	80-125	953	0.157	30	
4-Methyl-2-pentanone	1145	26	86	1000	0	114	77-178	1084	5.47	30	
Acetone	1086	310	1,000	1000	0	109	60-160	1070	1.48	30	
Benzene	975.5	23	76	1000	0	97.6	70-130	943.5	3.34	30	
Bromobenzene	930.5	19	63	1000	0	93	80-125	911	2.12	30	
Bromochloromethane	948.5	22	74	1000	0	94.8	72-141	922	2.83	30	
Bromodichloromethane	955	24	82	1000	0	95.5	75-125	901	5.82	30	
Bromoform	801.5	28	94	1000	0	80.2	60-125	747.5	6.97	30	
Bromomethane	983.5	45	150	1000	0	98.4	30-185	937.5	4.79	30	
Carbon tetrachloride	942.5	20	68	1000	0	94.2	65-140	888.5	5.9	30	
Chlorobenzene	987.5	20	67	1000	0	98.8	80-120	946.5	4.24	30	
Chloroethane	891	34	110	1000	0	89.1	31-172	892	0.112	30	
Chloroform	962	23	76	1000	0	96.2	66-135	910	5.56	30	
Chloromethane	828	42	140	1000	0	82.8	46-148	833.5	0.662	30	
cis-1,2-Dichloroethene	2823	21	69	1000	1721	110	75-134	2770	1.9	30	
cis-1,3-Dichloropropene	839	28	96	1000	0	83.9	70-130	820.5	2.23	30	
Dibromochloromethane	775	20	66	1000	0	77.5	60-115	729.5	6.05	30	
Dibromomethane	966	32	110	1000	0	96.6	79-126	947	1.99	30	
Dichlorodifluoromethane	946.5	34	110	1000	0	94.6	10-180	935.5	1.17	30	
Diisopropyl ether	985.5	20	68	1000	0	98.6	58-133	963	2.31	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318409	Instrument ID VMS11			Method: SW8260C						
Ethylbenzene	938.5	17	56	1000	0	93.8	76-123	897.5	4.47	30
Hexachlorobutadiene	959	28	94	1000	0	95.9	70-155	887.5	7.74	30
Isopropylbenzene	973	18	58	1000	0	97.3	80-127	977.5	0.461	30
m,p-Xylene	1944	40	140	2000	0	97.2	75-130	1850	4.9	30
Methyl tert-butyl ether	1108	22	76	1000	0	111	68-129	1046	5.71	30
Methylene chloride	1044	43	140	1000	0	104	72-125	999.5	4.36	30
Naphthalene	941.5	38	130	1000	0	94.2	55-160	836.5	11.8	30
n-Butylbenzene	858	17	56	1000	0	85.8	75-145	870.5	1.45	30
n-Propylbenzene	954.5	24	80	1000	0	95.4	76-116	949.5	0.525	30
o-Xylene	983	16	52	1000	0	98.3	76-127	993.5	1.06	30
p-Isopropyltoluene	938.5	13	44	1000	0	93.8	61-164	924.5	1.5	30
sec-Butylbenzene	990.5	15	50	1000	0	99	80-134	971	1.99	30
Styrene	948.5	16	56	1000	0	94.8	79-117	944	0.476	30
tert-Butylbenzene	957	20	66	1000	0	95.7	70-130	946.5	1.1	30
Tetrachloroethene	1042	20	66	1000	0	104	68-166	986	5.47	30
Toluene	928	22	76	1000	0	92.8	76-125	898	3.29	30
trans-1,2-Dichloroethene	1032	24	80	1000	0	103	80-140	998	3.35	30
trans-1,3-Dichloropropene	829.5	19	140	1000	0	83	56-132	791	4.75	30
Trichloroethene	1066	22	72	1000	72	99.4	77-125	1006	5.79	30
Trichlorofluoromethane	921	26	86	1000	0	92.1	60-140	922	0.109	30
Vinyl chloride	1030	26	88	1000	18	101	50-136	985.5	4.42	30
Xylenes, Total	2926	40	220	3000	0	97.6	76-127	2844	2.86	30
<i>Surr: 1,2-Dichloroethane-d4</i>	1008	0	0	1000	0	101	75-120	1006	0.248	30
<i>Surr: 4-Bromofluorobenzene</i>	1029	0	0	1000	0	103	80-110	1040	1.06	30
<i>Surr: Dibromofluoromethane</i>	1012	0	0	1000	0	101	85-115	983.5	2.86	30
<i>Surr: Toluene-d8</i>	991.5	0	0	1000	0	99.2	85-110	983	0.861	30

The following samples were analyzed in this batch:

21051818-01A	21051818-02A	21051818-03A
21051818-04A	21051818-05A	21051818-06A
21051818-07A	21051818-08A	21051818-09A
21051818-10A	21051818-11A	21051818-12A
21051818-13A	21051818-14A	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318473W** Instrument ID **VMS9** Method: **SW8260C**

MBLK		Sample ID: 9V-BLKW1-210527-R318473W				Units: µg/L		Analysis Date: 5/27/2021 04:55 PM			
Client ID:		Run ID: VMS9_210527A		SeqNo: 7438598		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-Dichloropropene	U	0.37	1.2								
2-Propanol	193.3	33	110								
trans-1,2-Dichloroethene	U	0.48	1.6								
<i>Surr: 1,2-Dichloroethane-d4</i>	22.09	0	0	20	0	110	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	19.45	0	0	20	0	97.2	80-110	0			
<i>Surr: Dibromofluoromethane</i>	20.97	0	0	20	0	105	85-115	0			
<i>Surr: Toluene-d8</i>	21.06	0	0	20	0	105	85-110	0			

LCS		Sample ID: 9V-LCSW1-210527-R318473W				Units: µg/L		Analysis Date: 5/27/2021 04:24 PM			
Client ID:		Run ID: VMS9_210527A		SeqNo: 7438391		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-Dichloropropene	20.13	0.37	1.2	20	0	101	75-135	0			
trans-1,2-Dichloroethene	20.6	0.48	1.6	20	0	103	80-140	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	22.17	0	0	20	0	111	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.39	0	0	20	0	102	80-110	0			
<i>Surr: Dibromofluoromethane</i>	22.25	0	0	20	0	111	85-115	0			
<i>Surr: Toluene-d8</i>	20.08	0	0	20	0	100	85-110	0			

