

March 27, 2023

John Sager
Wisconsin Department of Natural Resources
1701 North 4th Street
Superior, WI 54880

Re: Facility-Wide Groundwater Monitoring Report for 2022
Superior Refining Company LLC, Superior, WI
WDNR BRRTS# 16-16-559511
Facility ID 816009590

Dear John:

On behalf of Superior Refining Company LLC (SRC), Barr Engineering Co. (Barr) is submitting this facility-wide Environmental Response Program (ERP) remediation progress report for the SRC refinery in Superior, Wisconsin. Periodic site progress reporting to the Wisconsin Department of Natural Resources (WDNR) is required pursuant to ss. NR 700.11(1) and 724.13(3), Wisconsin Administrative Code. This report summarizes monitoring activities conducted at the site in 2022.

1 Facility and Site Background Information

Figure 1 shows the location and approximate boundary of the facility-wide ERP site and the area surrounding the refinery. Figure 2 presents the site layout of the refinery which occupies portions of Sections 25, 26, 30, and 36; Township 49 North; Range 14 West; in Superior Township of Douglas County, Wisconsin. Figure 2 also shows the locations of the 22 monitoring wells and eight piezometers currently part of the semiannual monitoring network. Table 1 provides a summary of monitoring wells and piezometers in the facility-wide ERP groundwater monitoring array.

Topography at the refinery slopes gently to the east. Surface elevations range from approximately 650 to 660 feet above mean sea level (MSL). The closest natural surface water body is Newton Creek, located approximately 850 feet east of the refinery's closest aboveground storage tank (AST) (Figure 1). The creek flows for approximately 1.5 miles to Hog Island Inlet, which connects to Lake Superior Bay. Storm water retention and fire water ponds, along with two artificial wetlands for wastewater treatment plant discharge polishing, are located just northwest of the Newton Creek headwaters, near the intersection of Stinson/24th Avenue and Bardon Avenue.

Other than the process areas, which are generally paved, most of the refinery property is unpaved. The depth to groundwater in the network monitoring wells ranges from less than 1 foot to greater than 6 feet below ground surface (bgs) depending on time of year and topography. The regional groundwater flow direction is to the east (Figure 2).

As presented in the April 2014 Gannett Fleming, Inc. (GF) *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan (SI/RAP)* (GF, 2014), red-brown native lean clay till is present beneath the site, is relatively homogenous, and extends to approximately 100 feet bgs beneath the site. The hydraulic conductivity of the native clay underlying the refinery is on the order of 1×10^{-7} centimeters per second (cm/sec) (GF, 2014). Assuming a horizontal hydraulic gradient of 0.003 feet per foot (ft/ft) eastward and an effective porosity of 0.06, the estimated horizontal groundwater flow velocity at the refinery is approximately 0.01 foot per year (ft/yr) (GF, 2014).

In October 2011, Calumet Superior LLC (Calumet) acquired the refinery from Murphy Oil. In May 2014, the WDNR approved Calumet's April 2014 SI/RAP for the refinery (GF, 2014). In November 2017, Husky Superior Refining Holding Corp. (Husky Superior) purchased Calumet and changed its legal name to Superior Refining Company LLC. On April 4, 2018, the April 2014 SI/RAP became a component of the March 2018 Negotiated Agreement between SRC and the WDNR (WDNR/SRC, 2018). In January 2021, Husky and Cenovus Energy Inc. (Cenovus) merged to become Cenovus; however, the legal name of the refinery remains unchanged, and the Negotiated Agreement remains in effect.

In conjunction with the SI/RAP, an original network of 23 wells and eight piezometers was established for monitoring overall groundwater quality. Starting in 2015, all wells and piezometers in the network were gauged twice per year (to check for free product, track seasonal changes in water levels, and prepare groundwater contour map); 18 of the monitoring wells and the eight piezometers are purged and sampled; and the remaining five wells are gauged only. In 2022 the network of 23 wells was reduced to 22 wells as monitoring well MW-3/T50 was sealed; details are discussed below in Section 2.3. Monitoring MW-3/T50 was used for gauging purposes only. As summarized in Table 1, the sampled wells (18) and piezometers (8) are referred to as "perimeter" wells and the 4 monitoring wells that are gauged but not sampled are referred to as "other" wells. Also listed on Table 1 is a separate subset of 5 perimeter wells that are sampled once per year as part of the WDNR Groundwater and Environmental Monitoring System (GEMS) program, also referred to as "pond" wells.

Currently, long-term groundwater monitoring of the facility-wide monitoring network is being conducted twice a year in accordance with the Negotiated Agreement. This report presents monitoring data for 2022.

2 Monitoring Activities in 2022

Year-round access to the network of monitoring wells and piezometers at the refinery is not practical because of relatively shallow groundwater, cold weather, and snow. When conditions allow access, the monitoring wells and piezometers are gauged and the perimeter wells/piezometers are purged and sampled in the spring and fall (typically April/May and September/October). Since gauging began in 2016, no measurable free product has been observed in the wells and piezometers in the network. Monitoring and gauging activities conducted in 2022 are summarized in Table 2.

2.1 Groundwater Gauging

Groundwater samples were collected by Barr and Insight Environmental (Insight) field staff at the site during May and October 2022. Insight purged the perimeter wells/piezometers twice and allowed them to

recover for at least 14 days between purge events and prior to sample collection which was conducted on May 24-25 and October 12-13, 2022. Table 2 includes fluid level monitoring data for April through October 2022. No measurable free product was observed in the monitoring wells or piezometers.

The depth to groundwater in the monitoring wells ranged from 2.23 to 19.83 feet bgs. Each of the calculated vertical gradients were negative/downward and ranged from 0.04 to 0.50. Water level elevation data are presented in Table 2; negative vertical gradients are shown in parenthesis in red.

The measured groundwater elevations data indicates the direction of shallow groundwater flow is to the east (Figure 2), which is consistent with previously determined groundwater flow directions. Likewise, the average calculated horizontal hydraulic gradient of 0.004 ft/ft is consistent with those calculated in previous years.

2.2 Groundwater Sampling and Results

Groundwater samples were collected by Barr and Insight field staff at the site during May and October 2022. The perimeter wells/piezometers were purged using the modified purge method approved by the WDNR in 2015. Perimeter wells/piezometers are purged twice and allowed to recover for at least 14 days between purge events and prior to the collection of the samples. Field staff used a new one-time-use polyethylene disposable bailer with new nylon rope to collect each groundwater sample. The May 2022 and Fall 2022 groundwater samples were sent to Pace Analytical (Pace) in Minnesota, Minneapolis (Wisconsin laboratory certification #999407970); samples were analyzed for petroleum volatile organic compounds (PVOCs) and naphthalene using EPA Method 8260B. In addition, groundwater samples collected in October 2022 from the five GEMS (pond) wells (MW-1, MW-2, MW-3D, MW-8R, and MW-9B) were analyzed for VOCs (and select inorganics for the GEMS program, as described above).

Table 3 presents analytical results of the groundwater samples compared to the NR 140 Preventative Action Limits (PALs) and Enforcement Standards (ESs). Included in Table 3 are the results for PVOCs and naphthalene only; complete VOC and inorganic compound results for the five GEMS (pond) wells are submitted to the WDNR GEMS program staff in a separate report and included here in the attached laboratory report. As shown in Table 3, PVOC and naphthalene concentrations were all below their respective PALs in the groundwater samples collected in May and October 2022. In October 2022, the benzene concentration in monitoring well MW-1 was reported between the laboratory's detection and quantitation limits and flagged as certain quality control criteria was not met.

Attachment A provides copies of the laboratory reports and chain of custody records for the groundwater samples collected in 2022.

2.3 Monitoring Well Maintenance Activities

As previously reported (Barr, 2022), the 4-inch-diameter steel pipe that serves as a protective cover for MW-7 (constructed of 2-inch-diameter, Schedule 40 PVC) was bent during response activities associated with the April 2018 Incident. As a precautionary measure, SRC abandoned the well on September 1, 2022 and installed MW-7R as a replacement on October 27, 2022. The well abandonment form and well

construction log are included in Attachment B. Monitoring well MW-7R was surveyed on November 4, 2022; well survey information has been updated on Table 4. Due to the slow recharge of groundwater at the site the well will be developed in Spring 2023.

In 2021 the riser of PVC monitoring well MW-3/T50 was damaged. The PVC riser was broken off at the ground surface and no damage to the subsurface well riser occurred. On October 6, 2021, a PVC coupler was used to re-attach the riser. In 2022 the riser of the monitoring well was again damaged, and the monitoring well was sealed on September 1, 2022. The well abandonment form is included in Attachment B. Monitoring well MW-3/T50 was identified as an "other" well and only used for water level gauging from 2015 to 2020. Since this well was not used for sampling, and groundwater flow is well established for the facility, this well was not replaced.

A planned modifications to the Tank 26 berm and access road required monitoring well MW-19 to be moved. The well was sealed on September 1, 2022, and a replacement monitoring well MW-19R was installed approximately 120 feet to the southwest on October 28, 2022 (Figure 2). The well abandonment form and well construction log are included in Attachment B. Monitoring well MW-19R was surveyed on November 4, 2022 (Table 4). Due to the slow recharge of groundwater at the site the well will be developed in Spring 2023.

3 Future Work

SRC's work plan for 2023 is as follows:

- Develop monitoring well MW-7R and MW-19R prior to gauging and sampling in Spring 2023. Development forms will be completed submitted with the 2023 annual report.
- Continue to gauge fluid levels in the network monitoring wells and piezometers, and purge and sample all the perimeter wells/piezometers twice per year (April/May and September/October).
- Continue to submit groundwater samples for the following laboratory analysis:
 - PVOcs/naphthalene using EPA Method 8260 on a routine basis.
 - VOCs using EPA Method 8260B and select inorganics using EPA Method 6010 and Standard Method 2320B when monitoring the five GEMS (pond) wells once per year.
- Report the results of the groundwater gauging and sample analyses in a groundwater monitoring report to the WDNR by the end of the first quarter of 2024.

If you have any questions or need additional information, please reach out to Joseph Pearson at SRC (joseph.pearson@cenovus.com) or me (lcarney@barr.com).

Sincerely,



Lynette M. Carney
Project Manager

cc: Joseph Pearson (SRC)

Tables

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Figure 1	Site Location
Figure 2	Groundwater Contour Map, April 2022

Attachments


Attachment A	Pace Analytical Laboratory Reports
Attachment B	Monitoring Well Construction and Abandonment Forms

References

- Barr Engineering Co., 2022. Facility-Wide Groundwater Monitoring Report for 2021, Superior Refining Company LLC, Superior, WI, WDNR BRRTS# 16-16-559511, Facility ID 816009590. January 4, 2022.
- Gannett Fleming, Inc. (GF), 2014. Final Memorandum of Agreement, Site Investigation and Remedial Action Plan, Calumet Superior LLC Refinery, Superior, WI, WDNR BRRTS# 02-16-559511. April 30, 2014.
- GF, 2019. Facility-Wide ERP Groundwater Monitoring Report for 2019, Superior Refining Company LLC, Superior, WI, WDNR BRRTS# 16-16-559511 and Facility ID: 816009590. November 18, 2019.
- Wisconsin Department of Natural Resources (WDNR) and Superior Refining Company LLC (SRC), 2018. Negotiated Agreement between SRC and WDNR with respect to a process for responding to petroleum hazardous substance discharges at SRC's Wisconsin facilities including both SRC's "South Tank Farm" property and the Superior refinery property [paraphrased for brevity]. March 15, 2018.

CERTIFICATION

I, Lynette M. Carney, 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 Chapters NR 700 to 726, Wis. Adm. Code.



Lynette M. Carney, PG
Reg #: 1138

March 27, 2023

Date

Tables

Table 1
ERP Well Location, Designation, and Monitoring Parameter Summary
Superior Refining Company LLC
Superior, Wisconsin

Well Network		Well / Piezometer Location	Well / Piezometer Designation(s)			Monitoring Parameters		
Monitoring Well No.	Co-located Piezometer No.		Perimeter	Pond/GEMS	Other	Water Level (Spring and Autumn)	PVOC/Naphthalene (Spring and Autumn) (ERP)	VOCs (Autumn) (GEMS)
MW-1		NE corner of refinery	X	X		X	X	X
MW-1/T67		Tank 67 basin			X	X		
MW-2		NE corner of refinery	X	X		X	X	X
MW-2/T66	PZ-2/T66	SE of Tank 65 basin	X ¹		X ²	X		
MW-3D	PZ-3D	NE corner of refinery	X	X		X	X	X
MW-3/T50 ³		Tank 50 basin						
MW-5/T40		Tank 40 basin			X	X		
MW-5/T70		Tank 70 basin			X	X		
MW-7R		Central area of refinery	X			X	X	
MW-8R	PZ-8R	Tanks 106/112/114; SW corner of refinery	X	X		X	X	X
MW-9B		NW of Wastewater Treatment Plant	X	X		X	X	X
MW-11	PZ-11	Near intersection of Stinson & Bardon Av	X			X	X	
MW-12		South-central property boundary	X			X	X	
MW-13	PZ-13	South-central property boundary	X			X	X	
MW-14		South-central property boundary	X			X	X	
MW-15		North of refinery	X			X	X	
MW-16	PZ-16	NE corner of refinery	X			X	X	
MW-17	PZ-17	SE of Wastewater Treatment Plant	X			X	X	
MW-18		Near intersection of Stinson & Bardon Av	X			X	X	
MW-19R		South tank farm	X			X	X	
MW-20		South tank farm	X			X	X	
MW-21	PZ-21	South tank farm	X			X	X	
MW-22		South tank farm	X			X	X	

NOTES:

ERP = WDNR Environmental Repair Program

GEMS = WDNR Groundwater and Environmental Monitoring System

Other = wells that are routinely gauged but are not routinely purged and sampled.

WDNR = Wisconsin Department of Natural Resources

¹ Of this well/piezometer pair, only the piezometer, PZ-2/T66, is a perimeter well that is routinely purged and sampled

² Of this well/piezometer pair, only the well, MW-2/T66, is an "other" well and is not routinely purged or sampled

³ On September 1, 2022 monitoring well MW-3/T50 was sealed after it was damaged.

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2022)
Superior Refining Company LLC
Superior, Wisconsin

Description	Monitoring Well ID and Reference Information													
	MW-1	MW-1/T67	MW-2	MW-2/T66	PZ-2/T66	MW-3D	PZ-3D	MW-3/T50	MW-5/T40	MW-5/T70	MW-7	MW-8R	PZ-8R	MW-9B
Top of casing (ft MSL)	659.46	657.75	658.03	659.51	659.07	655.53	656.29	663.73	660.62	660.37	661.12	663.75	664.19	655.82
Ground surface (ft MSL)	655.43	656.41	654.99	657.01	656.30	653.79	653.49	659.96	658.03	657.86	659.59	661.45	661.38	654.38
Top of screen (ft MSL)	649.00	653.40	648.50	654.40	621.57	650.30	618.79	659.23	655.20	655.36	654.70	659.75	626.69	651.10
Bottom of well (ft MSL)	633.80	638.40	633.50	639.40	616.57	635.30	613.79	649.23	645.20	645.36	639.50	649.75	621.69	636.10
Measurement Date	Depth to Water from Top of Casing (feet)													
05/04/16	6.61	2.54	5.21	4.41	12.88	3.32	14.31	6.04	3.75	3.81	4.25	4.91	9.69	3.19
09/07/16	8.24	2.15	7.71	6.06	16.20	3.65	17.15	4.75	3.51	3.69	5.09	4.91	11.17	6.58
04/26/17	6.91	2.08	4.59	3.17	12.66	1.81	13.77	4.30	3.20	3.43	4.11	2.58	6.56	2.62
09/27/17	6.31	1.84	4.28	3.23	14.31	1.99	15.50	4.37	3.15	3.74	3.95	2.72	10.35	3.75
05/21/18	6.96	2.74	7.10	4.82	12.20	3.13	13.19	6.53	4.75	4.29	4.39	3.35	9.20	3.02
09/10/18	8.21	2.29	5.28	4.35	17.30	3.18	18.18	6.48	3.45	2.83	4.62	3.78	12.44	7.87
04/23/19	6.98	4.09	6.92	4.38	13.50	2.12	13.67	3.62	3.27	3.42	4.91	3.59	10.38	2.83
09/09/19	8.46	6.42	7.81	5.27	15.75	2.48	16.62	5.02	3.62	4.22	nm	5.06	10.46	7.68
04/28/20	6.91	2.74	5.34	4.01	13.07	2.48	13.50	5.44	3.61	3.61	4.02	3.71	9.29	2.91
05/12/20	6.78	2.68	5.67	4.83	25.20	3.74	30.10	4.19	4.20	4.43	3.98	4.12	32.30	3.35
05/27/20	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
07/16/20	nm	nm	nm	nm	nm	nm	nm	nm	4.63	4.25	nm	nm	nm	nm
09/10/20	8.93	2.51	7.19	5.59	16.04	4.56	16.66	8.01	4.08	4.62	4.62	5.03	11.19	7.20
09/24/20	13.52	2.71	10.43	5.94	34.87	5.69	35.67	7.71	6.92	4.56	9.07	9.42	31.67	7.00
10/06/20	14.82	nm	12.81	6.12	35.96	8.85	36.01	nm	7.49	4.68	nm	10.81	32.70	13.22
04/27/21	6.80	2.44	4.57	3.29	13.11	2.17	13.60	nm	3.46	3.75	4.60	2.54	9.53	2.89
05/10/21	7.19	2.75	5.78	4.83	27.56	3.75	25.45	nm	4.49	4.39	4.72	4.41	24.60	3.33
05/24/21	11.37	nm	7.31	4.42	35.91	2.43	34.93	nm	3.47	3.44	4.42	4.32	31.12	2.82
09/07/21	10.23	2.84	9.31	6.90	15.91	6.81	16.29	nm	4.54	4.58	6.57	5.61	10.75	9.07
09/21/21	4.01	2.53	13.07	4.00	36.01	10.41	34.97	nm	4.03	3.57	6.42	3.31	31.30	12.09
10/05/21	17.81	2.67	16.06	5.43	36.43	12.32	35.67	nm	3.66	4.21	5.72	3.61	32.73	14.17
04/25/22	6.02	2.23	5.40	4.01	15.30	2.31	14.12	nm	3.45	4.13	5.09	2.56	9.43	2.76
05/09/22	6.75	2.33	5.40	3.99	36.65	2.29	32.71	nm	3.50	4.02	5.22	2.65	27.65	2.81
05/24/22	6.77	2.40	4.87	4.46	37.60	2.93	26.45	nm	4.78	3.95	11.13	5.20	31.25	3.36
09/12/22	10.45	2.60	8.73	6.70	16.19	5.90	16.43	sealed	3.55	4.30	sealed	3.20	10.92	8.90
09/26/22	3.45	2.85	9.59	7.40	32.95	3.66	34.90	sealed	3.64	4.51	sealed	4.15	28.55	11.84
10/12/22	17.15	3.96	10.18	7.68	38.45	6.71	39.36	sealed	3.90	4.25	sealed	4.62	34.92	15.30
	Water Elevation (ft MSL)													
05/04/16	652.85	655.21	652.82	655.10	646.19	652.21	641.98	657.69	656.87	656.56	656.87	658.84	654.50	652.63
09/07/16	651.22	655.60	650.32	653.45	642.87	651.88	639.14	658.98	657.11	656.68	656.03	658.84	653.02	649.24
04/26/17	652.55	655.67	653.44	656.34	646.41	653.72	642.52	659.43	657.42	656.94	657.01	661.17	657.63	653.20
09/27/17	653.15	655.91	653.75	656.28	644.76	653.54	640.79	659.36	657.47	656.63	657.17	661.03	653.84	652.07
05/21/18	652.50	655.01	650.93	654.69	646.87	652.40	643.10	657.20	655.87	656.08	656.73	660.40	654.99	652.80
09/10/18	651.25	655.46	652.75	655.16	641.77	652.35	638.11	657.25	657.17	657.54	656.50	659.97	651.75	647.95
04/23/19	652.48	653.66	651.11	655.13	645.57	653.41	642.62	660.11	657.35	656.95	656.21	660.16	653.81	652.99
09/09/19	651.00	651.33	650.22	654.24	643.32	653.05	639.67	658.71	657.00	656.15	nm	658.69	653.73	648.14
04/28/20	652.55	655.01	652.69	655.50	646.00	653.05	642.79	658.29	657.01	656.76	657.10	660.04	654.90	652.91
05/12/20	652.68	655.07	652.36	654.68	633.87	651.79	626.19	659.54	656.42	655.94	657.14	659.63	631.89	652.47
05/27/20	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
07/16/20	nm	nm	nm	nm	nm	nm	nm	nm	655.99	656.12	nm	nm	nm	nm
09/10/20	650.53	655.24	650.84	653.92	643.03	650.97	639.63	655.72	656.54	655.75	656.50	658.72	653.00	648.62
09/24/20	645.94	655.04	647.60	653.57	624.20	649.84	620.62	656.02	653.70	655.81	652.05	654.33	632.52	648.82
10/06/20	644.64	nm	645.22	653.39	623.11	646.68	620.28	nm	653.13	655.69	nm	652.94	631.49	642.60

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2022)
Superior Refining Company LLC
Superior, Wisconsin

Description	Monitoring Well ID and Reference Information																
	MW-11	PZ-11	MW-12	MW-13	PZ-13	MW-14	MW-15	MW-16	PZ-16	MW-17	PZ-17	MW-18	MW-19	MW-20	MW-21	PZ-21	MW-22
Top of casing (ft MSL)	654.98	655.25	656.70	659.10	658.97	661.16	659.89	658.85	658.65	654.30	654.58	651.89	658.94	659.06	659.29	659.52	659.19
Ground surface (ft MSL)	652.44	652.61	653.92	656.08	656.13	658.14	657.55	655.86	655.79	651.47	651.79	649.36	656.85	655.99	656.73	656.72	657.07
Top of screen (ft MSL)	647.7	617.8	649.0	651.3	621.5	653.1	654.4	653.4	621.2	648.8	617.1	646.4	653.4	653.6	653.8	622.0	653.7
Bottom of well (ft MSL)	632.7	612.8	634.0	636.3	616.5	638.1	639.4	638.4	616.2	633.8	612.1	631.4	638.4	638.6	638.8	617.0	638.7
Measurement Date	Depth to Water from Top of Casing (feet)																
05/04/16	4.42	12.01	4.30	4.46	11.70	4.39	3.65	3.40	16.96	5.09	13.91	4.72	3.65	4.49	3.76	11.62	4.26
09/07/16	7.51	12.55	9.05	9.02	12.48	4.57	3.44	5.56	20.57	5.40	16.86	5.98	4.59	4.60	4.80	12.96	5.91
04/26/17	3.16	11.49	4.78	3.71	11.42	2.48	2.88	3.31	16.43	4.91	13.75	2.85	2.36	3.78	4.49	11.25	2.62
09/27/17	3.70	11.71	4.22	3.53	11.55	3.52	3.00	3.31	18.98	4.93	15.69	3.10	2.31	3.41	3.11	12.02	2.69
05/21/18	3.90	11.22	5.27	5.09	11.08	8.47	2.08	3.31	16.22	6.40	13.30	4.71	3.61	4.67	3.82	11.15	3.80
09/10/18	9.46	12.45	5.43	3.95	12.91	3.81	3.46	5.05	22.96	4.60	18.85	4.91	4.30	4.76	7.05	13.29	4.95
04/23/19	5.16	11.20	5.12	6.29	11.14	8.67	3.04	7.60	16.40	4.89	13.56	3.42	2.31	3.56	4.21	11.62	3.24
09/09/19	9.72	11.62	6.40	11.12	12.10	4.00	6.19	6.44	18.92	6.02	16.04	4.72	3.69	4.96	4.68	13.06	4.72
04/28/20	3.42	11.45	5.63	4.42	12.06	6.15	3.37	3.36	16.51	4.33	3.31*	4.37	3.11	4.02	3.15	11.12	3.60
05/12/20	3.75	24.56	5.09	4.75	16.65	3.97	3.42	3.71	30.64	5.42	28.31	4.98	2.94	4.81	4.12	25.43	3.38
09/10/20	8.78	11.82	5.21	8.79	12.08	4.03	4.32	5.12	19.52	5.52	15.82	5.51	3.91	4.96	4.06	12.62	3.87
09/24/20	11.64	31.47	9.59	11.33	22.94	4.63	5.19	5.61	38.17	10.61	35.53	8.81	5.47	7.34	6.06	32.67	6.23
10/06/20	13.18	26.35	11.34	15.43	31.13	4.87	5.65	7.60	38.73	12.46	35.76	9.83	6.31	8.87	9.88	32.90	2.81
04/27/21	3.62	11.67	4.00	4.09	12.12	nm	3.21	3.41	16.34	3.56	14.71	3.36	2.51	3.95	3.10	11.49	3.40
05/10/21	4.24	16.86	5.35	5.01	28.07	6.52	3.46	3.71	29.58	7.62	30.10	4.79	3.71	5.05	4.03	31.21	4.23
05/24/21	5.15	30.42	5.15	4.26	32.13	3.77	3.16	3.51	34.16	3.53	31.02	3.80	2.42	5.10	3.26	33.27	5.52
09/07/21	10.42	11.65	9.52	12.43	12.14	4.15	7.06	7.48	19.74	6.88	15.84	6.14	6.48	6.99	6.88	13.07	6.12
09/21/21	13.21	29.83	9.45	15.50	28.57	3.80	4.77	9.65	36.50	4.10	35.15	3.71	7.29	4.45	9.02	32.27	6.14
10/04/21	15.00	30.75	9.79	18.27	31.95	4.01	5.85	10.47	38.65	7.13	36.67	4.55	8.21	3.80	10.11	33.71	9.62
04/25/22	5.53	12.17	3.95	4.15	12.97	nm ⁽¹⁾	3.50	3.41	16.52	4.22	13.82	3.53	2.70	3.93	3.74	11.61	2.92
05/09/22	3.43	26.92	3.69	3.99	29.22	6.04	3.45	3.51	38.02	9.38	34.95	3.45	2.51	4.02	3.74	33.63	3.04
05/24/22	3.73	32.85	4.15	4.15	33.08	4.31	3.40	3.60	38.95	11.15	37.60	3.46	2.39	4.17	4.77	35.22	4.83
09/12/22	10.21	12.23	6.55	12.05	12.90	4.05	9.10	6.60	19.83	4.95	16.16	5.85	sealed	6.56	6.63	13.30	6.70
09/26/22	13.60	26.31	10.10	14.94	23.75	5.05	5.89	7.81	38.19	9.45	32.90	5.65	sealed	7.66	9.61	26.66	9.02
10/12/22	15.52	33.93	13.16	13.90	31.85	5.35	7.10	8.85	40.67	12.57	39.02	6.72	sealed	9.31	12.05	31.20	13.05
	Water Elevation (ft MSL)																
05/04/16	650.56	643.24	652.40	654.64	647.27	656.77	656.24	655.45	641.69	649.21	640.67	647.17	655.29	654.57	655.53	647.90	654.93
09/07/16	647.47	642.70	647.65	650.08	646.49	656.59	656.45	653.29	638.08	648.90	637.72	645.91	654.35	654.46	654.49	646.56	653.28
04/26/17	651.82	643.76	651.92	655.39	647.55	658.68	657.01	655.54	642.22	649.39	640.83	649.04	656.58	655.28	654.80	648.27	656.57
09/27/17	651.28	643.54	652.48	655.57	647.42	657.64	656.89	655.54	639.67	649.37	638.89	648.79	656.63	655.65	656.18	647.50	656.50
05/21/18	651.08	644.03	651.43	654.01	647.89	652.69	657.81	655.54	642.43	647.90	641.28	647.18	655.33	654.39	655.47	648.37	655.39
09/10/18	645.52	642.80	651.27	655.15	646.06	657.35	656.43	653.80	635.69	649.70	635.73	646.98	654.64	654.30	652.24	646.23	654.24
04/23/19	649.82	644.05	651.58	652.81	647.83	652.49	656.85	651.25	642.25	649.41	641.02	648.47	656.63	655.50	655.08	647.90	655.95
09/09/19	645.26	643.63	650.30	647.98	646.87	657.16	653.70	652.41	639.73	648.28	638.54	647.17	655.25	654.10	654.61	646.46	654.47
04/28/20	651.56	643.80	651.07	654.68	646.91	655.01	656.52	655.49	642.14	649.97	3.31*	647.52	655.83	655.04	656.14	648.40	655.59
05/12/20	651.23	630.69	651.61	654.35	642.32	657.19	656.47	655.14	628.01	648.88	626.27	646.91	656.00	654.25	655.17	634.09	655.81
09/10/20	646.20	643.43	651.49	650.31	646.89	657.13	655.57	653.73	639.13	648.78	638.76	646.38	655.03	654.10	655.23	646.90	655.32
09/24/20	643.34	623.78	647.11	647.77	636.03	656.53	654.70	653.24	620.48	643.69	619.05	643.08	653.47	651.72	653.23	626.85	652.96
10/06/20	641.80	628.90	645.36	643.67	627.84	656.29	654.24	651.25	619.92	641.84	618.82	642.06	652.63	650.19	649.41	626.62	656.38

Table 2
Fluid Level Monitoring Data
ERP Wells and Piezometers (2016-2022)
Superior Refining Company LLC
Superior, Wisconsin

Description	Monitoring Well ID and Reference Information																
	MW-11	PZ-11	MW-12	MW-13	PZ-13	MW-14	MW-15	MW-16	PZ-16	MW-17	PZ-17	MW-18	MW-19	MW-20	MW-21	PZ-21	MW-22
Top of casing (ft MSL)	654.98	655.25	656.70	659.10	658.97	661.16	659.89	658.85	658.65	654.30	654.58	651.89	658.94	659.06	659.29	659.52	659.19
Ground surface (ft MSL)	652.44	652.61	653.92	656.08	656.13	658.14	657.55	655.86	655.79	651.47	651.79	649.36	656.85	655.99	656.73	656.72	657.07
Top of screen (ft MSL)	647.7	617.8	649.0	651.3	621.5	653.1	654.4	653.4	621.2	648.8	617.1	646.4	653.4	653.6	653.8	622.0	653.7
Bottom of well (ft MSL)	632.7	612.8	634.0	636.3	616.5	638.1	639.4	638.4	616.2	633.8	612.1	631.4	638.4	638.6	638.8	617.0	638.7
04/27/21	651.36	643.58	652.70	655.01	646.85	nm	656.68	655.44	642.31	650.74	639.87	648.53	656.43	655.11	656.19	648.03	655.79
05/10/21	650.74	638.39	651.35	654.09	630.90	654.64	656.43	655.14	629.07	646.68	624.48	647.10	655.23	654.01	655.26	628.31	654.96
05/24/21	649.83	624.83	651.55	654.84	626.84	657.39	656.73	655.34	624.49	650.77	623.56	648.09	656.52	653.96	656.03	626.25	653.67
09/07/21	644.56	643.60	647.18	646.67	646.83	657.01	652.83	651.37	638.91	647.42	638.74	645.75	652.46	652.07	652.41	646.45	653.07
09/21/21	641.77	625.42	647.25	643.60	630.40	657.36	655.12	649.20	622.15	650.20	619.43	648.18	651.65	654.61	650.27	627.25	653.05
10/04/21	639.98	624.50	646.91	640.83	627.02	657.15	654.04	648.38	620.00	647.17	617.91	647.34	650.73	655.26	649.18	625.81	649.57
04/25/22	649.45	643.08	652.75	654.95	646.00	nm ⁽¹⁾	656.39	655.44	642.13	650.08	640.76	648.36	656.24	655.13	655.55	647.91	656.27
05/09/22	651.55	628.33	653.01	655.11	629.75	655.12	656.44	655.34	620.63	644.92	619.63	648.44	656.43	655.04	655.55	625.89	656.15
05/24/22	651.25	622.40	652.55	654.95	625.89	656.85	656.49	655.25	619.70	643.15	616.98	648.43	656.55	654.89	654.52	624.30	654.36
09/12/22	644.77	643.02	650.15	647.05	646.07	657.11	650.79	652.25	638.82	649.35	638.42	646.04	sealed	652.50	652.66	646.22	652.49
09/26/22	641.38	628.94	646.60	644.16	635.22	656.11	654.00	651.04	620.46	644.85	621.68	646.24	sealed	651.40	649.68	632.86	650.17
10/12/22	639.46	621.32	643.54	645.20	627.12	655.81	652.79	650.00	617.98	641.73	615.56	645.17	sealed	649.75	647.24	628.32	646.14
	Calculated Vertical Gradient																
05/04/16	--	(0.29)	--	--	(0.30)	--	--	--	(0.51)	--	(0.32)	--	--	--	--	(0.29)	--
09/07/16	--	(0.19)	--	--	(0.15)	--	--	--	(0.56)	--	(0.42)	--	--	--	--	(0.30)	--
04/26/17	--	(0.32)	--	--	(0.32)	--	--	--	(0.49)	--	(0.32)	--	--	--	--	(0.24)	--
09/27/17	--	(0.31)	--	--	(0.33)	--	--	--	(0.58)	--	(0.39)	--	--	--	--	(0.32)	--
05/21/18	--	(0.28)	--	--	(0.25)	--	--	--	(0.48)	--	(0.25)	--	--	--	--	(0.27)	--
09/10/18	--	(0.11)	--	--	(0.37)	--	--	--	(0.67)	--	(0.52)	--	--	--	--	(0.23)	--
04/23/19	--	(0.23)	--	--	(0.20)	--	--	--	(0.34)	--	(0.31)	--	--	--	--	(0.27)	--
09/09/19	--	(0.07)	--	--	(0.05)	--	--	--	(0.47)	--	(0.37)	--	--	--	--	(0.30)	--
04/28/20	--	(0.31)	--	--	(0.31)	--	--	--	(0.49)	--	NC	--	--	--	--	(0.29)	--
09/10/20	--	(0.11)	--	--	(0.14)	--	--	--	(0.54)	--	(0.38)	--	--	--	--	(0.31)	--
04/27/21	--	(0.31)	--	--	(0.33)	--	--	--	(0.48)	--	(0.41)	--	--	--	--	(0.30)	--
09/07/21	--	(0.04)	--	--	0.01	--	--	--	(0.48)	--	(0.33)	--	--	--	--	(0.23)	--
04/25/22	--	(0.26)	--	--	(0.36)	--	--	--	(0.49)	--	(0.35)	--	--	--	--	(0.29)	--
09/12/22	--	(0.07)	--	--	(0.04)	--	--	--	(0.50)	--	(0.41)	--	--	--	--	(0.25)	--

NOTES:

Site datum = NAVD 88 feet above mean sea level (ft MSL). No measurable thickness of free product observed in any of the monitoring wells.