MS		Sample ID: 21051818-10A MS				Units: µg/L		Analysis Date: 5/27/2021 10:52 PM			
Client ID: MW-115		Run ID: VMS9_210527A		SeqNo: 7438421		Prep Date:		DF: 5			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloropropene	90.6	1.8	6.2	100	7.95	82.6	75-135	0			
trans-1,2-Dichloroethene	113.2	2.4	8.0	100	13.55	99.7	80-140	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	94.75	0	0	100	0	94.8	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	91.6	0	0	100	0	91.6	80-110	0			
<i>Surr: Dibromofluoromethane</i>	98.05	0	0	100	0	98	85-115	0			
<i>Surr: Toluene-d8</i>	103	0	0	100	0	103	85-110	0			

MSD		Sample ID: 21051818-10A MSD				Units: µg/L		Analysis Date: 5/27/2021 11:08 PM			
Client ID: MW-115		Run ID: VMS9_210527A		SeqNo: 7438423		Prep Date:		DF: 5			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloropropene	89.4	1.8	6.2	100	7.95	81.4	75-135	90.6	1.33	30	
trans-1,2-Dichloroethene	115.6	2.4	8.0	100	13.55	102	80-140	113.2	2.01	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	92.55	0	0	100	0	92.6	75-120	94.75	2.35	30	
<i>Surr: 4-Bromofluorobenzene</i>	98	0	0	100	0	98	80-110	91.6	6.75	30	
<i>Surr: Dibromofluoromethane</i>	100.3	0	0	100	0	100	85-115	98.05	2.27	30	
<i>Surr: Toluene-d8</i>	96.3	0	0	100	0	96.3	85-110	103	6.77	30	

The following samples were analyzed in this batch: 21051818-10A 21051818-11A

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318603W** Instrument ID **VMS12** Method: **SW8260C**

MBLK		Sample ID: 12V-BLKW1-210528-R318603W			Units: µg/L		Analysis Date: 5/28/2021 06:37 PM				
Client ID:		Run ID: VMS12_210528A			SeqNo: 7441004		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								
1,2,3-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								
Diisopropyl ether	U	0.41	1.4								
Ethylbenzene	U	0.34	1.1								

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W	Instrument ID VMS12	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-1,3-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					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.41</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.48</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.07</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.84</i>	<i>0</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-110</i>	<i>0</i>

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R318603W** Instrument ID **VMS12** Method: **SW8260C**

LCS		Sample ID: 12V-LCSW1-210528-R318603W				Units: µg/L			Analysis Date: 5/28/2021 05:49 PM		
Client ID:		Run ID: VMS12_210528A				SeqNo: 7441003		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	18.29	0.38	1.3	20	0	91.4	73-114	0			
1,1,1-Trichloroethane	17.26	0.46	1.5	20	0	86.3	75-130	0			
1,1,2,2-Tetrachloroethane	17.92	0.4	1.3	20	0	89.6	75-130	0			
1,1,2-Trichloroethane	17.32	0.46	1.5	20	0	86.6	75-125	0			
1,1-Dichloroethane	16.28	0.44	1.5	20	0	81.4	68-142	0			
1,1-Dichloroethene	16.12	0.4	1.4	20	0	80.6	70-145	0			
1,2,3-Trichlorobenzene	19.59	0.42	1.4	20	0	98	70-140	0			
1,2,3-Trichloropropane	17.32	0.4	1.3	20	0	86.6	75-125	0			
1,2,4-Trichlorobenzene	18.56	0.45	1.5	20	0	92.8	70-135	0			
1,2,4-Trimethylbenzene	17.58	0.45	1.5	20	0	87.9	75-130	0			
1,2-Dibromo-3-chloropropane	18.02	0.43	1.4	20	0	90.1	60-130	0			
1,2-Dibromoethane	18.48	0.41	1.4	20	0	92.4	67-155	0			
1,2-Dichlorobenzene	17.99	0.32	1.1	20	0	90	70-130	0			
1,2-Dichloroethane	16.94	0.44	1.4	20	0	84.7	78-125	0			
1,2-Dichloropropane	17.14	0.48	1.6	20	0	85.7	75-125	0			
1,3,5-Trimethylbenzene	18.83	0.65	2.2	20	0	94.2	75-130	0			
1,3-Dichlorobenzene	17.8	0.33	1.1	20	0	89	75-130	0			
1,3-Dichloropropane	17.29	0.4	1.3	20	0	86.4	75-125	0			
1,4-Dichlorobenzene	17.83	0.35	1.2	20	0	89.2	75-130	0			
2,2-Dichloropropane	16.3	0.52	1.7	20	0	81.5	43-150	0			
2-Butanone	16.13	0.52	1.7	20	0	80.6	55-150	0			
2-Chlorotoluene	17.69	0.36	1.2	20	0	88.4	76-117	0			
4-Chlorotoluene	17.7	0.31	1.0	20	0	88.5	80-125	0			
4-Methyl-2-pentanone	19.98	0.52	1.7	20	0	99.9	77-178	0			
Acetone	15.84	6.2	21	20	0	79.2	60-160	0			J
Benzene	16.77	0.46	1.5	20	0	83.8	70-130	0			
Bromobenzene	17.73	0.38	1.3	20	0	88.6	80-125	0			
Bromochloromethane	15.95	0.45	1.5	20	0	79.8	72-141	0			
Bromodichloromethane	18.12	0.49	1.6	20	0	90.6	75-125	0			
Bromoform	16.46	0.56	1.9	20	0	82.3	60-125	0			
Bromomethane	15.56	0.9	3.0	20	0	77.8	30-185	0			
Carbon tetrachloride	17.06	0.4	1.4	20	0	85.3	65-140	0			
Chlorobenzene	17.78	0.4	1.3	20	0	88.9	80-120	0			
Chloroethane	12.01	0.68	2.3	20	0	60	31-172	0			
Chloroform	17.41	0.46	1.5	20	0	87	66-135	0			
Chloromethane	13.51	0.83	2.8	20	0	67.6	46-148	0			
cis-1,2-Dichloroethene	16.72	0.42	1.4	20	0	83.6	75-134	0			
cis-1,3-Dichloropropene	15.52	0.57	1.9	20	0	77.6	70-130	0			
Dibromochloromethane	15.15	0.4	1.3	20	0	75.8	60-115	0			
Dibromomethane	18.47	0.65	2.2	20	0	92.4	79-126	0			
Dichlorodifluoromethane	14	0.68	2.3	20	0	70	10-180	0			
Diisopropyl ether	16.51	0.41	1.4	20	0	82.6	58-133	0			
Ethylbenzene	16.69	0.34	1.1	20	0	83.4	76-123	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W	Instrument ID VMS12		Method: SW8260C						
Hexachlorobutadiene	21.52	0.56	1.9	20	0	108	70-155	0	
Isopropylbenzene	17.05	0.35	1.2	20	0	85.2	80-127	0	
m,p-Xylene	35.17	0.81	2.7	40	0	87.9	75-130	0	
Methyl tert-butyl ether	18.07	0.45	1.5	20	0	90.4	68-129	0	
Methylene chloride	17.14	0.86	2.9	20	0	85.7	72-125	0	
Naphthalene	16.86	0.77	2.6	20	0	84.3	55-160	0	
n-Butylbenzene	16.9	0.34	1.1	20	0	84.5	75-145	0	
n-Propylbenzene	17.06	0.48	1.6	20	0	85.3	76-116	0	
o-Xylene	18.17	0.31	1.0	20	0	90.8	76-127	0	
p-Isopropyltoluene	18.55	0.26	0.88	20	0	92.8	61-164	0	
sec-Butylbenzene	18.88	0.3	1.0	20	0	94.4	80-134	0	
Styrene	17.6	0.33	1.1	20	0	88	79-117	0	
tert-Butylbenzene	17.53	0.39	1.3	20	0	87.6	70-130	0	
Tetrachloroethene	16.87	0.39	1.3	20	0	84.4	68-166	0	
Toluene	16.78	0.45	1.5	20	0	83.9	76-125	0	
trans-1,3-Dichloropropene	15.36	0.38	2.7	20	0	76.8	56-132	0	
Trichloroethene	17.18	0.43	1.4	20	0	85.9	77-125	0	
Trichlorofluoromethane	14.75	0.52	1.7	20	0	73.8	60-140	0	
Vinyl chloride	14.48	0.53	1.8	20	0	72.4	50-136	0	
Xylenes, Total	53.34	0.81	4.4	60	0	88.9	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	18.5	0	0	20	0	92.5	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.43	0	0	20	0	102	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.63	0	0	20	0	98.2	85-115	0	
<i>Surr: Toluene-d8</i>	19.18	0	0	20	0	95.9	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W Instrument ID VMS12 Method: SW8260C

MS		Sample ID: 21052005-05A MS				Units: µg/L		Analysis Date: 5/29/2021 03:03 AM			
Client ID:		Run ID: VMS12_210528A			SeqNo: 7441025		Prep Date:		DF: 5		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	95.45	1.9	6.4	100	0	95.4	73-114	0			
1,1,1-Trichloroethane	99.75	2.3	7.6	100	0	99.8	75-130	0			
1,1,2,2-Tetrachloroethane	97.85	2	6.7	100	0	97.8	75-130	0			
1,1,2-Trichloroethane	94.8	2.3	7.7	100	0	94.8	75-125	0			
1,1-Dichloroethane	96.4	2.2	7.4	100	0	96.4	68-142	0			
1,1-Dichloroethene	98.1	2	6.8	100	0	98.1	70-145	0			
1,2,3-Trichlorobenzene	97.65	2.1	7.0	100	0	97.6	70-140	0			
1,2,3-Trichloropropane	97.2	2	6.6	100	0	97.2	75-125	0			
1,2,4-Trichlorobenzene	97.55	2.2	7.6	100	0	97.6	70-135	0			
1,2,4-Trimethylbenzene	102.6	2.2	7.5	100	0	103	75-130	0			
1,2-Dibromo-3-chloropropane	90.15	2.2	7.2	100	0	90.2	60-130	0			
1,2-Dibromoethane	96.45	2	6.8	100	0	96.4	67-155	0			
1,2-Dichlorobenzene	93.25	1.6	5.4	100	0	93.2	70-130	0			
1,2-Dichloroethane	94.75	2.2	7.2	100	0	94.8	78-125	0			
1,2-Dichloropropane	94.1	2.4	8.0	100	0	94.1	75-125	0			
1,3,5-Trimethylbenzene	111.4	3.2	11	100	0	111	75-130	0			
1,3-Dichlorobenzene	93.95	1.6	5.4	100	0	94	75-130	0			
1,3-Dichloropropane	91.7	2	6.6	100	0	91.7	75-125	0			
1,4-Dichlorobenzene	95.35	1.8	5.8	100	0	95.4	75-130	0			
2,2-Dichloropropane	81.1	2.6	8.6	100	0	81.1	43-150	0			
2-Butanone	97.9	2.6	8.6	100	10.1	87.8	55-150	0			
2-Chlorotoluene	U	1.8	6.0	100	0	0	76-117	0			S
4-Chlorotoluene	104.8	1.6	5.1	100	0	105	80-125	0			
4-Methyl-2-pentanone	105.6	2.6	8.6	100	1.95	104	77-178	0			
Acetone	242.8	31	100	100	159.8	83	60-160	0			
Benzene	95	2.3	7.6	100	0	95	70-130	0			
Bromobenzene	98.4	1.9	6.3	100	0	98.4	80-125	0			
Bromochloromethane	87.35	2.2	7.4	100	0	87.4	72-141	0			
Bromodichloromethane	95.2	2.4	8.2	100	0	95.2	75-125	0			
Bromoform	84.1	2.8	9.4	100	0	84.1	60-125	0			
Bromomethane	44.95	4.5	15	100	3.1	41.8	30-185	0			
Carbon tetrachloride	96.3	2	6.8	100	0	96.3	65-140	0			
Chlorobenzene	98.75	2	6.7	100	0	98.8	80-120	0			
Chloroethane	87.25	3.4	11	100	0	87.2	31-172	0			
Chloroform	101.8	2.3	7.6	100	0	102	66-135	0			
Chloromethane	78.4	4.2	14	100	2.65	75.8	46-148	0			
cis-1,2-Dichloroethene	95.45	2.1	6.9	100	0	95.4	75-134	0			
cis-1,3-Dichloropropene	78.85	2.8	9.6	100	0	78.8	70-130	0			
Dibromochloromethane	73.65	2	6.6	100	0	73.6	60-115	0			
Dibromomethane	100.6	3.2	11	100	0	101	79-126	0			
Dichlorodifluoromethane	95.8	3.4	11	100	0	95.8	10-180	0			
Diisopropyl ether	91.05	2	6.8	100	0	91	58-133	0			
Ethylbenzene	97.6	1.7	5.6	100	0	97.6	76-123	0			