Negative/downward calculated vertical gradients are enclosed in parenthesis and (red).

NC - not calculated due to anomalous depth to water reading.

Free product has not been observed in the monitoring wells or piezometers since gauging began in 2016

-- = Not applicable.

FOOTNOTES:

* - anomalous data point; possible data recording error.

(1) = Well was frozen.

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-1 (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	0.14 J	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-2 (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-2/T66							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/25/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/13/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-3D (ERP and GEMS) ⁽¹⁾							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-3D							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-7							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	1.9	< 0.67	< 0.98
2019	Well not sampled due to bent casing and suspect surface water infiltration						
2020							
2021							
5/25/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
Monitoring well MW-7 was abandoned on September 1, 2022.							

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-8R (ERP and GEMS)							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	0.31 a
5/25/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-8R							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/25/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-9B (ERP and GEMS) ⁽²⁾							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/7/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/5/2016	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/25/2017	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/10/2018	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.25	< 0.22	< 1.2	< 1.2	< 0.17	< 1.71	< 0.73
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.30
5/25/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20

Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-11							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	0.22 J	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-11							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-12							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20

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ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-13							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-13							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-14							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/12/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	0.37 a	0.31 J
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20

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ERP Piezometers and Perimeter Wells
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Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-15							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-16							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
5/24/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
10/5/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
PZ-16							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
5/15/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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Table 3
Groundwater Analytical Data Summary
ERP Piezometers and Perimeter Wells
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
MW-17							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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10/13/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-18							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)							
	Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL		0.5	140	12	10	160	96	400
NR 140 ES		5.0	700	60	100	800	480	2,000
MW-19								
	6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
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	5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
	5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
	10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
	5/25/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
	10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
	5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
Monitoring well MW-19 was abandoned on September 1, 2022.								
MW-20								
	6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
	5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
	10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
	5/25/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
	10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
	5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
	10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-21								
	6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
	5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/4/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	5/16/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	10/24/2017	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
	6/11/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	10/9/2018	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	5/20/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.49	< 0.67	< 0.98
	10/8/2019	< 0.31	< 0.33	< 0.32	< 0.51	< 0.16	< 0.67	< 0.47
	5/27/2020	< 0.25	< 0.32	< 1.2	< 1.2	< 0.27	< 1.71	< 1.5
	10/5/2020	< 0.12	< 0.075	< 0.12	< 0.68	< 0.12	< 0.29	< 0.29
	5/25/2021	< 0.30	< 0.33	< 1.1	< 1.1	< 0.29	< 0.81	< 1.0
	10/4/2021	< 0.12	< 0.069	< 0.18	< 0.20	< 0.11	< 0.22	< 0.18
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Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifier (if any)						
	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	TMBs	Xylenes
NR 140 PAL	0.5	140	12	10	160	96	400
NR 140 ES	5.0	700	60	100	800	480	2,000
PZ-21							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
5/23/2016	< 0.40	< 0.39	< 0.48	< 0.42	< 0.39	< 0.84	< 1.25
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10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
MW-22							
6/23/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
10/6/2015	< 0.50	< 0.50	< 0.17	< 2.5	< 0.50	< 1.00	< 1.5
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5/24/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20
10/12/2022	< 0.10	< 0.11	< 0.13	< 0.18	< 0.10	< 0.24	< 0.20

NOTES:

Concentrations are in micrograms per liter (µg/l). No results are at or above an NR 140 ES or PAL.

NR 140 ES = Wisconsin Administrative Code NR 140 Enforcement Standard; 7/1/2015.

NR 140 PAL = Wisconsin Administrative Code NR 140 Preventative Action Limit; 7/1/2015.

TMBs = Sum of 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

MTBE = Methyl tert butyl ether.

PVOC = Petroleum Volatile Organic Compound

(1) MW-3D is a replacement for MW-3B.

(2) MW-9B is a replacement for MW-9.

a = Estimated value, calculated using some or all values that are estimates.

J = Estimated detected value. Either certain QC criteria were not met or the concentration is between the laboratory's detection and quantitation limits.

Table 4
ERP Well Elevations Summary
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Well Location	Well Diameter (inch)	Elevations		Screened Interval (ft MSL)	Total Depth (ft bgs)
			TOC (ft MSL)	Ground Surface (ft MSL)		
MW-1	NE corner of refinery	2	659.46	655.43	649.0-633.8	22.0
MW-1/T67	Tank 67 basin	2	657.75	656.41	653.4-638.4	18.0
MW-2	NE corner of refinery	2	658.03	654.99	648.5-633.5	22.0
MW-2/T66	SE of Tank 65 basin	2	659.51	657.01	654.4- 630.4	18.0
PZ-2/T66	SE of Tank 65 basin	2	659.07	656.30	621.57-616.57	40.0
MW-3D	NE corner of refinery	2	655.53	653.79	650.3-635.3	18.9
PZ-3D	NE corner of refinery	2	656.29	653.49	618.79-613.79	40.0
MW-5/T40	Tank 40 basin	2	660.62	658.03	655.20-645.20	13.0
MW-5/T70	Tank 70 basin	2	660.37	657.86	655.39-645.36	13.0
MW-7R	Central area of refinery	2	662.17	659.64	655.4-645.4	14.2
MW-8R	Tanks 106/112/114; SW corner of refinery	2	663.75	661.45	659.75-649.75	13.0
PZ-8R	Tanks 106/112/114; SW corner of refinery	2	664.19	661.38	626.69-621.69	40.0
MW-9B	NW of Wastewater Treatment Plant	2	655.82	654.38	651.1-636.1	18.5
MW-11	Near intersection of Stinson & Bardon Av	2	654.98	652.44	647.7-632.7	20.0
PZ-11	Near intersection of Stinson & Bardon Av	2	655.25	652.61	617.8-612.8	40.0
MW-12	South-central property boundary	2	656.70	653.92	649.0-634.0	20.0
MW-13	South-central property boundary	2	659.10	656.08	651.3-636.3	20.0
PZ-13	South-central property boundary	2	658.97	656.13	621.5-616.5	40.0
MW-14	South-central property boundary	2	661.16	658.14	653.1-638.1	20.0
MW-15	North of refinery	2	659.89	657.55	654.4-639.4	18.0
MW-16	NE corner of refinery	2	658.85	655.86	653.4-638.4	18.0
PZ-16	NE corner of refinery	2	658.65	655.79	621.2-616.2	40.0
MW-17	SE of Wastewater Treatment Plant	2	654.30	651.47	648.8-633.8	18.0
PZ-17	SE of Wastewater Treatment Plant	2	654.58	651.79	617.1-612.1	40.0
MW-18	Near intersection of Stinson & Bardon Av	2	651.89	649.36	646.4-631.4	18.0
MW-19R	South tank farm	2	661.26	658.71	654.5-644.5	14.2
MW-20	South tank farm	2	659.06	655.99	653.6-638.6	18.0
MW-21	South tank farm	2	659.29	656.73	653.8-638.6	18.0
PZ-21	South tank farm	2	659.52	656.72	622.0-617.0	40.0
MW-22	South tank farm	2	659.19	657.07	653.7-638.7	18.0

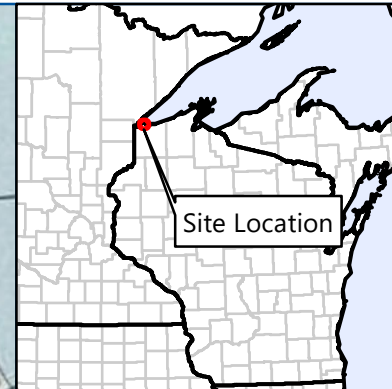
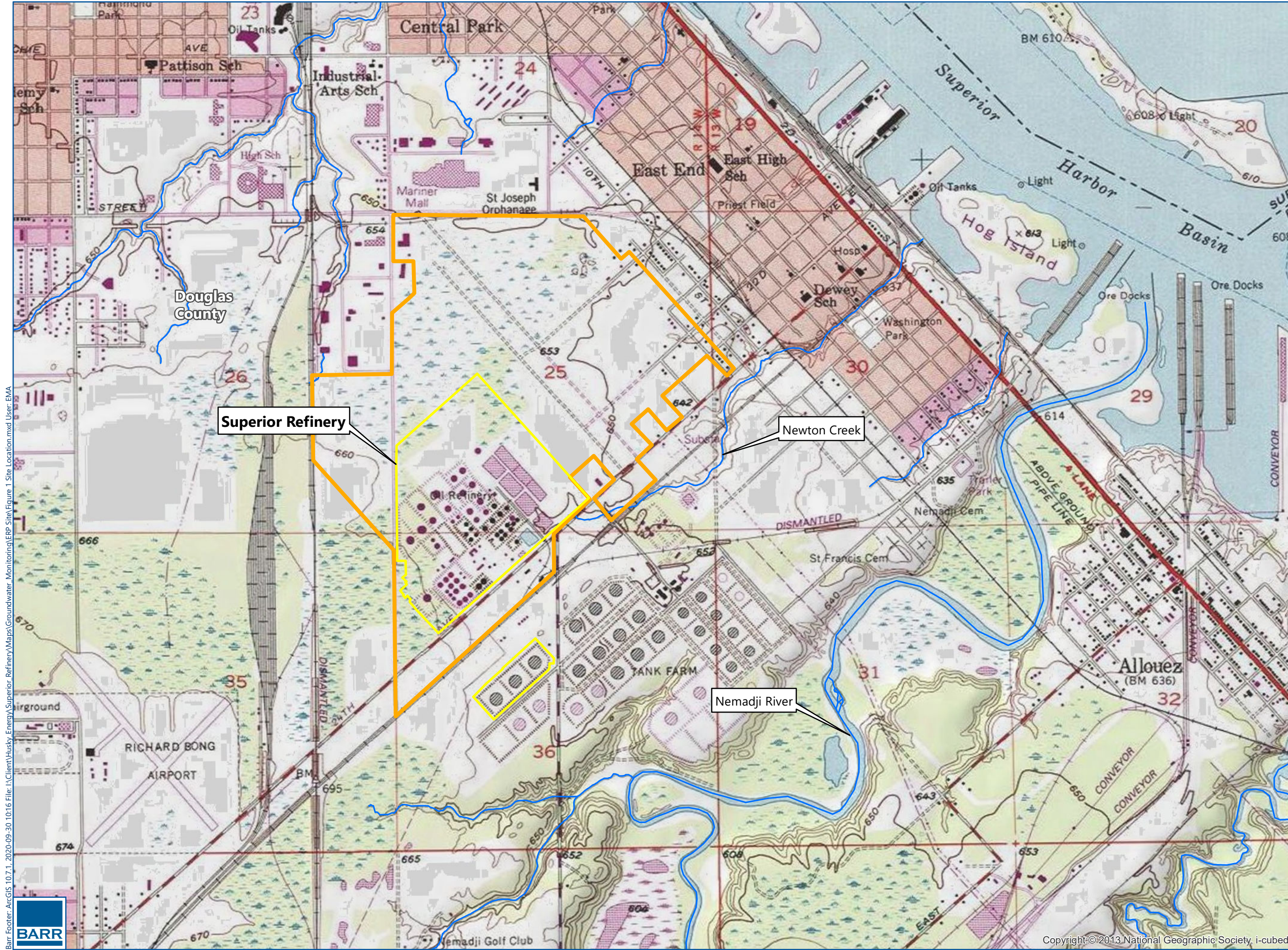
Notes:

TOC = Top of casing

ft MSL = feet above mean seal level

ft bgs = feet below ground surface

Figures

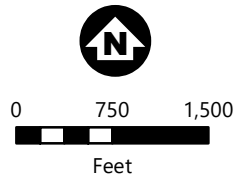


- Approximate SRC Property Boundaries for Contiguous Operations
- Approximate Fenceline Boundaries for Refining-Related Activities

Superior Refinery

Newton Creek

Nemadji River



SITE LOCATION
 Superior Refining
 Company LLC (SRC)
 Superior, WI
FIGURE 1





Approximate Fenceline Boundaries for Refining-Related Activities

Groundwater Contour (dashed where inferred)

Existing Monitoring Well

Existing Monitoring Well & Piezometer Pair (groundwater elevation shown is for monitoring well)

Abandoned Monitoring Well

Groundwater Flow Direction

Topographic Contours

10-Foot Contours

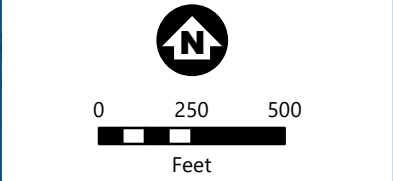
2-Foot Contours

(655.49) Groundwater Elevation (ft MSL)

Depth to groundwater measured April, 25, 27-28 and May 2, 2022 or prior to first purge event (MW-14). MW-14 measured on May 10, 2022.

Well/Piezometer locations based on information from Gannett Fleming, 2019.

Topographic Contours Source: Douglas County, 2016



GROUNDWATER CONTOUR MAP, APRIL 2022
Superior Refining Company LLC (SRC)
Superior, WI

FIGURE 2

Attachments

Attachment A

Pace Analytical Laboratory Reports

Spring and Fall Reports

June 21, 2022

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494.02 100 102 SRC GW ERP-Revised Report
Pace Project No.: 10610373

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2022. 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

This report was revised on June 21, 2022, to update the sample ID for Pace sample 10610373020.

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

Sincerely,



Martha Hansen
martha.hansen@pacelabs.com
(612)607-6451
Project Manager

Enclosures

cc: Barr DM, Barr Engineering
Accounts Payable, Barr Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

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 Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 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 (A2LA) #: R-036
North Dakota Certification (MN) #: 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: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10610373001	MW-11	Water	05/24/22 11:05	05/27/22 15:05
10610373002	PZ-11	Water	05/24/22 11:08	05/27/22 15:05
10610373003	MW-12	Water	05/24/22 11:25	05/27/22 15:05
10610373004	MW-13	Water	05/24/22 11:37	05/27/22 15:05
10610373005	PZ-13	Water	05/24/22 11:42	05/27/22 15:05
10610373006	MW-14	Water	05/24/22 11:57	05/27/22 15:05
10610373007	MW-20	Water	05/24/22 12:50	05/27/22 15:05
10610373008	MW-21	Water	05/24/22 13:00	05/27/22 15:05
10610373009	MW-19	Water	05/24/22 13:15	05/27/22 15:05
10610373010	MW-22	Water	05/24/22 13:32	05/27/22 15:05
10610373011	MW-15	Water	05/24/22 14:05	05/27/22 15:05
10610373012	MW-1	Water	05/24/22 14:15	05/27/22 15:05
10610373013	MW-16	Water	05/24/22 14:25	05/27/22 15:05
10610373014	PZ-16	Water	05/24/22 14:32	05/27/22 15:05
10610373015	MW-2	Water	05/24/22 14:38	05/27/22 15:05
10610373016	MW-3D	Water	05/24/22 14:46	05/27/22 15:05
10610373017	PZ-3D	Water	05/24/22 14:50	05/27/22 15:05
10610373018	PZ-21	Water	05/24/22 13:05	05/27/22 15:05
10610373019	MW-7	Water	05/25/22 08:00	05/27/22 15:05
10610373020	MW-9B	Water	05/25/22 09:55	05/27/22 15:05
10610373021	MW-17	Water	05/25/22 10:07	05/27/22 15:05
10610373022	PZ-17	Water	05/25/22 10:14	05/27/22 15:05
10610373023	MW-18	Water	05/25/22 10:25	05/27/22 15:05
10610373024	PZ-2/T66	Water	05/25/22 10:37	05/27/22 15:05
10610373025	MW-8R	Water	05/25/22 10:55	05/27/22 15:05
10610373026	PZ-8R	Water	05/25/22 11:00	05/27/22 15:05
10610373027	Trip Blank	Water	05/24/22 00:00	05/27/22 15:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10610373001	MW-11	EPA 8260D	TKL	11	PASI-M
10610373002	PZ-11	EPA 8260D	TKL	11	PASI-M
10610373003	MW-12	EPA 8260D	NMB	11	PASI-M
10610373004	MW-13	EPA 8260D	NMB	11	PASI-M
10610373005	PZ-13	EPA 8260D	NMB	11	PASI-M
10610373006	MW-14	EPA 8260D	NMB	11	PASI-M
10610373007	MW-20	EPA 8260D	NMB	11	PASI-M
10610373008	MW-21	EPA 8260D	NMB	11	PASI-M
10610373009	MW-19	EPA 8260D	NMB	11	PASI-M
10610373010	MW-22	EPA 8260D	NMB	11	PASI-M
10610373011	MW-15	EPA 8260D	NMB	11	PASI-M
10610373012	MW-1	EPA 8260D	NMB	11	PASI-M
10610373013	MW-16	EPA 8260D	NMB	11	PASI-M
10610373014	PZ-16	EPA 8260D	NMB	11	PASI-M
10610373015	MW-2	EPA 8260D	NMB	11	PASI-M
10610373016	MW-3D	EPA 8260D	NMB	11	PASI-M
10610373017	PZ-3D	EPA 8260D	NMB	11	PASI-M
10610373018	PZ-21	EPA 8260D	NMB	11	PASI-M
10610373019	MW-7	EPA 8260D	NMB	11	PASI-M
10610373020	MW-9B	EPA 8260D	NMB	11	PASI-M
10610373021	MW-17	EPA 8260D	NMB	11	PASI-M
10610373022	PZ-17	EPA 8260D	NMB	11	PASI-M
10610373023	MW-18	EPA 8260D	NMB	11	PASI-M
10610373024	PZ-2/T66	EPA 8260D	NMB	11	PASI-M
10610373025	MW-8R	EPA 8260D	NMB	11	PASI-M
10610373026	PZ-8R	EPA 8260D	NMB	11	PASI-M
10610373027	Trip Blank	EPA 8260D	NMB	11	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-11 **Lab ID: 10610373001** Collected: 05/24/22 11:05 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/07/22 02:18	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/07/22 02:18	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/07/22 02:18	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/07/22 02:18	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/07/22 02:18	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/07/22 02:18	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/07/22 02:18	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/07/22 02:18	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		06/07/22 02:18	2199-69-1	
4-Bromofluorobenzene (S)	106	%	75-125		1		06/07/22 02:18	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/07/22 02:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-11 **Lab ID: 10610373002** Collected: 05/24/22 11:08 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/07/22 02:33	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/07/22 02:33	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/07/22 02:33	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/07/22 02:33	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/07/22 02:33	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/07/22 02:33	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/07/22 02:33	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/07/22 02:33	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		06/07/22 02:33	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		06/07/22 02:33	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		06/07/22 02:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-12 **Lab ID: 10610373003** Collected: 05/24/22 11:25 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 15:59	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 15:59	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 15:59	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 15:59	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 15:59	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 15:59	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 15:59	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 15:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		05/28/22 15:59	2199-69-1	
4-Bromofluorobenzene (S)	104	%	75-125		1		05/28/22 15:59	460-00-4	
Toluene-d8 (S)	108	%	75-125		1		05/28/22 15:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-13 **Lab ID: 10610373004** Collected: 05/24/22 11:37 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:14	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:14	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 16:14	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 16:14	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:14	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 16:14	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:14	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 16:14	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	75-125		1		05/28/22 16:14	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/28/22 16:14	460-00-4	
Toluene-d8 (S)	104	%	75-125		1		05/28/22 16:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-13 **Lab ID: 10610373005** Collected: 05/24/22 11:42 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:29	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:29	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 16:29	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 16:29	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:29	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 16:29	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:29	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 16:29	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		05/28/22 16:29	2199-69-1	
4-Bromofluorobenzene (S)	106	%	75-125		1		05/28/22 16:29	460-00-4	
Toluene-d8 (S)	104	%	75-125		1		05/28/22 16:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-14 **Lab ID: 10610373006** Collected: 05/24/22 11:57 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:43	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:43	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 16:43	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 16:43	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:43	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 16:43	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:43	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 16:43	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		05/28/22 16:43	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/28/22 16:43	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 16:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-20 **Lab ID: 10610373007** Collected: 05/24/22 12:50 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:58	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:58	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 16:58	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 16:58	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 16:58	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 16:58	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 16:58	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 16:58	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		05/28/22 16:58	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/28/22 16:58	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		05/28/22 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-21 **Lab ID: 10610373008** Collected: 05/24/22 13:00 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:13	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:13	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 17:13	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 17:13	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:13	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 17:13	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:13	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 17:13	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		05/28/22 17:13	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/28/22 17:13	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		05/28/22 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-19 **Lab ID: 10610373009** Collected: 05/24/22 13:15 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:28	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:28	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 17:28	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 17:28	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:28	108-88-3	M1
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 17:28	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:28	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 17:28	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		05/28/22 17:28	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/28/22 17:28	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 17:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-22 **Lab ID: 10610373010** Collected: 05/24/22 13:32 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:43	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:43	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 17:43	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 17:43	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:43	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 17:43	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:43	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 17:43	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		05/28/22 17:43	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/28/22 17:43	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 17:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-15 **Lab ID: 10610373011** Collected: 05/24/22 14:05 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:58	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:58	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 17:58	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 17:58	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 17:58	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 17:58	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 17:58	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 17:58	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		05/28/22 17:58	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/28/22 17:58	460-00-4	
Toluene-d8 (S)	107	%	75-125		1		05/28/22 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-1 **Lab ID: 10610373012** Collected: 05/24/22 14:15 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:13	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:13	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 18:13	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 18:13	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:13	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 18:13	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:13	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 18:13	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		05/28/22 18:13	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/28/22 18:13	460-00-4	
Toluene-d8 (S)	107	%	75-125		1		05/28/22 18:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-16 **Lab ID: 10610373013** Collected: 05/24/22 14:25 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:28	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:28	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 18:28	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 18:28	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:28	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 18:28	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:28	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 18:28	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	75-125		1		05/28/22 18:28	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/28/22 18:28	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		05/28/22 18:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-16 **Lab ID: 10610373014** Collected: 05/24/22 14:32 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:42	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:42	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 18:42	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 18:42	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:42	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 18:42	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:42	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 18:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		05/28/22 18:42	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125		1		05/28/22 18:42	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		05/28/22 18:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-2 **Lab ID: 10610373015** Collected: 05/24/22 14:38 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:57	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:57	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 18:57	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 18:57	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 18:57	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 18:57	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 18:57	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 18:57	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		05/28/22 18:57	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/28/22 18:57	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-3D **Lab ID: 10610373016** Collected: 05/24/22 14:46 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:12	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:12	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 19:12	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 19:12	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:12	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 19:12	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:12	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 19:12	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		05/28/22 19:12	2199-69-1	
4-Bromofluorobenzene (S)	107	%	75-125		1		05/28/22 19:12	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-3D **Lab ID: 10610373017** Collected: 05/24/22 14:50 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:27	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:27	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 19:27	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 19:27	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:27	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 19:27	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:27	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 19:27	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	75-125		1		05/28/22 19:27	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		05/28/22 19:27	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 19:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-21 **Lab ID: 10610373018** Collected: 05/24/22 13:05 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:42	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:42	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/28/22 19:42	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/28/22 19:42	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/28/22 19:42	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/28/22 19:42	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/28/22 19:42	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/28/22 19:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		05/28/22 19:42	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		05/28/22 19:42	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		05/28/22 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-7 **Lab ID: 10610373019** Collected: 05/25/22 08:00 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 16:42	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 16:42	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 16:42	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 16:42	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 16:42	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 16:42	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 16:42	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 16:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	75-125		1		06/02/22 16:42	2199-69-1	
4-Bromofluorobenzene (S)	103	%	75-125		1		06/02/22 16:42	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-9B **Lab ID: 10610373020** Collected: 05/25/22 09:55 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 16:57	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 16:57	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 16:57	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 16:57	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 16:57	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 16:57	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 16:57	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 16:57	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		06/02/22 16:57	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		06/02/22 16:57	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 16:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-17 **Lab ID: 10610373021** Collected: 05/25/22 10:07 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 17:28	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 17:28	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 17:28	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 17:28	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 17:28	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 17:28	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 17:28	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 17:28	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		06/02/22 17:28	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		06/02/22 17:28	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 17:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-17 **Lab ID: 10610373022** Collected: 05/25/22 10:14 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 17:13	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 17:13	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 17:13	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 17:13	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 17:13	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 17:13	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 17:13	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 17:13	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	75-125		1		06/02/22 17:13	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		06/02/22 17:13	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-18 **Lab ID: 10610373023** Collected: 05/25/22 10:25 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 20:51	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 20:51	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 20:51	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 20:51	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 20:51	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 20:51	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 20:51	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 20:51	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		06/02/22 20:51	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		06/02/22 20:51	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 20:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-2/T66 **Lab ID: 10610373024** Collected: 05/25/22 10:37 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:06	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:06	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 21:06	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 21:06	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:06	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 21:06	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:06	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 21:06	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%	75-125		1		06/02/22 21:06	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		06/02/22 21:06	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/02/22 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: MW-8R **Lab ID: 10610373025** Collected: 05/25/22 10:55 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:22	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:22	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 21:22	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 21:22	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:22	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 21:22	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:22	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 21:22	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	75-125		1		06/02/22 21:22	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125		1		06/02/22 21:22	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/02/22 21:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: PZ-8R **Lab ID: 10610373026** Collected: 05/25/22 11:00 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:37	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:37	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		06/02/22 21:37	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		06/02/22 21:37	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		06/02/22 21:37	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		06/02/22 21:37	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		06/02/22 21:37	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		06/02/22 21:37	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		1		06/02/22 21:37	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		06/02/22 21:37	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/02/22 21:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Sample: Trip Blank **Lab ID: 10610373027** Collected: 05/24/22 00:00 Received: 05/27/22 15:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		05/31/22 13:41	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		05/31/22 13:41	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		05/31/22 13:41	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		05/31/22 13:41	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		05/31/22 13:41	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		05/31/22 13:41	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		05/31/22 13:41	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		05/31/22 13:41	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		05/31/22 13:41	2199-69-1	
4-Bromofluorobenzene (S)	104	%	75-125		1		05/31/22 13:41	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		05/31/22 13:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

QC Batch: 818275 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260D MSV UST-WATER
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10610373003, 10610373004, 10610373005, 10610373006, 10610373007, 10610373008, 10610373009, 10610373010, 10610373011, 10610373012, 10610373013, 10610373014, 10610373015, 10610373016, 10610373017, 10610373018

METHOD BLANK: 4336977 Matrix: Water
 Associated Lab Samples: 10610373003, 10610373004, 10610373005, 10610373006, 10610373007, 10610373008, 10610373009, 10610373010, 10610373011, 10610373012, 10610373013, 10610373014, 10610373015, 10610373016, 10610373017, 10610373018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	05/28/22 14:45	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	05/28/22 14:45	
Benzene	ug/L	<0.10	1.0	05/28/22 14:45	
Ethylbenzene	ug/L	<0.11	1.0	05/28/22 14:45	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	05/28/22 14:45	
Naphthalene	ug/L	<0.18	1.0	05/28/22 14:45	
Toluene	ug/L	<0.10	1.0	05/28/22 14:45	
Xylene (Total)	ug/L	<0.20	3.0	05/28/22 14:45	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125	05/28/22 14:45	
4-Bromofluorobenzene (S)	%	103	75-125	05/28/22 14:45	
Toluene-d8 (S)	%	109	75-125	05/28/22 14:45	

LABORATORY CONTROL SAMPLE: 4336978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.7	93	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.7	94	75-125	
Benzene	ug/L	20	16.7	83	73-125	
Ethylbenzene	ug/L	20	17.9	89	75-125	
Methyl-tert-butyl ether	ug/L	20	17.9	90	75-125	
Naphthalene	ug/L	20	21.6	108	66-127	
Toluene	ug/L	20	16.1	80	74-125	
Xylene (Total)	ug/L	60	54.6	91	72-125	
1,2-Dichlorobenzene-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4338094 4338095

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610373009	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	20	16.5	16.1	82	81	62-138	2	30	
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	20	16.2	16.2	81	81	64-135	0	30	
Benzene	ug/L	<0.10	20	20	20	17.0	17.4	85	87	65-140	3	30	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Parameter	Units	4338094		4338095		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610373009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Ethylbenzene	ug/L	<0.11	20	20	17.1	17.5	86	87	66-126	2	30		
Methyl-tert-butyl ether	ug/L	<0.13	20	20	18.6	17.5	93	87	65-137	6	30		
Naphthalene	ug/L	<0.18	20	20	16.8	16.2	84	81	56-141	4	30		
Toluene	ug/L	<0.10	20	20	16.9	13.4	84	67	69-131	23	30	M1	
Xylene (Total)	ug/L	<0.20	60	60	50.3	50.3	84	84	68-136	0	30		
1,2-Dichlorobenzene-d4 (S)	%						102	101	75-125				
4-Bromofluorobenzene (S)	%						105	107	75-125				
Toluene-d8 (S)	%						101	81	75-125				

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: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

QC Batch: 818549	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV UST-WATER
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10610373027

METHOD BLANK: 4338200 Matrix: Water

Associated Lab Samples: 10610373027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	05/31/22 13:10	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	05/31/22 13:10	
Benzene	ug/L	<0.10	1.0	05/31/22 13:10	
Ethylbenzene	ug/L	<0.11	1.0	05/31/22 13:10	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	05/31/22 13:10	
Naphthalene	ug/L	<0.18	1.0	05/31/22 13:10	
Toluene	ug/L	<0.10	1.0	05/31/22 13:10	
Xylene (Total)	ug/L	<0.20	3.0	05/31/22 13:10	
1,2-Dichlorobenzene-d4 (S)	%	102	75-125	05/31/22 13:10	
4-Bromofluorobenzene (S)	%	103	75-125	05/31/22 13:10	
Toluene-d8 (S)	%	100	75-125	05/31/22 13:10	

LABORATORY CONTROL SAMPLE: 4338201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.6	93	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.5	92	75-125	
Benzene	ug/L	20	17.6	88	73-125	
Ethylbenzene	ug/L	20	18.7	94	75-125	
Methyl-tert-butyl ether	ug/L	20	22.4	112	75-125	
Naphthalene	ug/L	20	19.7	99	66-127	
Toluene	ug/L	20	18.2	91	74-125	
Xylene (Total)	ug/L	60	55.8	93	72-125	
1,2-Dichlorobenzene-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4338202 4338203

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10609369014 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trimethylbenzene	ug/L	1.0	20	20	17.5	18.3	82	87	62-138	5	30		
1,3,5-Trimethylbenzene	ug/L	1.4	20	20	18.1	18.8	83	87	64-135	4	30		
Benzene	ug/L	93.2	20	20	112	113	95	99	65-140	1	30		
Ethylbenzene	ug/L	0.36J	20	20	16.9	17.7	83	86	66-126	4	30		
Methyl-tert-butyl ether	ug/L	6.2	20	20	25.2	25.9	95	99	65-137	3	30		
Naphthalene	ug/L	0.35J	20	20	18.7	19.5	92	96	56-141	5	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Parameter	Units	4338202		4338203		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10609369014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Toluene	ug/L	4.4	20	20	20.7	21.3	82	84	69-131	2	30		
Xylene (Total)	ug/L	8.0	60	60	57.1	59.1	82	85	68-136	3	30		
1,2-Dichlorobenzene-d4 (S)	%						100	103	75-125				
4-Bromofluorobenzene (S)	%						104	103	75-125				
Toluene-d8 (S)	%						102	102	75-125				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

QC Batch: 819119 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260D MSV UST-WATER
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10610373019, 10610373020, 10610373021, 10610373022

METHOD BLANK: 4340542 Matrix: Water
 Associated Lab Samples: 10610373019, 10610373020, 10610373021, 10610373022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	06/02/22 12:33	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	06/02/22 12:33	
Benzene	ug/L	<0.10	1.0	06/02/22 12:33	
Ethylbenzene	ug/L	<0.11	1.0	06/02/22 12:33	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	06/02/22 12:33	
Naphthalene	ug/L	<0.18	1.0	06/02/22 12:33	
Toluene	ug/L	<0.10	1.0	06/02/22 12:33	
Xylene (Total)	ug/L	<0.20	3.0	06/02/22 12:33	
1,2-Dichlorobenzene-d4 (S)	%	102	75-125	06/02/22 12:33	
4-Bromofluorobenzene (S)	%	97	75-125	06/02/22 12:33	
Toluene-d8 (S)	%	100	75-125	06/02/22 12:33	

LABORATORY CONTROL SAMPLE: 4340543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	17.3	87	75-125	
1,3,5-Trimethylbenzene	ug/L	20	17.6	88	75-125	
Benzene	ug/L	20	18.7	94	73-125	
Ethylbenzene	ug/L	20	18.9	94	75-125	
Methyl-tert-butyl ether	ug/L	20	19.3	97	75-125	
Naphthalene	ug/L	20	17.4	87	66-127	
Toluene	ug/L	20	18.7	93	74-125	
Xylene (Total)	ug/L	60	56.4	94	72-125	
1,2-Dichlorobenzene-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4340545 4340546