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

Client: Gannett Fleming, Inc.
Work Order: 21051818
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W	Instrument ID VMS12			Method: SW8260C					
Hexachlorobutadiene	149.5	2.8	9.4	100	0	150	70-155	0	
Isopropylbenzene	100.2	1.8	5.8	100	0	100	80-127	0	
m,p-Xylene	204.2	4	14	200	0	102	75-130	0	
Methyl tert-butyl ether	94.9	2.2	7.6	100	0	94.9	68-129	0	
Methylene chloride	91.6	4.3	14	100	0	91.6	72-125	0	
Naphthalene	98	3.8	13	100	0	98	55-160	0	
n-Butylbenzene	92.1	1.7	5.6	100	0	92.1	75-145	0	
n-Propylbenzene	96.65	2.4	8.0	100	0	96.6	76-116	0	
o-Xylene	101.7	1.6	5.2	100	0	102	76-127	0	
p-Isopropyltoluene	99.25	1.3	4.4	100	0	99.2	61-164	0	
sec-Butylbenzene	110.6	1.5	5.0	100	0	111	80-134	0	
Styrene	87.15	1.6	5.6	100	0	87.2	79-117	0	
tert-Butylbenzene	103	2	6.6	100	0	103	70-130	0	
Tetrachloroethene	103.2	2	6.6	100	0	103	68-166	0	
Toluene	95.9	2.2	7.6	100	0	95.9	76-125	0	
trans-1,3-Dichloropropene	73.55	1.9	14	100	0	73.6	56-132	0	
Trichloroethene	103.4	2.2	7.2	100	0	103	77-125	0	
Trichlorofluoromethane	92.1	2.6	8.6	100	0	92.1	60-140	0	
Vinyl chloride	92.15	2.6	8.8	100	0	92.2	50-136	0	
Xylenes, Total	305.8	4	22	300	0	102	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	94.95	0	0	100	0	95	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	103.8	0	0	100	0	104	80-110	0	
<i>Surr: Dibromofluoromethane</i>	98.25	0	0	100	0	98.2	85-115	0	
<i>Surr: Toluene-d8</i>	96.3	0	0	100	0	96.3	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W Instrument ID VMS12 Method: SW8260C

MSD		Sample ID: 21052005-05A MSD				Units: µg/L		Analysis Date: 5/29/2021 03:27 AM			
Client ID:		Run ID: VMS12_210528A		SeqNo: 7441026		Prep Date:		DF: 5			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	97.95	1.9	6.4	100	0	98	73-114	95.45	2.59	30	
1,1,1-Trichloroethane	102	2.3	7.6	100	0	102	75-130	99.75	2.18	30	
1,1,2,2-Tetrachloroethane	101.1	2	6.7	100	0	101	75-130	97.85	3.27	30	
1,1,2-Trichloroethane	97	2.3	7.7	100	0	97	75-125	94.8	2.29	30	
1,1-Dichloroethane	95.85	2.2	7.4	100	0	95.8	68-142	96.4	0.572	30	
1,1-Dichloroethene	99.35	2	6.8	100	0	99.4	70-145	98.1	1.27	30	
1,2,3-Trichlorobenzene	100.4	2.1	7.0	100	0	100	70-140	97.65	2.73	30	
1,2,3-Trichloropropane	99.5	2	6.6	100	0	99.5	75-125	97.2	2.34	30	
1,2,4-Trichlorobenzene	98.3	2.2	7.6	100	0	98.3	70-135	97.55	0.766	30	
1,2,4-Trimethylbenzene	102	2.2	7.5	100	0	102	75-130	102.6	0.489	30	
1,2-Dibromo-3-chloropropane	91.25	2.2	7.2	100	0	91.2	60-130	90.15	1.21	30	
1,2-Dibromoethane	99.85	2	6.8	100	0	99.8	67-155	96.45	3.46	30	
1,2-Dichlorobenzene	98.25	1.6	5.4	100	0	98.2	70-130	93.25	5.22	30	
1,2-Dichloroethane	95.25	2.2	7.2	100	0	95.2	78-125	94.75	0.526	30	
1,2-Dichloropropane	95.75	2.4	8.0	100	0	95.8	75-125	94.1	1.74	30	
1,3,5-Trimethylbenzene	109.8	3.2	11	100	0	110	75-130	111.4	1.45	30	
1,3-Dichlorobenzene	100	1.6	5.4	100	0	100	75-130	93.95	6.29	30	
1,3-Dichloropropane	94.9	2	6.6	100	0	94.9	75-125	91.7	3.43	30	
1,4-Dichlorobenzene	98.85	1.8	5.8	100	0	98.8	75-130	95.35	3.6	30	
2,2-Dichloropropane	82.7	2.6	8.6	100	0	82.7	43-150	81.1	1.95	30	
2-Butanone	98.3	2.6	8.6	100	10.1	88.2	55-150	97.9	0.408	30	
2-Chlorotoluene	U	1.8	6.0	100	0	0	76-117	0	0	30	S
4-Chlorotoluene	103.6	1.6	5.1	100	0	104	80-125	104.8	1.15	30	
4-Methyl-2-pentanone	108.6	2.6	8.6	100	1.95	107	77-178	105.6	2.76	30	
Acetone	270.4	31	100	100	159.8	111	60-160	242.8	10.8	30	
Benzene	98.8	2.3	7.6	100	0	98.8	70-130	95	3.92	30	
Bromobenzene	101.2	1.9	6.3	100	0	101	80-125	98.4	2.76	30	
Bromochloromethane	91.65	2.2	7.4	100	0	91.6	72-141	87.35	4.8	30	
Bromodichloromethane	97.9	2.4	8.2	100	0	97.9	75-125	95.2	2.8	30	
Bromoform	87.1	2.8	9.4	100	0	87.1	60-125	84.1	3.5	30	
Bromomethane	66.8	4.5	15	100	3.1	63.7	30-185	44.95	39.1	30	R
Carbon tetrachloride	99.15	2	6.8	100	0	99.2	65-140	96.3	2.92	30	
Chlorobenzene	101.6	2	6.7	100	0	102	80-120	98.75	2.85	30	
Chloroethane	80.9	3.4	11	100	0	80.9	31-172	87.25	7.55	30	
Chloroform	103.3	2.3	7.6	100	0	103	66-135	101.8	1.41	30	
Chloromethane	87.75	4.2	14	100	2.65	85.1	46-148	78.4	11.3	30	
cis-1,2-Dichloroethene	91.95	2.1	6.9	100	0	92	75-134	95.45	3.74	30	
cis-1,3-Dichloropropene	82	2.8	9.6	100	0	82	70-130	78.85	3.92	30	
Dibromochloromethane	76.9	2	6.6	100	0	76.9	60-115	73.65	4.32	30	
Dibromomethane	103	3.2	11	100	0	103	79-126	100.6	2.36	30	
Dichlorodifluoromethane	98.45	3.4	11	100	0	98.4	10-180	95.8	2.73	30	
Diisopropyl ether	92.45	2	6.8	100	0	92.4	58-133	91.05	1.53	30	
Ethylbenzene	97.2	1.7	5.6	100	0	97.2	76-123	97.6	0.411	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 21051818
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R318603W	Instrument ID VMS12			Method: SW8260C						
Hexachlorobutadiene	146.1	2.8	9.4	100	0	146	70-155	149.5	2.3	30
Isopropylbenzene	98.35	1.8	5.8	100	0	98.4	80-127	100.2	1.86	30
m,p-Xylene	200.4	4	14	200	0	100	75-130	204.2	1.85	30
Methyl tert-butyl ether	99	2.2	7.6	100	0	99	68-129	94.9	4.23	30
Methylene chloride	91.5	4.3	14	100	0	91.5	72-125	91.6	0.109	30
Naphthalene	102.4	3.8	13	100	0	102	55-160	98	4.39	30
n-Butylbenzene	90.85	1.7	5.6	100	0	90.8	75-145	92.1	1.37	30
n-Propylbenzene	95.8	2.4	8.0	100	0	95.8	76-116	96.65	0.883	30
o-Xylene	102.7	1.6	5.2	100	0	103	76-127	101.7	0.978	30
p-Isopropyltoluene	101.1	1.3	4.4	100	0	101	61-164	99.25	1.85	30
sec-Butylbenzene	108.8	1.5	5.0	100	0	109	80-134	110.6	1.69	30
Styrene	87	1.6	5.6	100	0	87	79-117	87.15	0.172	30
tert-Butylbenzene	100.7	2	6.6	100	0	101	70-130	103	2.26	30
Tetrachloroethene	102.2	2	6.6	100	0	102	68-166	103.2	0.876	30
Toluene	94.85	2.2	7.6	100	0	94.8	76-125	95.9	1.1	30
trans-1,3-Dichloropropene	77.05	1.9	14	100	0	77	56-132	73.55	4.65	30
Trichloroethene	106.3	2.2	7.2	100	0	106	77-125	103.4	2.81	30
Trichlorofluoromethane	91.95	2.6	8.6	100	0	92	60-140	92.1	0.163	30
Vinyl chloride	94.4	2.6	8.8	100	0	94.4	50-136	92.15	2.41	30
Xylenes, Total	303.1	4	22	300	0	101	76-127	305.8	0.903	30
<i>Surr: 1,2-Dichloroethane-d4</i>	94.1	0	0	100	0	94.1	75-120	94.95	0.899	30
<i>Surr: 4-Bromofluorobenzene</i>	101	0	0	100	0	101	80-110	103.8	2.78	30
<i>Surr: Dibromofluoromethane</i>	101.8	0	0	100	0	102	85-115	98.25	3.55	30
<i>Surr: Toluene-d8</i>	94.95	0	0	100	0	95	85-110	96.3	1.41	30