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610814001 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trimethylbenzene	ug/L	ND	100	100	100	74.0	78.5	74	79	62-138	6	30	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	100	72.6	77.4	73	77	64-135	6	30	
Benzene	ug/L	ND	100	100	100	80.2	83.8	80	84	65-140	4	30	
Ethylbenzene	ug/L	ND	100	100	100	78.5	83.9	78	84	66-126	7	30	
Methyl-tert-butyl ether	ug/L	ND	100	100	100	84.2	90.3	84	90	65-137	7	30	
Naphthalene	ug/L	ND	100	100	100	76.0	86.3	76	86	56-141	13	30	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Parameter	Units	4340545		4340546		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610814001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Toluene	ug/L	ND	100	100	79.7	83.7	80	84	69-131	5	30		
Xylene (Total)	ug/L	ND	300	300	236	251	79	84	68-136	6	30		
1,2-Dichlorobenzene-d4 (S)	%						101	101	75-125			1M	
4-Bromofluorobenzene (S)	%						102	103	75-125				
Toluene-d8 (S)	%						103	102	75-125				

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

QC Batch: 819185 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260D MSV UST-WATER
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10610373023, 10610373024, 10610373025, 10610373026

METHOD BLANK: 4340777 Matrix: Water
 Associated Lab Samples: 10610373023, 10610373024, 10610373025, 10610373026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	06/02/22 20:19	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	06/02/22 20:19	
Benzene	ug/L	<0.10	1.0	06/02/22 20:19	
Ethylbenzene	ug/L	<0.11	1.0	06/02/22 20:19	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	06/02/22 20:19	
Naphthalene	ug/L	<0.18	1.0	06/02/22 20:19	
Toluene	ug/L	<0.10	1.0	06/02/22 20:19	
Xylene (Total)	ug/L	<0.20	3.0	06/02/22 20:19	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	06/02/22 20:19	
4-Bromofluorobenzene (S)	%	102	75-125	06/02/22 20:19	
Toluene-d8 (S)	%	101	75-125	06/02/22 20:19	

LABORATORY CONTROL SAMPLE: 4340778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	15.9	80	75-125	
1,3,5-Trimethylbenzene	ug/L	20	15.7	79	75-125	
Benzene	ug/L	20	16.9	85	73-125	
Ethylbenzene	ug/L	20	16.8	84	75-125	
Methyl-tert-butyl ether	ug/L	20	19.2	96	75-125	
Naphthalene	ug/L	20	16.3	81	66-127	
Toluene	ug/L	20	17.0	85	74-125	
Xylene (Total)	ug/L	60	49.4	82	72-125	
1,2-Dichlorobenzene-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			105	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4340779 4340780

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610470001 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trimethylbenzene	ug/L	109	20	20	20	131	127	110	86	62-138	4	30	
1,3,5-Trimethylbenzene	ug/L	14.1	20	20	20	35.9	34.5	109	102	64-135	4	30	
Benzene	ug/L	ND	20	20	20	22.2	21.9	99	98	65-140	1	30	
Ethylbenzene	ug/L	ND	20	20	20	25.4	24.8	105	102	66-126	3	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20	22.8	21.2	114	106	65-137	7	30	
Naphthalene	ug/L	48.2	20	20	20	70.2	68.7	110	102	56-141	2	30	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

Parameter	Units	4340779		4340780		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Toluene	ug/L	ND	20	20	22.6	18.9	109	90	69-131	18	30		
Xylene (Total)	ug/L	103	60	60	164	158	102	93	68-136	3	30		
1,2-Dichlorobenzene-d4 (S)	%						100	101	75-125				
4-Bromofluorobenzene (S)	%						104	104	75-125				
Toluene-d8 (S)	%						103	90	75-125				

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

QC Batch: 819534	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV UST-WATER
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10610373001, 10610373002

METHOD BLANK: 4342739 Matrix: Water

Associated Lab Samples: 10610373001, 10610373002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	06/07/22 02:02	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	06/07/22 02:02	
Benzene	ug/L	<0.10	1.0	06/07/22 02:02	
Ethylbenzene	ug/L	<0.11	1.0	06/07/22 02:02	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	06/07/22 02:02	
Naphthalene	ug/L	<0.18	1.0	06/07/22 02:02	
Toluene	ug/L	<0.10	1.0	06/07/22 02:02	
Xylene (Total)	ug/L	<0.20	3.0	06/07/22 02:02	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	06/07/22 02:02	
4-Bromofluorobenzene (S)	%	105	75-125	06/07/22 02:02	
Toluene-d8 (S)	%	104	75-125	06/07/22 02:02	

LABORATORY CONTROL SAMPLE: 4342740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	97	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
Benzene	ug/L	20	19.8	99	73-125	
Ethylbenzene	ug/L	20	19.5	97	75-125	
Methyl-tert-butyl ether	ug/L	20	20.6	103	75-125	
Naphthalene	ug/L	20	20.0	100	66-127	
Toluene	ug/L	20	19.1	96	74-125	
Xylene (Total)	ug/L	60	58.5	97	72-125	
1,2-Dichlorobenzene-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4342750 4342751

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10610178004 Result	Spike Conc.	Spike Conc.	MS Conc.								
1,2,4-Trimethylbenzene	ug/L	1050	1000	1000	1940	1940	89	89	62-138	0	30		
1,3,5-Trimethylbenzene	ug/L	305	1000	1000	1130	1160	82	85	64-135	2	30		
Benzene	ug/L	4880	1000	1000	6150	5910	126	103	65-140	4	30		
Ethylbenzene	ug/L	393	1000	1000	1260	1170	87	78	66-126	7	30		
Methyl-tert-butyl ether	ug/L	<6.3	1000	1000	895	888	89	89	65-137	1	30		
Naphthalene	ug/L	149	1000	1000	1080	1080	93	93	56-141	0	30		

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4342750 4342751												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		10610178004 Result	Spike Conc.	Spike Conc.	RPD						RPD	Qual
Toluene	ug/L	71.3	1000	1000	885	876	81	81	69-131	1	30	
Xylene (Total)	ug/L	2660	3000	3000	5480	5140	94	83	68-136	6	30	
1,2-Dichlorobenzene-d4 (S)	%						100	98	75-125			
4-Bromofluorobenzene (S)	%						102	92	75-125			
Toluene-d8 (S)	%						97	101	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 49161494.02 100 102 SRC GW ERP-Revised Report

Pace Project No.: 10610373

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.

BATCH QUALIFIERS

Batch: 819119

[1] The continuing calibration verification was below the method acceptance limit for 2-methylnaphthalene. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494.02 100 102 SRC GW ERP-Revised Report
Pace Project No.: 10610373

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10610373001	MW-11	EPA 8260D	819534		
10610373002	PZ-11	EPA 8260D	819534		
10610373003	MW-12	EPA 8260D	818275		
10610373004	MW-13	EPA 8260D	818275		
10610373005	PZ-13	EPA 8260D	818275		
10610373006	MW-14	EPA 8260D	818275		
10610373007	MW-20	EPA 8260D	818275		
10610373008	MW-21	EPA 8260D	818275		
10610373009	MW-19	EPA 8260D	818275		
10610373010	MW-22	EPA 8260D	818275		
10610373011	MW-15	EPA 8260D	818275		
10610373012	MW-1	EPA 8260D	818275		
10610373013	MW-16	EPA 8260D	818275		
10610373014	PZ-16	EPA 8260D	818275		
10610373015	MW-2	EPA 8260D	818275		
10610373016	MW-3D	EPA 8260D	818275		
10610373017	PZ-3D	EPA 8260D	818275		
10610373018	PZ-21	EPA 8260D	818275		
10610373019	MW-7	EPA 8260D	819119		
10610373020	MW-9B	EPA 8260D	819119		
10610373021	MW-17	EPA 8260D	819119		
10610373022	PZ-17	EPA 8260D	819119		
10610373023	MW-18	EPA 8260D	819185		
10610373024	PZ-2/T66	EPA 8260D	819185		
10610373025	MW-8R	EPA 8260D	819185		
10610373026	PZ-8R	EPA 8260D	819185		
10610373027	Trip Blank	EPA 8260D	818549		

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Barr Engineering Co. Chain of Custody

WO#: 10610373

Sample Origination State

CO MI MN MO ND TX WI Other: _____



10610373

OC Number: **No 589281**

OC 1 of 3

REPORT TO				INVOICE TO				Matrix Code:		Preservative Code:			
Company: <u>Barr Engineering Co.</u>				Company: <u>Barr</u>				GW = Groundwater		A = None			
Address: <u>325 S. Lake Ave.</u>				Address:				SW = Surface Water		B = HCl			
Address: <u>Duluth, MN 55802</u>				Address:				WW = Waste Water		C = HNO ₃			
Name: <u>Lynette Carney</u>				Name:				DW = Drinking Water		D = H ₂ SO ₄			
email: <u>lcarney@barr.com</u>				email:				S = Soil/Solid		E = NaOH			
Copy to: <u>BarrDM@barr.com</u>				P.O. <u>-</u>				SD = Sediment		F = MeOH			
Project Name: <u>SRC GW ERP</u>				Barr Project No: <u>4916194.02 100 102</u>				O = Other		G = NaHSO ₄			
Location		Sample Depth		Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD	Y / N	Total Number of Containers	PVC + Nylontine	% Solids	Preservative Code	Field Filtered Y/N
Start	Stop	Unit (m./ft. or in.)											
1.	<u>MW-11</u>	_____	_____	<u>05/24/2022</u>	<u>1105</u>	<u>GW</u>	<u>N</u>	<u>3</u>	<u>X</u>			<u>001</u>	
2.	<u>PZ-11</u>	_____	_____		<u>1108</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>002</u>	
3.	<u>MW-12</u>	_____	_____		<u>1125</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>003</u>	
4.	<u>MW-13</u>	_____	_____		<u>1137</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>004</u>	
5.	<u>PZ-13</u>	_____	_____		<u>1142</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>005</u>	
6.	<u>MW-14</u>	_____	_____		<u>1157</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>006</u>	
7.	<u>MW-20</u>	_____	_____		<u>1250</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>007</u>	
8.	<u>MW-21</u>	_____	_____		<u>1300</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>008</u>	
9.	<u>MW-19</u>	_____	_____		<u>1315</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>009</u>	
10.	<u>MW-22</u>	_____	_____		<u>1332</u>		<u>N</u>	<u>3</u>	<u>X</u>			<u>010</u>	
BARR USE ONLY				Relinquished by: <u>[Signature]</u>		On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>5/24/22</u>	Time: <u>1505</u>	Received by: <u>[Signature]</u>		Date: <u>5/25/22</u>	Time: <u>1505</u>	
Sampled by: <u>KMJ3</u>				Relinquished by:		On Ice? <input type="checkbox"/> Y <input type="checkbox"/> N	Date:	Time:	Received by:		Date:	Time:	
Barr Proj. Manager: <u>JET LMC</u>				Samples Shipped VIA: <input type="checkbox"/> Ground Courier <input type="checkbox"/> Air Carrier		Air Bill Number:		Requested Due Date:					
Barr DQ Manager: <u>JET</u>				<input type="checkbox"/> Sampler <input type="checkbox"/> Other:		Custody Seal Intact? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> None		<input checked="" type="checkbox"/> Standard Turn Around Time					
Lab Name: <u>Pace</u>				Lab WO:		Temperature on Receipt (°C): <u>2.5</u>		<input type="checkbox"/> Rush (mm/dd/yyyy)					
Lab Location: <u>Green Bay or Minneapolis</u>													

Distribution - White-Original: Accompanies Shipment to Laboratory; Yellow Copy: Include in Field Documents; Scan and email: a copy to BarrDM@barr.com for tracking and filing procedures

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt
(SCUR)
Effective Date: 04/12/2022



Sample Condition Upon Receipt

Client Name: Barr Engineering

Project #:

WO#: 10610373

Courier: Fed Ex UPS USPS Pace SpeedDee Commercial

Client MKH 5/30/22

PM: MKH Due Date: 06/13/22
 CLIENT: BARR

See Exceptions ENV-FRM-MIN4-0142

Tracking Number: _____

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) T6(0235) T7 (0042) 01339252/1710 122639816 140792808
 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: 2.5 °C
 Average Corrected Temp (no temp blank only): _____ °C See Exceptions ENV-FRM-MIN4-0142 1 Container
 Correction Factor: 0.0 Cooler Temp Corrected w/temp blank: 2.5 °C

USDA Regulated Soil: (N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MKH 5/27/22
 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 ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	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. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
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? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 11. If no, write ID/ Date/Time on Container Below: <u>0A COC, ID 15 MW-7.0A labels, ID 15 MW-9B</u> See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
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 #
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 <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
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 Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No See Exception <input checked="" type="checkbox"/> ENV-FRM-MIN4-0142 MKH 5/30/22 Chlorine? <input type="checkbox"/> No pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13. See Exception <input checked="" 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.
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>365294 (2)</u>

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No
 Comments/Resolution: _____

Project Manager Review:

[Signature]

Date: 5/30/22

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: *[Signature]*

October 24, 2022

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494.02 100 102 SRC GW ERP
Pace Project No.: 10629888

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2022. 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,



Martha Hansen
martha.hansen@pacelabs.com
(612)607-6451
Project Manager

Enclosures

cc: Barr DM, Barr Engineering
Accounts Payable, Barr Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

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 Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 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 (A2LA) #: R-036
North Dakota Certification (MN) #: 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: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10629888001	PZ-2/T66	Water	10/13/22 09:10	10/14/22 18:46
10629888002	PZ-3D	Water	10/12/22 13:33	10/14/22 18:46
10629888003	PZ-8R	Water	10/12/22 12:15	10/14/22 18:46
10629888004	MW-11	Water	10/12/22 10:48	10/14/22 18:46
10629888005	PZ-11	Water	10/12/22 10:43	10/14/22 18:46
10629888006	MW-12	Water	10/12/22 11:05	10/14/22 18:46
10629888007	MW-13	Water	10/12/22 11:21	10/14/22 18:46
10629888008	PZ-13	Water	10/12/22 11:15	10/14/22 18:46
10629888009	MW-14	Water	10/12/22 11:44	10/14/22 18:46
10629888010	MW-15	Water	10/12/22 12:59	10/14/22 18:46
10629888011	MW-16	Water	10/12/22 14:04	10/14/22 18:46
10629888012	PZ-16	Water	10/12/22 14:40	10/14/22 18:46
10629888013	MW-17	Water	10/13/22 08:43	10/14/22 18:46
10629888014	PZ-17	Water	10/13/22 08:34	10/14/22 18:46
10629888015	MW-18	Water	10/13/22 08:57	10/14/22 18:46
10629888016	MW-20	Water	10/12/22 10:15	10/14/22 18:46
10629888017	MW-21	Water	10/12/22 09:58	10/14/22 18:46
10629888018	PZ-21	Water	10/12/22 10:04	10/14/22 18:46
10629888019	MW-22	Water	10/12/22 09:48	10/14/22 18:46
10629888020	Trip Blank	Water	10/13/22 00:00	10/14/22 18:46

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10629888001	PZ-2/T66	EPA 8260D	PAB	11	PASI-M
10629888002	PZ-3D	EPA 8260D	TKL	11	PASI-M
10629888003	PZ-8R	EPA 8260D	TKL	11	PASI-M
10629888004	MW-11	EPA 8260D	TKL	11	PASI-M
10629888005	PZ-11	EPA 8260D	TKL	11	PASI-M
10629888006	MW-12	EPA 8260D	TKL	11	PASI-M
10629888007	MW-13	EPA 8260D	TKL	11	PASI-M
10629888008	PZ-13	EPA 8260D	TKL	11	PASI-M
10629888009	MW-14	EPA 8260D	PAB	11	PASI-M
10629888010	MW-15	EPA 8260D	PAB	11	PASI-M
10629888011	MW-16	EPA 8260D	PAB	11	PASI-M
10629888012	PZ-16	EPA 8260D	PAB	11	PASI-M
10629888013	MW-17	EPA 8260D	PAB	11	PASI-M
10629888014	PZ-17	EPA 8260D	PAB	11	PASI-M
10629888015	MW-18	EPA 8260D	PAB	11	PASI-M
10629888016	MW-20	EPA 8260D	PAB	11	PASI-M
10629888017	MW-21	EPA 8260D	PAB	11	PASI-M
10629888018	PZ-21	EPA 8260D	PAB	11	PASI-M
10629888019	MW-22	EPA 8260D	PAB	11	PASI-M
10629888020	Trip Blank	EPA 8260D	PAB	11	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-2/T66 **Lab ID: 10629888001** Collected: 10/13/22 09:10 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:39	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:39	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 03:39	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 03:39	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:39	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 03:39	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:39	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 03:39	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 03:39	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 03:39	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 03:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-3D **Lab ID: 10629888002** Collected: 10/12/22 13:33 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:28	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:28	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 20:28	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 20:28	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:28	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 20:28	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:28	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 20:28	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1		10/17/22 20:28	2199-69-1	
4-Bromofluorobenzene (S)	98	%	75-125		1		10/17/22 20:28	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/17/22 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-8R **Lab ID: 10629888003** Collected: 10/12/22 12:15 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:44	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:44	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 20:44	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 20:44	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:44	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 20:44	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:44	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 20:44	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/17/22 20:44	2199-69-1	
4-Bromofluorobenzene (S)	96	%	75-125		1		10/17/22 20:44	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		10/17/22 20:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-11 **Lab ID: 10629888004** Collected: 10/12/22 10:48 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:59	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:59	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 20:59	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 20:59	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 20:59	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 20:59	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 20:59	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 20:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/17/22 20:59	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/17/22 20:59	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/17/22 20:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-11 **Lab ID: 10629888005** Collected: 10/12/22 10:43 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:14	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:14	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 21:14	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 21:14	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:14	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 21:14	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:14	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 21:14	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/17/22 21:14	2199-69-1	
4-Bromofluorobenzene (S)	98	%	75-125		1		10/17/22 21:14	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/17/22 21:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-12 **Lab ID: 10629888006** Collected: 10/12/22 11:05 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:30	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:30	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 21:30	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 21:30	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:30	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 21:30	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:30	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 21:30	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/17/22 21:30	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		10/17/22 21:30	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/17/22 21:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-13 **Lab ID: 10629888007** Collected: 10/12/22 11:21 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:45	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:45	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 21:45	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 21:45	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 21:45	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 21:45	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 21:45	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 21:45	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/17/22 21:45	2199-69-1	
4-Bromofluorobenzene (S)	95	%	75-125		1		10/17/22 21:45	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/17/22 21:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-13 **Lab ID: 10629888008** Collected: 10/12/22 11:15 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/17/22 22:01	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 22:01	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/17/22 22:01	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/17/22 22:01	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/17/22 22:01	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/17/22 22:01	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/17/22 22:01	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/17/22 22:01	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/17/22 22:01	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		10/17/22 22:01	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/17/22 22:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-14 **Lab ID: 10629888009** Collected: 10/12/22 11:44 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 01:34	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 01:34	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 01:34	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 01:34	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 01:34	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 01:34	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 01:34	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 01:34	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1		10/19/22 01:34	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		10/19/22 01:34	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-15 **Lab ID: 10629888010** Collected: 10/12/22 12:59 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 01:49	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 01:49	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 01:49	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 01:49	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 01:49	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 01:49	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 01:49	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 01:49	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1		10/19/22 01:49	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 01:49	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 01:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-16 **Lab ID: 10629888011** Collected: 10/12/22 14:04 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:05	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:05	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 02:05	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 02:05	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:05	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 02:05	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:05	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 02:05	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/19/22 02:05	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 02:05	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 02:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-16 **Lab ID: 10629888012** Collected: 10/12/22 14:40 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:21	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:21	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 02:21	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 02:21	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:21	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 02:21	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:21	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 02:21	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1		10/19/22 02:21	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 02:21	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 02:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-17 **Lab ID: 10629888013** Collected: 10/13/22 08:43 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:55	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:55	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 03:55	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 03:55	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:55	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 03:55	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:55	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 03:55	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		1		10/19/22 03:55	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 03:55	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 03:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-17 **Lab ID: 10629888014** Collected: 10/13/22 08:34 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 04:10	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 04:10	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 04:10	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 04:10	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 04:10	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 04:10	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 04:10	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 04:10	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/19/22 04:10	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 04:10	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/19/22 04:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-18 **Lab ID: 10629888015** Collected: 10/13/22 08:57 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 04:26	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 04:26	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 04:26	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 04:26	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 04:26	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 04:26	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 04:26	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 04:26	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		10/19/22 04:26	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 04:26	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 04:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-20 **Lab ID: 10629888016** Collected: 10/12/22 10:15 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:36	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:36	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 02:36	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 02:36	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:36	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 02:36	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:36	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 02:36	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 02:36	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 02:36	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 02:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-21 **Lab ID: 10629888017** Collected: 10/12/22 09:58 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:52	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:52	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 02:52	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 02:52	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 02:52	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 02:52	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 02:52	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 02:52	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 02:52	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 02:52	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 02:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: PZ-21 **Lab ID: 10629888018** Collected: 10/12/22 10:04 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:08	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:08	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 03:08	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 03:08	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:08	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 03:08	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:08	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 03:08	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 03:08	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 03:08	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 03:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: MW-22 **Lab ID: 10629888019** Collected: 10/12/22 09:48 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:23	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:23	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 03:23	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 03:23	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 03:23	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 03:23	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 03:23	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 03:23	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		10/19/22 03:23	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 03:23	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 03:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Sample: Trip Blank **Lab ID: 10629888020** Collected: 10/13/22 00:00 Received: 10/14/22 18:46 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 00:31	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 00:31	100-41-4	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 00:31	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 00:31	91-20-3	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 00:31	108-88-3	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 00:31	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 00:31	108-67-8	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 00:31	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		10/19/22 00:31	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 00:31	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 00:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

QC Batch:	847393	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629888002, 10629888003, 10629888004, 10629888005, 10629888006, 10629888007, 10629888008

METHOD BLANK:	4483286	Matrix:	Water
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Associated Lab Samples: 10629888002, 10629888003, 10629888004, 10629888005, 10629888006, 10629888007, 10629888008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	10/17/22 19:57	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	10/17/22 19:57	
Benzene	ug/L	<0.10	1.0	10/17/22 19:57	
Ethylbenzene	ug/L	<0.11	1.0	10/17/22 19:57	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	10/17/22 19:57	
Naphthalene	ug/L	<0.18	1.0	10/17/22 19:57	
Toluene	ug/L	<0.10	1.0	10/17/22 19:57	
Xylene (Total)	ug/L	<0.20	3.0	10/17/22 19:57	
1,2-Dichlorobenzene-d4 (S)	%	98	75-125	10/17/22 19:57	
4-Bromofluorobenzene (S)	%	100	75-125	10/17/22 19:57	
Toluene-d8 (S)	%	101	75-125	10/17/22 19:57	

LABORATORY CONTROL SAMPLE: 4483287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.3	91	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.1	90	75-125	
Benzene	ug/L	20	16.6	83	73-125	
Ethylbenzene	ug/L	20	17.7	89	75-125	
Methyl-tert-butyl ether	ug/L	20	17.3	86	75-125	
Naphthalene	ug/L	20	18.6	93	66-127	
Toluene	ug/L	20	16.6	83	74-125	
Xylene (Total)	ug/L	60	52.7	88	72-125	
1,2-Dichlorobenzene-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4483288 4483289

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10629888004 Result	Spike Conc.	Spike Conc.	MS Result								
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	22.1	23.7	110	118	62-138	7	30		
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	22.2	22.9	111	115	64-135	3	30		
Benzene	ug/L	<0.10	20	20	21.9	22.5	110	112	65-140	3	30		
Ethylbenzene	ug/L	<0.11	20	20	22.1	23.3	111	116	66-126	5	30		
Methyl-tert-butyl ether	ug/L	<0.13	20	20	20.7	21.8	104	109	65-137	5	30		
Naphthalene	ug/L	<0.18	20	20	21.6	22.5	108	113	56-141	4	30		

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Parameter	Units	4483288		4483289		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10629888004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Toluene	ug/L	<0.10	20	20	22.5	23.1	113	116	69-131	3	30	
Xylene (Total)	ug/L	<0.20	60	60	66.1	68.6	110	114	68-136	4	30	
1,2-Dichlorobenzene-d4 (S)	%						98	97	75-125			
4-Bromofluorobenzene (S)	%						101	103	75-125			
Toluene-d8 (S)	%						102	100	75-125			

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

QC Batch:	847662	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629888001, 10629888009, 10629888010, 10629888011, 10629888012, 10629888013, 10629888014, 10629888015, 10629888016, 10629888017, 10629888018, 10629888019, 10629888020

METHOD BLANK: 4484588 Matrix: Water
Associated Lab Samples: 10629888001, 10629888009, 10629888010, 10629888011, 10629888012, 10629888013, 10629888014, 10629888015, 10629888016, 10629888017, 10629888018, 10629888019, 10629888020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	10/19/22 00:16	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	10/19/22 00:16	
Benzene	ug/L	<0.10	1.0	10/19/22 00:16	
Ethylbenzene	ug/L	<0.11	1.0	10/19/22 00:16	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	10/19/22 00:16	
Naphthalene	ug/L	<0.18	1.0	10/19/22 00:16	
Toluene	ug/L	<0.10	1.0	10/19/22 00:16	
Xylene (Total)	ug/L	<0.20	3.0	10/19/22 00:16	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125	10/19/22 00:16	
4-Bromofluorobenzene (S)	%	100	75-125	10/19/22 00:16	
Toluene-d8 (S)	%	99	75-125	10/19/22 00:16	

LABORATORY CONTROL SAMPLE: 4484589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.7	104	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.1	105	75-125	
Benzene	ug/L	20	19.2	96	73-125	
Ethylbenzene	ug/L	20	20.3	102	75-125	
Methyl-tert-butyl ether	ug/L	20	19.5	98	75-125	
Naphthalene	ug/L	20	18.5	92	66-127	
Toluene	ug/L	20	18.7	93	74-125	
Xylene (Total)	ug/L	60	61.4	102	72-125	
1,2-Dichlorobenzene-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4484638 4484639

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10629980003 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trimethylbenzene	ug/L	23.1	100	100	124	126	101	103	62-138	1	30		
1,3,5-Trimethylbenzene	ug/L	7.8	100	100	108	111	100	103	64-135	3	30		
Benzene	ug/L	415	100	100	496	492	81	77	65-140	1	30		
Ethylbenzene	ug/L	31.5	100	100	132	131	100	100	66-126	0	30		
Methyl-tert-butyl ether	ug/L	<0.63	100	100	98.0	96.4	98	96	65-137	2	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4484638 4484639												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10629980003 Result	Spike Conc.	Spike Conc.	MS Result							
Naphthalene	ug/L	16.5	100	100	111	115	94	98	56-141	3	30	
Toluene	ug/L	9.0	100	100	104	104	95	95	69-131	0	30	
Xylene (Total)	ug/L	39.0	300	300	344	340	102	100	68-136	1	30	
1,2-Dichlorobenzene-d4 (S)	%						97	97	75-125			
4-Bromofluorobenzene (S)	%						103	101	75-125			
Toluene-d8 (S)	%						100	100	75-125			

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QUALIFIERS

Project: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

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: 49161494.02 100 102 SRC GW ERP

Pace Project No.: 10629888

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10629888001	PZ-2/T66	EPA 8260D	847662		
10629888002	PZ-3D	EPA 8260D	847393		
10629888003	PZ-8R	EPA 8260D	847393		
10629888004	MW-11	EPA 8260D	847393		
10629888005	PZ-11	EPA 8260D	847393		
10629888006	MW-12	EPA 8260D	847393		
10629888007	MW-13	EPA 8260D	847393		
10629888008	PZ-13	EPA 8260D	847393		
10629888009	MW-14	EPA 8260D	847662		
10629888010	MW-15	EPA 8260D	847662		
10629888011	MW-16	EPA 8260D	847662		
10629888012	PZ-16	EPA 8260D	847662		
10629888013	MW-17	EPA 8260D	847662		
10629888014	PZ-17	EPA 8260D	847662		
10629888015	MW-18	EPA 8260D	847662		
10629888016	MW-20	EPA 8260D	847662		
10629888017	MW-21	EPA 8260D	847662		
10629888018	PZ-21	EPA 8260D	847662		
10629888019	MW-22	EPA 8260D	847662		
10629888020	Trip Blank	EPA 8260D	847662		

REPORT OF LABORATORY ANALYSIS

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Barr Engineering Co. Chain of Custody

Sample Origination State

CO MI MN MO ND NV TX UT WI WY Other: _____

REPORT TO	INVOICE TO
Company: <u>Barr Engineering Co</u>	Company: <u>Barr</u>
Address: <u>325 South Lake Ave</u>	Address:
Address: <u>Duluth, MN 55802</u>	Address:
Name: <u>Lynette Carney</u>	Name:
email: <u>Lcarney@barr.com</u>	email:
Copy to: <u>BarrDM@barr.com</u>	P.O.
Project Name: <u>SRC GW sampling ERP</u>	Barr Project No: <u>49161494.02 100 102</u>

Analysis Requested		COC Number: № 591432
Water	Soil	COC <u>1</u> of <u>2</u>

WO# : 10629888



** = Unspecified G = NaHSO₄
 S = Soil/Solid H = Na₂S₂O₃
 SD = Sediment I = Ascorbic Acid
 SQ = MeOH blank J = Zn Acetate
 OTH = Other (Oil, etc.) K = Other

Location	Sample Depth			Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD Y / N	Total Number Of Containers	Analysis Requested	% Solids	Preservative Code	Field Filtered Y/N
	Start	Stop	Unit (m./ft. or in.)									
1. PZ-2 / Tibb				10/13/2022	910	GW	N	3	X			001
2. PZ-3D				10/12/2022	1333	GW	N	3	X			02
3. PZ-8R					1215	GW	N	3	X			03
4. mw-11					1048	GW	N	3	X			04
5. PZ-11					1043	GW	N	3	X			05
6. mw-12					1105	GW	N	3	X			06
7. mw-13					1121	GW	N	3	X			07
8. PZ-13					1115	GW	N	3	X			08
9. mw-14					1144	GW	N	3	X			09
10. mw-15					1259	GW	N	3	X			10

BARR USE ONLY		Relinquished by: <u>K. Schneider</u>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>10/13/2022</u>	Time: <u>955</u>	Received by: <u>user jee</u>	Date: <u>10/13/22</u>	Time: <u>0955</u>
Sampled by: <u>KLS3</u>	Relinquished by: <u>user jee</u>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>10/13/22</u>	Time: <u>1126</u>	Received by: <u>KBDM / Pace</u>	Date: <u>10/14/22</u>	Time: <u>1846</u>	
Barr Proj. Manager: <u>ZMC</u>	Samples Shipped VIA: <input type="checkbox"/> Ground Courier <input type="checkbox"/> Air Carrier	Air Bill Number: <u>41.5</u>		Requested Due Date: <input checked="" type="checkbox"/> Standard Turn Around Time				
Barr DQ Manager: <u>JET</u>	<input type="checkbox"/> Sampler <input type="checkbox"/> Other: _____	Temperature on Receipt (°C): <u>3.5</u>		Custody Seal Intact? <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> None		<input type="checkbox"/> Rush _____ (mm/dd/yyyy)		
Lab Name: <u>Pace</u>	Lab WO: _____							
Lab Location: <u>Minneapolis, MN</u>								

H:RLG\STD\FORMS\Chain of Custody Form 2015 RLG Rev. 01/30/2020

Effective Date:

Sample Condition Upon Receipt
 Client Name: **Barr Engineering**

Project #: **WO# : 10629888**
 PM: MKH Due Date: 10/31/22
 CLIENT: BARR

Courier: FedEx UPS USPS Client
 Pace SpeedDee Commercial

See Exceptions
 ENV-FRM-MIN4-0142

Tracking Number: _____
 Custody Seal on Cooler/Box Present? Yes No
 Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: T1 (0461) T2 (1336) T3 (0459) T4 (0254) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) 01339252/1710

Biological Tissue Frozen? Yes No N/A
 Temp Blank? Yes No
 Type of Ice: Wet Blue Dry None
 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: 1.3 °C
 Average Corrected Temp (no temp blank only): _____ °C
 Correction Factor: +0.2 Cooler Temp Corrected w/temp blank: 1.5 °C
 See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: (N/A, water sample other: _____) Date/Initials of Person Examining Contents: KB 10/15/22
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ 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 (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one):	Duluth	<input checked="" type="checkbox"/> Minneapolis	Virginia	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. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
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 Chrom <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 Sample Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	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? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
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"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Exceptions: <u>VOA</u> Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
Extra labels present on soil VOA or WIDRO containers?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
3 Trip Blanks Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
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>389258(2)</u>

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____
 Project Manager Review: _____ Date: 10/17/22

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: [Signature] Line: [Signature]

October 27, 2022

Jim Taraldsen
Barr Engineering Company
325 S Lake Ave
Duluth, MN 55802

RE: Project: 49161494.02 100 102 SRC GW GEM
Pace Project No.: 10629409

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2022. 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,



Martha Hansen
martha.hansen@pacelabs.com
(612)607-6451
Project Manager

Enclosures

cc: Barr DM, Barr Engineering
Accounts Payable, Barr Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

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

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 Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 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 (A2LA) #: R-036

North Dakota Certification (MN) #: 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 ().