The following samples were analyzed in this batch:

21051818-10A	21051818-11A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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COC ID: 230819

ALS Project Manager: *EB*

ALS Work Order #: 21051818

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	<i>55929.005</i>	Project Name	<i>WRR</i>	A	<i>VOC's</i>										
Work Order		Project Number	<i>55929.005</i>	B											
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C											
Send Report To	<i>Tony Miller</i>	Invoice Attn	Accounts Payable	D											
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E											
	Suite 303		Suite 303	F											
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G											
Phone	(608) 336 1500 <i>327-5050</i>	Phone	(608) 336 1500 <i>327-5050</i>	H											
Fax		Fax		I											
e-Mail Address	<i>awmiller@gfnet.com</i>	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold				
1	<i>MW-113</i>	<i>5/18/21</i>	<i>0855</i>	<i>CW</i>	<i>HCl</i>	<i>3</i>	<i>X</i>														
2	<i>-113A</i>	<i>113</i>	<i>0905</i>	<i>CW</i>	<i>HCl</i>	<i>3</i>	<i>X</i>														
3	<i>-113B</i>		<i>0920</i>																		
4	<i>-112</i>		<i>0945</i>																		
5	<i>-112A</i>		<i>0955</i>																		
6	<i>-112B</i>		<i>1005</i>																		
7	<i>-30A</i>		<i>1020</i>																		
8	<i>-30A Dup</i>		<i>"</i>																		
9	<i>-30B</i>		<i>1030</i>																		
10	<i>-115</i>		<i>1050</i>															<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>

Sampler(s) Please Print & Sign <i>Cliff Wright CW</i>		Shipment Method		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:				
Relinquished by: <i>Cliff Wright</i>	Date: <i>5/18/21</i>	Time: <i>14:15</i>	Received by: <i>Fede</i>		Notes:							
Relinquished by: <i>Fede</i>	Date: <i>5/20/21</i>	Time: <i>1430</i>	Received by (Laboratory): <i>[Signature]</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <i>Kru</i>	Date: <i>5/20/21</i>	Time: <i>1610</i>	Checked by (Laboratory): <i>EB</i>		<i>123</i>	<i>1.9°C</i>	<input type="checkbox"/> Level II Std GC	<input type="checkbox"/> TRRP CheckList				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std GC/Raw Data	<input type="checkbox"/> TRRP Level IV				
							<input checked="" type="checkbox"/> Level IV SW846/GLP					
							<input type="checkbox"/> Other					



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Page 2 of 2

COC ID: 230817

ALS Project Manager: EB

ALS Work Order #: 21051818

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	<u>55929.005</u>	Project Name	<u>WRR</u>	A	<u>VOCs</u>										
Work Order		Project Number	<u>55929.005</u>	B											
Company Name	Gannett Fleming, Inc.	Bill To Company	Gannett Fleming, Inc.	C											
Send Report To		Invoice Attn	Accounts Payable	D											
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E											
	Suite 303		Suite 303	F											
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G											
Phone	(608) 838-1500	Phone	(608) 838-1500	H											
Fax		Fax		I											
e-Mail Address	<u>See Page 1</u>	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-115A	5/18/21	1100	GW	HCl	3											
2	MW-115B	↓	1110	I	↓	↓											
3	DW-1	↓	1135	DW	↓	↓											
4	TRIP BLANK																
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <u>Cliff Wright CEO</u>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <u>Cliff Wright</u>	Date: <u>5/18/21</u>	Time: <u>1415</u>	Received by: <u>FroEx</u>	Notes:							
Relinquished by: <u>FroEx</u>	Date: <u>5/20/21</u>	Time: <u>1430</u>	Received by (Laboratory): <u>[Signature]</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <u>KEJ</u>	Date: <u>5/20/21</u>	Time: <u>1610</u>	Checked by (Laboratory): <u>[Signature]</u>			<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input checked="" type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV				
						<input checked="" type="checkbox"/> Level IV SW846/CLP					
						<input type="checkbox"/> 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.