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SAMPLE SUMMARY

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10629409001	MW-1	Water	10/12/22 13:11	10/12/22 15:42
10629409002	MW-2	Water	10/12/22 13:52	10/12/22 15:42
10629409003	MW-3D	Water	10/12/22 14:27	10/12/22 15:42
10629409004	MW-8R	Water	10/12/22 12:05	10/12/22 15:42
10629409005	MW-9B	Water	10/12/22 14:53	10/12/22 15:42
10629409006	Trip Blank	Water	10/12/22 00:00	10/12/22 15:42

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10629409001	MW-1	EPA 200.7	IP	4	PASI-M
		EPA 8260D	NMB	72	PASI-M
		SM 2320B	AB3	1	PASI-M
10629409002	MW-2	EPA 200.7	IP	4	PASI-M
		EPA 8260D	NMB	72	PASI-M
		SM 2320B	AB3	1	PASI-M
10629409003	MW-3D	EPA 200.7	IP	4	PASI-M
		EPA 8260D	NMB	72	PASI-M
		SM 2320B	AB3	1	PASI-M
10629409004	MW-8R	EPA 200.7	IP	4	PASI-M
		EPA 8260D	NMB	72	PASI-M
		SM 2320B	AB3	1	PASI-M
10629409005	MW-9B	EPA 200.7	IP	4	PASI-M
		EPA 8260D	NMB	72	PASI-M
		SM 2320B	AB3	1	PASI-M
10629409006	Trip Blank	EPA 8260D	NMB	72	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Date: October 27, 2022

Case Narrative

Volatile Organics

8260D VOA

Batch 847600

Recovery for dichlorodifluoromethane in the continuing calibration verification was outside of laboratory control limits at 123% recovery (limits 80-120%). Reported values may be biased high.

Recovery for bromomethane in the continuing calibration verification was outside of laboratory control limits at 144% recovery (limits 80-120%). Reported values may be biased high.

Recovery for acetone in the continuing calibration verification was outside of laboratory control limits at 132% recovery (limits 80-120%). Reported values may be biased high.

Recovery for tetrahydrofuran in the continuing calibration verification was outside of laboratory control limits at 140% recovery (limits 80-120%). Reported values may be biased high.

Recovery for 4-methyl-2-pentanone (MIBK) in the continuing calibration verification was outside of laboratory control limits at 123% recovery (limits 80-120%). Reported values may be biased high.

Recovery for bromoform in the continuing calibration verification was outside of laboratory control limits at 135% recovery (limits 80-120%). Reported values may be biased high.

Batch 847898

Recovery for bromomethane in the continuing calibration verification was outside of laboratory control limits at 122% recovery (limits 80-120%). The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard . Reported values may be biased high.

Recovery for tetrahydrofuran in the continuing calibration verification was outside of laboratory control limits at 122% recovery (limits 80-120%). The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard . Reported values may be biased high.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Date: October 27, 2022

Batch 847958

Recovery for bromomethane in the continuing calibration verification was outside of laboratory control limits at 122% recovery (limits 80-120%). The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard . Reported values may be biased high.

Recovery for tetrahydrofuran in the continuing calibration verification was outside of laboratory control limits at 122% recovery (limits 80-120%). The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard . Reported values may be biased high.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-1 Lab ID: 10629409001 Collected: 10/12/22 13:11 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Minneapolis									
Calcium, Dissolved	40800	ug/L	500	97.2	1	10/17/22 12:13	10/18/22 11:52	7440-70-2	
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	10/17/22 12:13	10/18/22 11:52	7439-92-1	
Magnesium, Dissolved	40700	ug/L	500	28.7	1	10/17/22 12:13	10/18/22 11:52	7439-95-4	
Total Hardness by 2340B, Dissolved	270000	ug/L	3300	361	1	10/17/22 12:13	10/18/22 11:52		
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/18/22 18:55	67-64-1	L1
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/18/22 18:55	107-05-1	
Benzene	0.14J	ug/L	1.0	0.10	1		10/18/22 18:55	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/18/22 18:55	75-25-2	L1
Bromomethane	0.95J	ug/L	2.5	0.38	1		10/18/22 18:55	74-83-9	B,L1
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/18/22 18:55	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/18/22 18:55	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/18/22 18:55	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/18/22 18:55	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/18/22 18:55	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/18/22 18:55	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/18/22 18:55	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/18/22 18:55	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/18/22 18:55	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/18/22 18:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/18/22 18:55	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/18/22 18:55	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/18/22 18:55	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/18/22 18:55	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/18/22 18:55	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/18/22 18:55	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/18/22 18:55	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	563-58-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-1 **Lab ID: 10629409001** Collected: 10/12/22 13:11 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/18/22 18:55	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/18/22 18:55	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 18:55	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/18/22 18:55	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/18/22 18:55	99-87-6	
Methylene Chloride	<0.33	ug/L	1.0	0.33	1		10/18/22 18:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/18/22 18:55	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/18/22 18:55	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 18:55	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/18/22 18:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/18/22 18:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/18/22 18:55	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/18/22 18:55	109-99-9	L1
Toluene	<0.10	ug/L	1.0	0.10	1		10/18/22 18:55	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/18/22 18:55	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/18/22 18:55	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 18:55	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/18/22 18:55	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 18:55	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 18:55	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 18:55	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/18/22 18:55	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/18/22 18:55	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/18/22 18:55	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/18/22 18:55	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		10/18/22 18:55	2199-69-1	
4-Bromofluorobenzene (S)	98	%	75-125		1		10/18/22 18:55	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/18/22 18:55	2037-26-5	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	364	mg/L	5.0	2.4	1		10/26/22 13:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-2 **Lab ID: 10629409002** Collected: 10/12/22 13:52 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Minneapolis									
Calcium, Dissolved	50900	ug/L	500	97.2	1	10/17/22 12:13	10/18/22 11:55	7440-70-2	
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	10/17/22 12:13	10/18/22 11:55	7439-92-1	
Magnesium, Dissolved	57400	ug/L	500	28.7	1	10/17/22 12:13	10/18/22 11:55	7439-95-4	
Total Hardness by 2340B, Dissolved	364000	ug/L	3300	361	1	10/17/22 12:13	10/18/22 11:55		
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/18/22 19:11	67-64-1	L1
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/18/22 19:11	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:11	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/18/22 19:11	75-25-2	L1
Bromomethane	0.79J	ug/L	2.5	0.38	1		10/18/22 19:11	74-83-9	B,L1
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/18/22 19:11	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/18/22 19:11	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/18/22 19:11	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/18/22 19:11	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/18/22 19:11	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/18/22 19:11	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:11	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/18/22 19:11	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/18/22 19:11	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/18/22 19:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/18/22 19:11	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:11	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/18/22 19:11	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/18/22 19:11	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:11	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/18/22 19:11	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/18/22 19:11	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	563-58-6	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-2 **Lab ID: 10629409002** Collected: 10/12/22 13:52 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/18/22 19:11	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/18/22 19:11	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:11	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/18/22 19:11	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:11	99-87-6	
Methylene Chloride	<0.33	ug/L	1.0	0.33	1		10/18/22 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/18/22 19:11	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/18/22 19:11	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:11	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/18/22 19:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/18/22 19:11	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:11	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/18/22 19:11	109-99-9	L1
Toluene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:11	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/18/22 19:11	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/18/22 19:11	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:11	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/18/22 19:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:11	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:11	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:11	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/18/22 19:11	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/18/22 19:11	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/18/22 19:11	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/18/22 19:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	75-125		1		10/18/22 19:11	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/18/22 19:11	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/18/22 19:11	2037-26-5	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	436	mg/L	5.0	2.4	1		10/26/22 13:27		

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-3D **Lab ID: 10629409003** Collected: 10/12/22 14:27 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Minneapolis									
Calcium, Dissolved	53900	ug/L	500	97.2	1	10/17/22 12:13	10/18/22 11:57	7440-70-2	
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	10/17/22 12:13	10/18/22 11:57	7439-92-1	
Magnesium, Dissolved	37700	ug/L	500	28.7	1	10/17/22 12:13	10/18/22 11:57	7439-95-4	
Total Hardness by 2340B, Dissolved	290000	ug/L	3300	361	1	10/17/22 12:13	10/18/22 11:57		
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/18/22 19:26	67-64-1	L1
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/18/22 19:26	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:26	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/18/22 19:26	75-25-2	L1
Bromomethane	0.76J	ug/L	2.5	0.38	1		10/18/22 19:26	74-83-9	B,L1
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/18/22 19:26	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/18/22 19:26	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/18/22 19:26	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/18/22 19:26	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/18/22 19:26	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/18/22 19:26	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:26	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/18/22 19:26	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/18/22 19:26	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/18/22 19:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/18/22 19:26	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:26	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/18/22 19:26	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/18/22 19:26	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/18/22 19:26	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/18/22 19:26	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/18/22 19:26	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	563-58-6	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-3D **Lab ID: 10629409003** Collected: 10/12/22 14:27 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/18/22 19:26	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/18/22 19:26	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:26	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/18/22 19:26	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:26	99-87-6	
Methylene Chloride	<0.33	ug/L	1.0	0.33	1		10/18/22 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/18/22 19:26	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/18/22 19:26	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:26	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/18/22 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/18/22 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:26	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/18/22 19:26	109-99-9	L1
Toluene	<0.10	ug/L	1.0	0.10	1		10/18/22 19:26	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/18/22 19:26	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/18/22 19:26	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/18/22 19:26	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/18/22 19:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/18/22 19:26	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/18/22 19:26	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/18/22 19:26	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/18/22 19:26	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/18/22 19:26	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/18/22 19:26	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/18/22 19:26	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/18/22 19:26	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/18/22 19:26	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		10/18/22 19:26	2037-26-5	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	267	mg/L	5.0	2.4	1		10/26/22 13:32		

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-8R Lab ID: 10629409004 Collected: 10/12/22 12:05 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Minneapolis									
Calcium, Dissolved	112000	ug/L	500	97.2	1	10/17/22 12:13	10/18/22 11:58	7440-70-2	
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	10/17/22 12:13	10/18/22 11:58	7439-92-1	
Magnesium, Dissolved	74900	ug/L	500	28.7	1	10/17/22 12:13	10/18/22 11:58	7439-95-4	
Total Hardness by 2340B, Dissolved	589000	ug/L	3300	361	1	10/17/22 12:13	10/18/22 11:58		
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/19/22 20:47	67-64-1	
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/19/22 20:47	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 20:47	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/19/22 20:47	75-25-2	
Bromomethane	0.88J	ug/L	2.5	0.38	1		10/19/22 20:47	74-83-9	B,L1
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/19/22 20:47	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/19/22 20:47	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/19/22 20:47	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/19/22 20:47	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/19/22 20:47	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/19/22 20:47	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/19/22 20:47	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/19/22 20:47	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/19/22 20:47	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/19/22 20:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/19/22 20:47	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/19/22 20:47	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/19/22 20:47	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/19/22 20:47	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/19/22 20:47	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/19/22 20:47	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/19/22 20:47	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	563-58-6	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-8R **Lab ID: 10629409004** Collected: 10/12/22 12:05 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/19/22 20:47	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/19/22 20:47	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 20:47	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/19/22 20:47	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/19/22 20:47	99-87-6	
Methylene Chloride	<0.33	ug/L	1.0	0.33	1		10/19/22 20:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/19/22 20:47	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 20:47	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 20:47	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/19/22 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/19/22 20:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/19/22 20:47	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/19/22 20:47	109-99-9	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 20:47	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/19/22 20:47	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/19/22 20:47	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 20:47	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/19/22 20:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 20:47	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 20:47	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 20:47	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/19/22 20:47	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 20:47	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/19/22 20:47	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/19/22 20:47	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 20:47	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/19/22 20:47	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		10/19/22 20:47	2037-26-5	

2320B Alkalinity

Analytical Method: SM 2320B

Pace Analytical Services - Minneapolis

Alkalinity, Total as CaCO3	619	mg/L	5.0	2.4	1		10/26/22 13:37		
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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: **MW-9B** Lab ID: **10629409005** Collected: 10/12/22 14:53 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Dissolved									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Minneapolis									
Calcium, Dissolved	41100	ug/L	500	97.2	1	10/17/22 12:13	10/18/22 12:00	7440-70-2	
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	10/17/22 12:13	10/18/22 12:00	7439-92-1	
Magnesium, Dissolved	59300	ug/L	500	28.7	1	10/17/22 12:13	10/18/22 12:00	7439-95-4	
Total Hardness by 2340B, Dissolved	347000	ug/L	3300	361	1	10/17/22 12:13	10/18/22 12:00		
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/19/22 21:02	67-64-1	
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/19/22 21:02	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 21:02	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/19/22 21:02	75-25-2	
Bromomethane	0.50J	ug/L	2.5	0.38	1		10/19/22 21:02	74-83-9	B,L1
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/19/22 21:02	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/19/22 21:02	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/19/22 21:02	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/19/22 21:02	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/19/22 21:02	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/19/22 21:02	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/19/22 21:02	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/19/22 21:02	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/19/22 21:02	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/19/22 21:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/19/22 21:02	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/19/22 21:02	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/19/22 21:02	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/19/22 21:02	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/19/22 21:02	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/19/22 21:02	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/19/22 21:02	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	563-58-6	

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: MW-9B **Lab ID: 10629409005** Collected: 10/12/22 14:53 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/19/22 21:02	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/19/22 21:02	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 21:02	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/19/22 21:02	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/19/22 21:02	99-87-6	
Methylene Chloride	<0.33	ug/L	1.0	0.33	1		10/19/22 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/19/22 21:02	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 21:02	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 21:02	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/19/22 21:02	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/19/22 21:02	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/19/22 21:02	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/19/22 21:02	109-99-9	
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 21:02	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/19/22 21:02	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/19/22 21:02	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 21:02	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/19/22 21:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 21:02	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 21:02	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 21:02	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/19/22 21:02	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 21:02	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/19/22 21:02	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/19/22 21:02	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		10/19/22 21:02	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/19/22 21:02	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/19/22 21:02	2037-26-5	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	424	mg/L	5.0	2.4	1		10/26/22 13:54		

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: Trip Blank Lab ID: 10629409006 Collected: 10/12/22 00:00 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<1.9	ug/L	10.0	1.9	1		10/19/22 22:20	67-64-1	
Allyl chloride	<0.15	ug/L	2.5	0.15	1		10/19/22 22:20	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		10/19/22 22:20	71-43-2	
Bromobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	108-86-1	
Bromochloromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	74-97-5	
Bromodichloromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	75-27-4	
Bromoform	<0.22	ug/L	1.0	0.22	1		10/19/22 22:20	75-25-2	
Bromomethane	0.46J	ug/L	2.5	0.38	1		10/19/22 22:20	74-83-9	B
2-Butanone (MEK)	<0.93	ug/L	10.0	0.93	1		10/19/22 22:20	78-93-3	
n-Butylbenzene	<0.096	ug/L	1.0	0.096	1		10/19/22 22:20	104-51-8	
sec-Butylbenzene	<0.097	ug/L	1.0	0.097	1		10/19/22 22:20	135-98-8	
tert-Butylbenzene	<0.091	ug/L	1.0	0.091	1		10/19/22 22:20	98-06-6	
Carbon tetrachloride	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	56-23-5	
Chlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	108-90-7	
Chloroethane	<0.21	ug/L	1.0	0.21	1		10/19/22 22:20	75-00-3	
Chloroform	<0.23	ug/L	1.0	0.23	1		10/19/22 22:20	67-66-3	
Chloromethane	<0.17	ug/L	1.0	0.17	1		10/19/22 22:20	74-87-3	
2-Chlorotoluene	<0.098	ug/L	1.0	0.098	1		10/19/22 22:20	95-49-8	
4-Chlorotoluene	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	106-43-4	
1,2-Dibromo-3-chloropropane	<0.36	ug/L	2.5	0.36	1		10/19/22 22:20	96-12-8	
Dibromochloromethane	<0.20	ug/L	1.0	0.20	1		10/19/22 22:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.20	ug/L	1.0	0.20	1		10/19/22 22:20	106-93-4	
Dibromomethane	<0.17	ug/L	1.0	0.17	1		10/19/22 22:20	74-95-3	
1,2-Dichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	541-73-1	
1,4-Dichlorobenzene	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	106-46-7	
Dichlorodifluoromethane	<0.079	ug/L	1.0	0.079	1		10/19/22 22:20	75-71-8	
1,1-Dichloroethane	<0.11	ug/L	1.0	0.11	1		10/19/22 22:20	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/19/22 22:20	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	75-35-4	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/L	1.0	0.14	1		10/19/22 22:20	156-60-5	
Dichlorofluoromethane	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	75-43-4	
1,2-Dichloropropane	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	78-87-5	
1,3-Dichloropropane	<0.16	ug/L	1.0	0.16	1		10/19/22 22:20	142-28-9	
2,2-Dichloropropane	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	594-20-7	
1,1-Dichloropropene	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	563-58-6	
cis-1,3-Dichloropropene	<0.057	ug/L	1.0	0.057	1		10/19/22 22:20	10061-01-5	
trans-1,3-Dichloropropene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	10061-02-6	
Diethyl ether (Ethyl ether)	<0.19	ug/L	2.5	0.19	1		10/19/22 22:20	60-29-7	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 22:20	100-41-4	
Hexachloro-1,3-butadiene	<0.24	ug/L	1.0	0.24	1		10/19/22 22:20	87-68-3	
Isopropylbenzene (Cumene)	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	98-82-8	
p-Isopropyltoluene	<0.11	ug/L	1.0	0.11	1		10/19/22 22:20	99-87-6	
Methylene Chloride	0.69J	ug/L	1.0	0.33	1		10/19/22 22:20	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Sample: Trip Blank **Lab ID: 10629409006** Collected: 10/12/22 00:00 Received: 10/12/22 15:42 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.80	ug/L	10.0	0.80	1		10/19/22 22:20	108-10-1	
Methyl-tert-butyl ether	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	1634-04-4	
Naphthalene	<0.18	ug/L	1.0	0.18	1		10/19/22 22:20	91-20-3	
n-Propylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 22:20	103-65-1	
Styrene	<0.097	ug/L	1.0	0.097	1		10/19/22 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.19	ug/L	1.0	0.19	1		10/19/22 22:20	630-20-6	
1,1,2,2-Tetrachloroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		10/19/22 22:20	127-18-4	
Tetrahydrofuran	<1.4	ug/L	10.0	1.4	1		10/19/22 22:20	109-99-9	L1
Toluene	<0.10	ug/L	1.0	0.10	1		10/19/22 22:20	108-88-3	
1,2,3-Trichlorobenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	87-61-6	
1,2,4-Trichlorobenzene	<0.14	ug/L	1.0	0.14	1		10/19/22 22:20	120-82-1	
1,1,1-Trichloroethane	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	71-55-6	
1,1,2-Trichloroethane	<0.22	ug/L	1.0	0.22	1		10/19/22 22:20	79-00-5	
Trichloroethene	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	1.0	0.12	1		10/19/22 22:20	75-69-4	
1,2,3-Trichloropropane	<0.38	ug/L	2.5	0.38	1		10/19/22 22:20	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.15	ug/L	1.0	0.15	1		10/19/22 22:20	76-13-1	
1,2,4-Trimethylbenzene	<0.13	ug/L	1.0	0.13	1		10/19/22 22:20	95-63-6	
1,3,5-Trimethylbenzene	<0.11	ug/L	1.0	0.11	1		10/19/22 22:20	108-67-8	
Vinyl chloride	<0.046	ug/L	1.0	0.046	1		10/19/22 22:20	75-01-4	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		10/19/22 22:20	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		10/19/22 22:20	179601-23-1	
o-Xylene	<0.18	ug/L	1.0	0.18	1		10/19/22 22:20	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		10/19/22 22:20	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		10/19/22 22:20	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		10/19/22 22:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM
Pace Project No.: 10629409