Sample Receipt Checklist

Client Name: **GANNETFLEMING - WI**

Date/Time Received: **20-May-21 14:30**

Work Order: **21051818**

Received by: **KRW**

Checklist completed by Keith Wierenga 20-May-21
eSignature Date

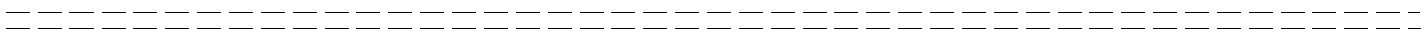
Reviewed by: Eheland Beaworth 21-May-21
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4/4.4 C</u>		<u>IR3</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>5/20/2021 4:05:50 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u> </u>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:

Landfill Name: 55929.005 WRR

License Number: 04234 Report

Period: 210601

ALS Laboratory Group

DNR Exceedance Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
05/18/21	393	99358	31	ug/L	ES		21051818-10	MW-115	01	1,2-Dichloroethane	0.5	5
05/18/21	393	99001	11	ug/L	ES		21051818-10	MW-115	01	Benzene	0.5	5
05/18/21	393	34311	1000	ug/L	ES		21051818-10	MW-115	01	Chloroethane	80	400
05/18/21	393	34423	J 4.4	ug/L	PAL		21051818-10	MW-115	01	Methylene chloride	0.5	5
05/18/21	396	34511	23	ug/L	ES		21051818-11	MW-115A	01	1,1,2-Trichloroethane	0.5	5
05/18/21	396	34496	410	ug/L	PAL		21051818-11	MW-115A	01	1,1-Dichloroethane	85	850
05/18/21	396	34501	180	ug/L	ES		21051818-11	MW-115A	01	1,1-Dichloroethene	0.7	7
05/18/21	396	99358	12	ug/L	ES		21051818-11	MW-115A	01	1,2-Dichloroethane	0.5	5
05/18/21	396	99360	19	ug/L	ES		21051818-11	MW-115A	01	1,2-Dichloropropane	0.5	5
05/18/21	396	77093	1700	ug/L	ES		21051818-11	MW-115A	01	cis-1,2-Dichloroethene	7	70
05/18/21	396	34423	J 4.4	ug/L	PAL		21051818-11	MW-115A	01	Methylene chloride	0.5	5
05/18/21	396	34475	J 2.0	ug/L	PAL		21051818-11	MW-115A	01	Tetrachloroethene	0.5	5
05/18/21	396	34546	32	ug/L	PAL		21051818-11	MW-115A	01	trans-1,2-Dichloroethene	20	100
05/18/21	396	39180	83	ug/L	ES		21051818-11	MW-115A	01	Trichloroethene	0.5	5
05/18/21	399	39180	J 0.79	ug/L	PAL		21051818-12	MW-115B	01	Trichloroethene	0.5	5

Tuesday, June 01, 2021

Page 1 of 1

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-Enforcement Standard Within DMZ; ACL-Alternative Concentration Limit

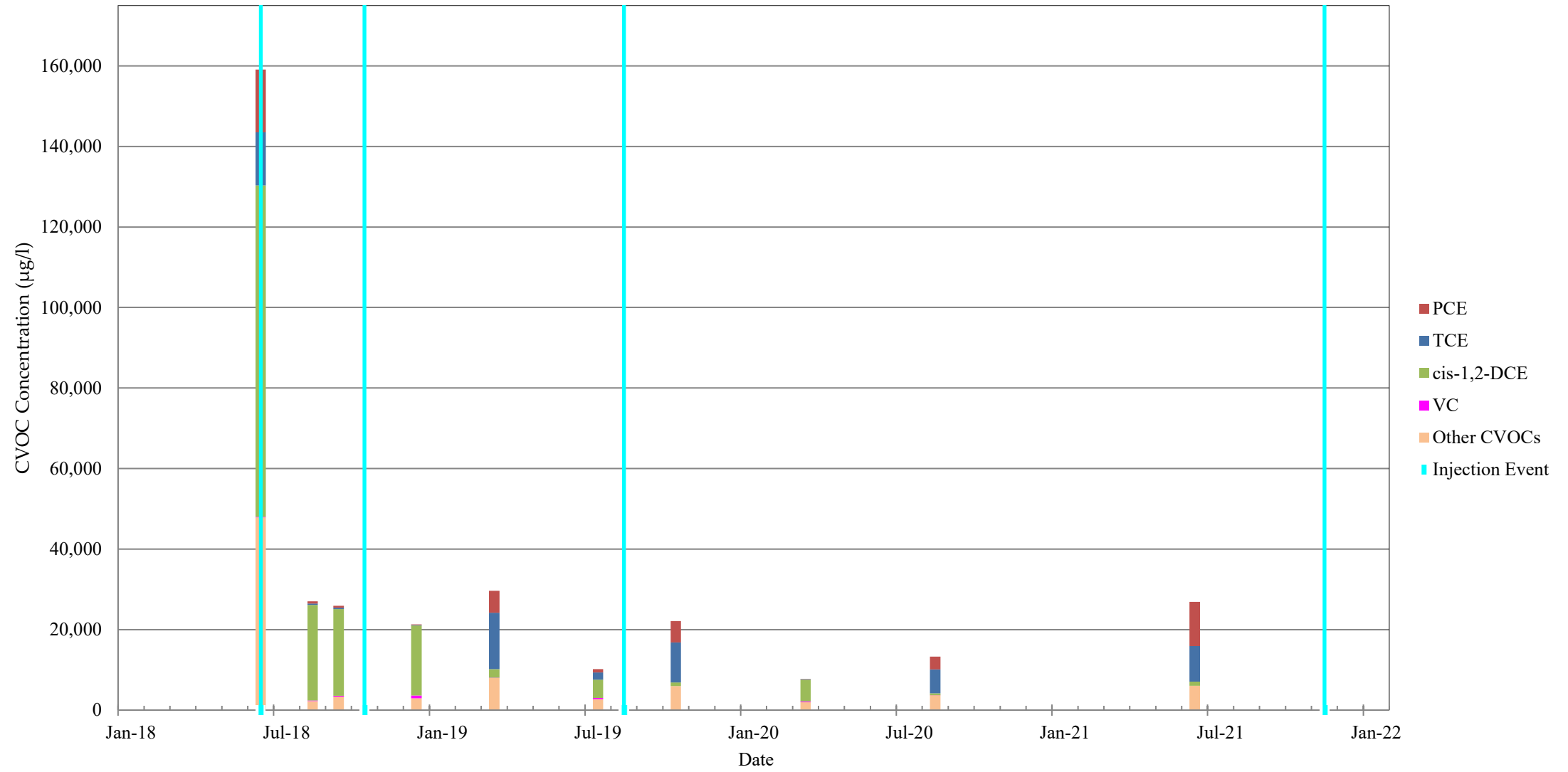
MSI: 01-Sample; 02-Sample Duplicate; 03-Sample Triplicate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL

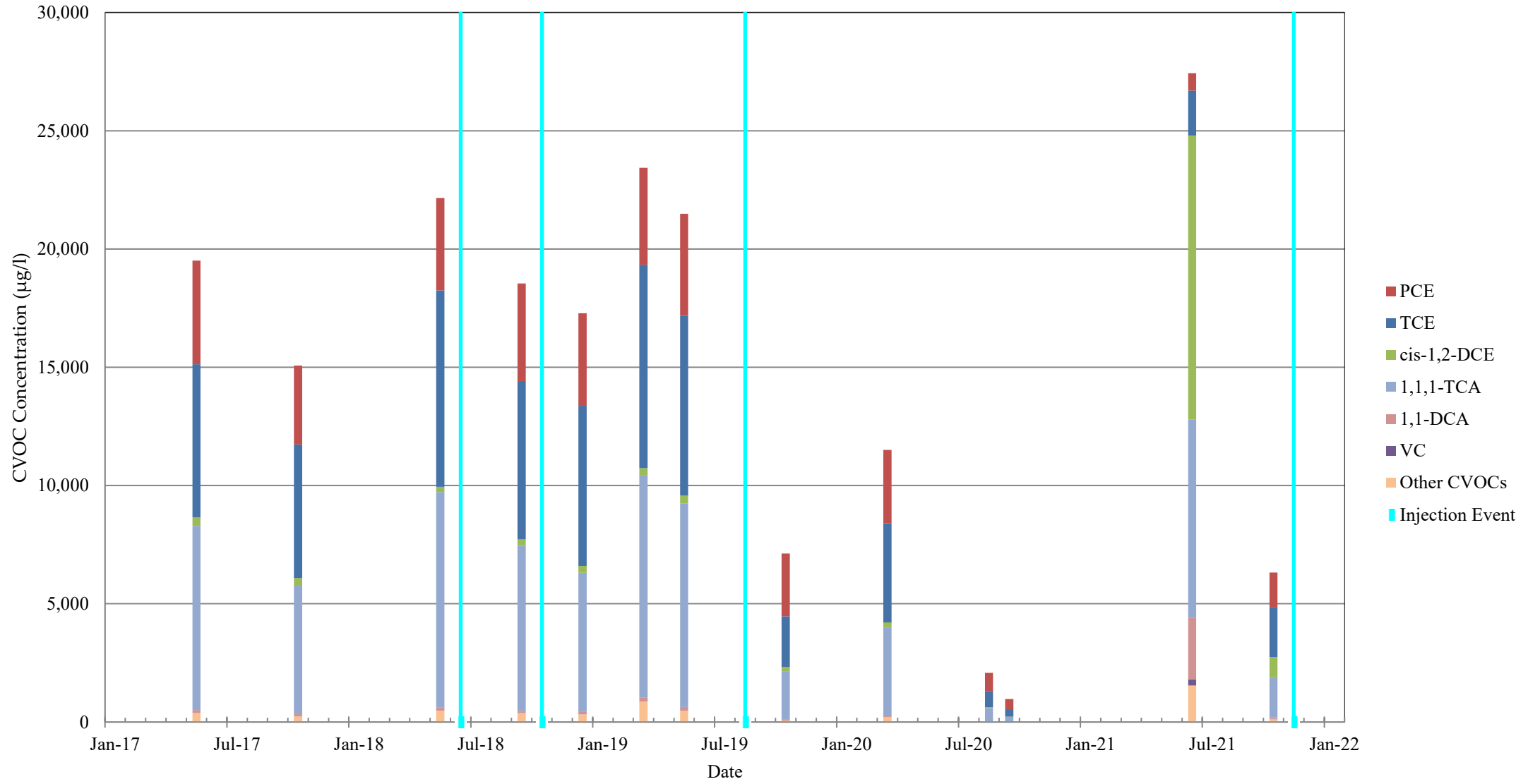
APPENDIX D-4

CHARTS SHOWING CVOC CONCENTRATIONS VS TIME IN WELLS
W-32 THROUGH W-35 & SVE-4

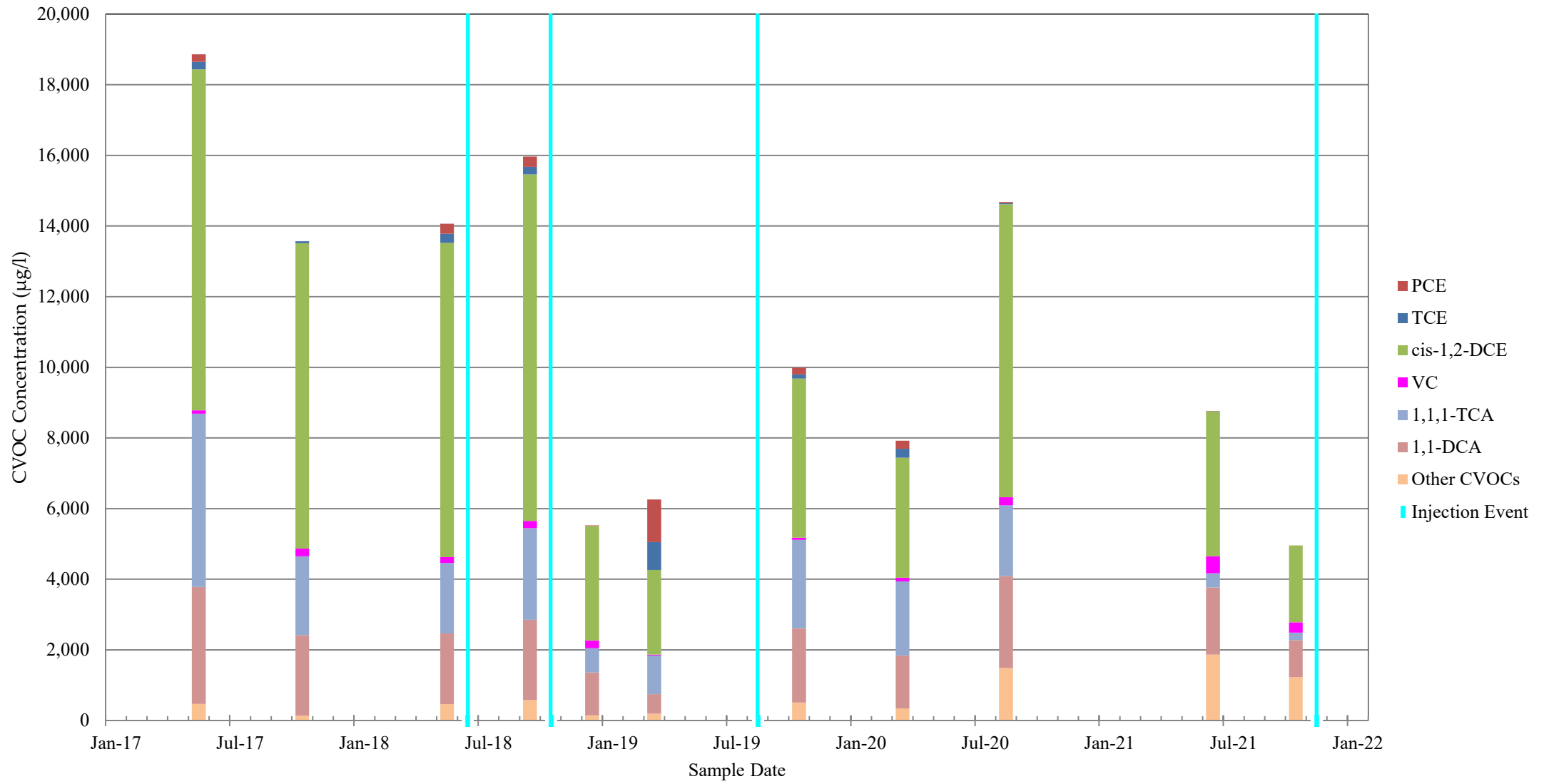
WRR ENVIRONMENTAL SERVICES CO., INC.
DETECTED CVOC CONCENTRATIONS IN GROUNDWATER FROM SVE-4



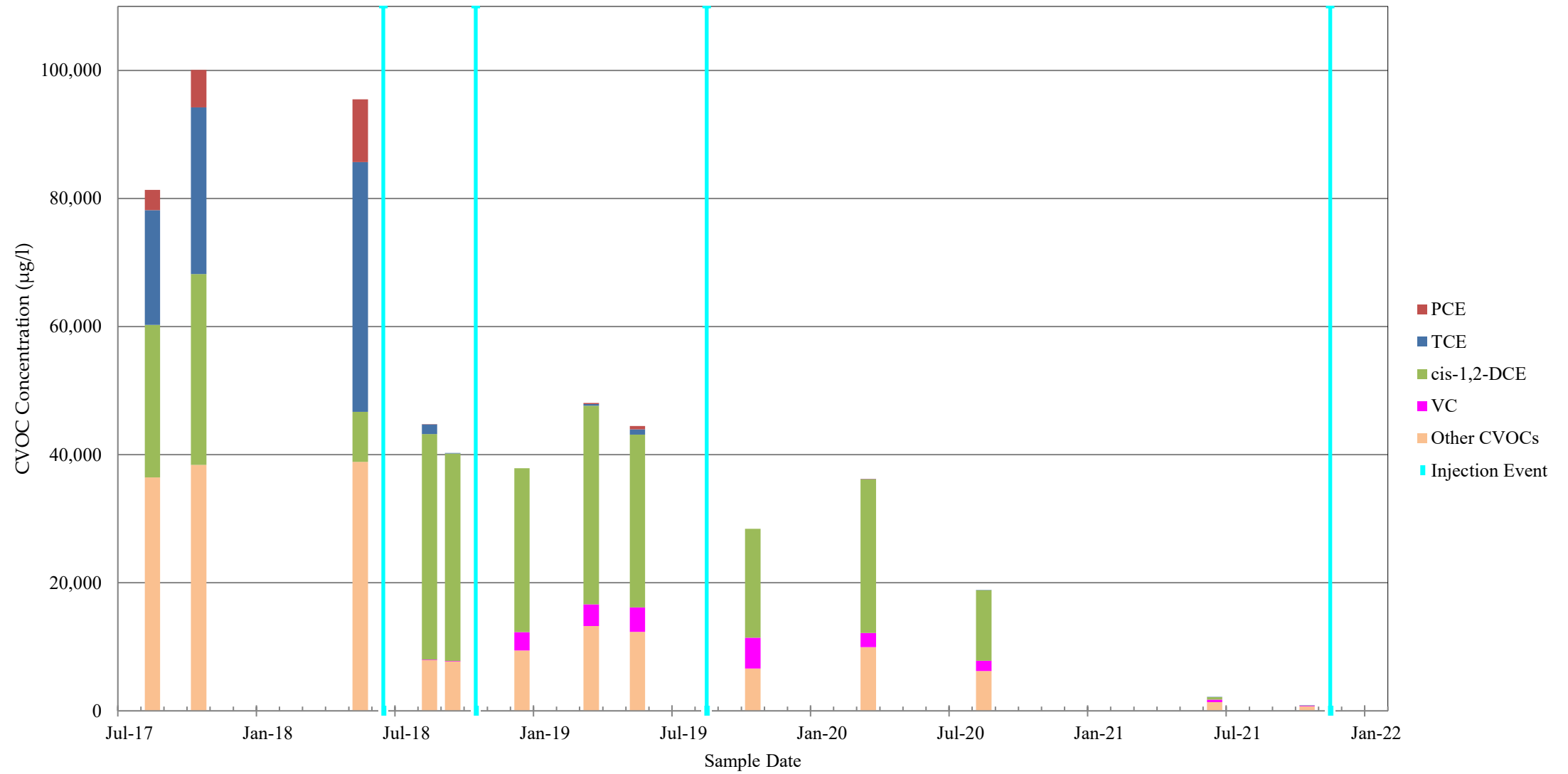
WRR ENVIRONMENTAL SERVICES CO., INC.
DETECTED CVOC CONCENTRATIONS IN MONITORING WELL W-32



WRR ENVIRONMENTAL SERVICES CO., INC.
CHLORINATED VOC CONCENTRATIONS IN MONITORING WELL W-33



WRR ENVIRONMENTAL SERVICES CO., INC.
CHLORINATED VOC CONCENTRATIONS IN MONITORING WELL W-34



WRR ENVIRONMENTAL SERVICES CO., INC.
CHLORINATED VOC CONCENTRATIONS IN MONITORING WELL W-35