QC Batch: 847135 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10629409001, 10629409002, 10629409003, 10629409004, 10629409005

METHOD BLANK: 4482541 Matrix: Water
Associated Lab Samples: 10629409001, 10629409002, 10629409003, 10629409004, 10629409005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	<97.2	500	10/18/22 11:25	
Lead, Dissolved	ug/L	<2.6	10.0	10/18/22 11:25	
Magnesium, Dissolved	ug/L	<28.7	500	10/18/22 11:25	

LABORATORY CONTROL SAMPLE: 4482542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	20000	19600	98	85-115	
Lead, Dissolved	ug/L	1000	986	99	85-115	
Magnesium, Dissolved	ug/L	20000	19800	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4482543 4482544

Parameter	Units	10629347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	18500	20000	20000	39500	38600	105	101	70-130	2	20	
Lead, Dissolved	ug/L	<2.6	1000	1000	992	965	99	97	70-130	3	20	
Magnesium, Dissolved	ug/L	2640	20000	20000	23100	22400	102	99	70-130	3	20	

MATRIX SPIKE SAMPLE: 4482545

Parameter	Units	10629409001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	40800	20000	61300	102	70-130	
Lead, Dissolved	ug/L	<2.6	1000	970	97	70-130	
Magnesium, Dissolved	ug/L	40700	20000	61900	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

QC Batch: 847600

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV 465 W

Laboratory:

Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629409001, 10629409002, 10629409003

METHOD BLANK: 4484223

Matrix: Water

Associated Lab Samples: 10629409001, 10629409002, 10629409003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.19	1.0	10/18/22 13:00	
1,1,1-Trichloroethane	ug/L	<0.12	1.0	10/18/22 13:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	1.0	10/18/22 13:00	
1,1,2-Trichloroethane	ug/L	<0.22	1.0	10/18/22 13:00	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.15	1.0	10/18/22 13:00	
1,1-Dichloroethane	ug/L	<0.11	1.0	10/18/22 13:00	
1,1-Dichloroethene	ug/L	<0.13	1.0	10/18/22 13:00	
1,1-Dichloropropene	ug/L	<0.12	1.0	10/18/22 13:00	
1,2,3-Trichlorobenzene	ug/L	<0.13	1.0	10/18/22 13:00	
1,2,3-Trichloropropane	ug/L	<0.38	2.5	10/18/22 13:00	
1,2,4-Trichlorobenzene	ug/L	<0.14	1.0	10/18/22 13:00	
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	10/18/22 13:00	
1,2-Dibromo-3-chloropropane	ug/L	<0.36	2.5	10/18/22 13:00	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	10/18/22 13:00	
1,2-Dichlorobenzene	ug/L	<0.13	1.0	10/18/22 13:00	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/18/22 13:00	
1,2-Dichloropropane	ug/L	<0.15	1.0	10/18/22 13:00	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	10/18/22 13:00	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	10/18/22 13:00	
1,3-Dichloropropane	ug/L	<0.16	1.0	10/18/22 13:00	
1,4-Dichlorobenzene	ug/L	<0.15	1.0	10/18/22 13:00	
2,2-Dichloropropane	ug/L	<0.12	1.0	10/18/22 13:00	
2-Butanone (MEK)	ug/L	<0.93	10.0	10/18/22 13:00	
2-Chlorotoluene	ug/L	<0.098	1.0	10/18/22 13:00	
4-Chlorotoluene	ug/L	<0.12	1.0	10/18/22 13:00	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	10.0	10/18/22 13:00	
Acetone	ug/L	<1.9	10.0	10/18/22 13:00	
Allyl chloride	ug/L	<0.15	2.5	10/18/22 13:00	
Benzene	ug/L	<0.10	1.0	10/18/22 13:00	
Bromobenzene	ug/L	<0.12	1.0	10/18/22 13:00	
Bromochloromethane	ug/L	<0.15	1.0	10/18/22 13:00	
Bromodichloromethane	ug/L	<0.12	1.0	10/18/22 13:00	
Bromoform	ug/L	<0.22	1.0	10/18/22 13:00	
Bromomethane	ug/L	0.85J	2.5	10/18/22 13:00	
Carbon tetrachloride	ug/L	<0.13	1.0	10/18/22 13:00	
Chlorobenzene	ug/L	<0.13	1.0	10/18/22 13:00	
Chloroethane	ug/L	<0.21	1.0	10/18/22 13:00	
Chloroform	ug/L	<0.23	1.0	10/18/22 13:00	
Chloromethane	ug/L	<0.17	1.0	10/18/22 13:00	
cis-1,2-Dichloroethene	ug/L	<0.15	1.0	10/18/22 13:00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

METHOD BLANK: 4484223

Matrix: Water

Associated Lab Samples: 10629409001, 10629409002, 10629409003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.057	1.0	10/18/22 13:00	
Dibromochloromethane	ug/L	<0.20	1.0	10/18/22 13:00	
Dibromomethane	ug/L	<0.17	1.0	10/18/22 13:00	
Dichlorodifluoromethane	ug/L	<0.079	1.0	10/18/22 13:00	
Dichlorofluoromethane	ug/L	<0.15	1.0	10/18/22 13:00	
Diethyl ether (Ethyl ether)	ug/L	<0.19	2.5	10/18/22 13:00	
Ethylbenzene	ug/L	<0.11	1.0	10/18/22 13:00	
Hexachloro-1,3-butadiene	ug/L	<0.24	1.0	10/18/22 13:00	
Isopropylbenzene (Cumene)	ug/L	<0.12	1.0	10/18/22 13:00	
m&p-Xylene	ug/L	<0.20	2.0	10/18/22 13:00	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	10/18/22 13:00	
Methylene Chloride	ug/L	<0.33	1.0	10/18/22 13:00	
n-Butylbenzene	ug/L	<0.096	1.0	10/18/22 13:00	
n-Propylbenzene	ug/L	<0.11	1.0	10/18/22 13:00	
Naphthalene	ug/L	<0.18	1.0	10/18/22 13:00	
o-Xylene	ug/L	<0.18	1.0	10/18/22 13:00	
p-Isopropyltoluene	ug/L	<0.11	1.0	10/18/22 13:00	
sec-Butylbenzene	ug/L	<0.097	1.0	10/18/22 13:00	
Styrene	ug/L	<0.097	1.0	10/18/22 13:00	
tert-Butylbenzene	ug/L	<0.091	1.0	10/18/22 13:00	
Tetrachloroethene	ug/L	<0.10	1.0	10/18/22 13:00	
Tetrahydrofuran	ug/L	<1.4	10.0	10/18/22 13:00	
Toluene	ug/L	<0.10	1.0	10/18/22 13:00	
trans-1,2-Dichloroethene	ug/L	<0.14	1.0	10/18/22 13:00	
trans-1,3-Dichloropropene	ug/L	<0.13	1.0	10/18/22 13:00	
Trichloroethene	ug/L	<0.12	1.0	10/18/22 13:00	
Trichlorofluoromethane	ug/L	<0.12	1.0	10/18/22 13:00	
Vinyl chloride	ug/L	<0.046	1.0	10/18/22 13:00	
Xylene (Total)	ug/L	<0.20	3.0	10/18/22 13:00	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	10/18/22 13:00	
4-Bromofluorobenzene (S)	%	95	75-125	10/18/22 13:00	
Toluene-d8 (S)	%	100	75-125	10/18/22 13:00	

LABORATORY CONTROL SAMPLE: 4484224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.6	108	75-125	
1,1,1-Trichloroethane	ug/L	20	21.0	105	72-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.9	104	70-125	
1,1,2-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.6	103	63-125	
1,1-Dichloroethane	ug/L	20	19.9	100	67-125	
1,1-Dichloroethene	ug/L	20	20.0	100	67-125	
1,1-Dichloropropene	ug/L	20	20.7	104	70-125	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4484224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	20.5	102	68-125	
1,2,3-Trichloropropane	ug/L	20	22.0	110	74-125	
1,2,4-Trichlorobenzene	ug/L	20	19.9	100	68-125	
1,2,4-Trimethylbenzene	ug/L	20	21.4	107	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	21.3	107	54-131	
1,2-Dibromoethane (EDB)	ug/L	20	21.9	109	75-125	
1,2-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,2-Dichloroethane	ug/L	20	21.0	105	75-125	
1,2-Dichloropropane	ug/L	20	19.4	97	70-128	
1,3,5-Trimethylbenzene	ug/L	20	20.8	104	75-125	
1,3-Dichlorobenzene	ug/L	20	20.6	103	75-125	
1,3-Dichloropropane	ug/L	20	20.3	101	75-125	
1,4-Dichlorobenzene	ug/L	20	20.6	103	75-125	
2,2-Dichloropropane	ug/L	20	20.2	101	49-125	
2-Butanone (MEK)	ug/L	100	116	116	56-138	
2-Chlorotoluene	ug/L	20	20.1	100	70-125	
4-Chlorotoluene	ug/L	20	20.2	101	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	125	125	64-133	
Acetone	ug/L	100	133	133	42-131	L1
Allyl chloride	ug/L	20	19.5	97	51-133	
Benzene	ug/L	20	20.1	101	73-125	
Bromobenzene	ug/L	20	20.1	100	75-125	
Bromochloromethane	ug/L	20	22.0	110	75-125	
Bromodichloromethane	ug/L	20	21.4	107	74-125	
Bromoform	ug/L	20	26.9	134	61-125	L1
Bromomethane	ug/L	20	28.9	144	30-125	L1
Carbon tetrachloride	ug/L	20	22.0	110	58-125	
Chlorobenzene	ug/L	20	20.6	103	75-125	
Chloroethane	ug/L	20	18.1	90	58-125	
Chloroform	ug/L	20	20.6	103	74-125	
Chloromethane	ug/L	20	17.3	86	38-142	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	72-125	
Dibromochloromethane	ug/L	20	22.9	115	73-125	
Dibromomethane	ug/L	20	22.4	112	68-125	
Dichlorodifluoromethane	ug/L	20	23.1	115	46-149	
Dichlorofluoromethane	ug/L	20	20.2	101	71-126	
Diethyl ether (Ethyl ether)	ug/L	20	20.5	103	68-127	
Ethylbenzene	ug/L	20	21.0	105	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.7	103	52-131	
Isopropylbenzene (Cumene)	ug/L	20	21.5	107	74-125	
m&p-Xylene	ug/L	40	41.7	104	72-125	
Methyl-tert-butyl ether	ug/L	20	21.2	106	75-125	
Methylene Chloride	ug/L	20	19.1	96	70-125	
n-Butylbenzene	ug/L	20	19.7	98	68-125	
n-Propylbenzene	ug/L	20	21.0	105	70-125	
Naphthalene	ug/L	20	21.5	107	66-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4484224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.8	104	73-125	
p-Isopropyltoluene	ug/L	20	21.8	109	72-125	
sec-Butylbenzene	ug/L	20	21.6	108	72-125	
Styrene	ug/L	20	23.3	116	75-125	
tert-Butylbenzene	ug/L	20	21.0	105	74-125	
Tetrachloroethene	ug/L	20	21.1	105	72-125	
Tetrahydrofuran	ug/L	100	138	138	75-125 L1	
Toluene	ug/L	20	20.5	102	74-125	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	73-125	
trans-1,3-Dichloropropene	ug/L	20	24.0	120	72-125	
Trichloroethene	ug/L	20	21.7	108	75-125	
Trichlorofluoromethane	ug/L	20	21.4	107	62-136	
Vinyl chloride	ug/L	20	18.8	94	55-139	
Xylene (Total)	ug/L	60	62.5	104	72-125	
1,2-Dichlorobenzene-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4484230 4484231

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10629571010 Result	Spike Conc.	Spike Conc.	Conc.									
1,1,1,2-Tetrachloroethane	ug/L	<0.19	20	20	20	30.1	24.5	150	123	75-130	20	30	M1	
1,1,1-Trichloroethane	ug/L	<0.12	20	20	20	32.6	25.8	163	129	64-143	23	30	M1	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	20	20	27.5	22.8	138	114	48-139	19	30		
1,1,2-Trichloroethane	ug/L	<0.22	20	20	20	28.2	22.9	141	114	68-135	21	30	M1	
1,1,2-Trichloroethane	ug/L	<0.15	20	20	20	34.3	26.4	171	132	52-150	26	30	M1	
Trichlorotrifluoroethane														
1,1-Dichloroethane	ug/L	<0.11	20	20	20	28.0	22.9	140	115	62-146	20	30		
1,1-Dichloroethene	ug/L	<0.13	20	20	20	30.8	24.1	154	121	44-150	24	30	M1	
1,1-Dichloropropene	ug/L	<0.12	20	20	20	33.7	26.5	168	132	55-150	24	30	M1	
1,2,3-Trichlorobenzene	ug/L	<0.13	20	20	20	27.2	22.1	136	111	44-150	20	30		
1,2,3-Trichloropropane	ug/L	<0.38	20	20	20	28.9	23.3	144	116	64-126	22	30	M1	
1,2,4-Trichlorobenzene	ug/L	<0.14	20	20	20	26.7	22.3	134	112	42-147	18	30		
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	20	31.2	25.1	156	125	62-138	22	30	M1	
1,2-Dibromo-3-chloropropane	ug/L	<0.36	20	20	20	27.3	21.2	136	106	53-132	25	30	M1	
1,2-Dibromoethane (EDB)	ug/L	<0.20	20	20	20	29.6	24.1	148	121	69-129	20	30	M1	
1,2-Dichlorobenzene	ug/L	<0.13	20	20	20	27.8	22.7	139	113	70-125	20	30	M1	
1,2-Dichloroethane	ug/L	<0.17	20	20	20	28.9	22.9	144	115	70-133	23	30	M1	
1,2-Dichloropropane	ug/L	<0.15	20	20	20	27.7	22.1	139	110	61-142	23	30		
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	20	30.6	25.2	153	126	64-135	19	30	M1	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	20	28.8	23.8	144	119	69-131	19	30	M1	
1,3-Dichloropropane	ug/L	<0.16	20	20	20	28.0	22.5	140	112	70-129	22	30	M1	
1,4-Dichlorobenzene	ug/L	<0.15	20	20	20	28.3	23.3	141	116	67-127	19	30	M1	
2,2-Dichloropropane	ug/L	<0.12	20	20	20	31.6	25.6	158	128	38-148	21	30	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Parameter	Units	10629571010		MSD		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4484230 4484231													
2-Butanone (MEK)	ug/L	<0.93	100	100	158	121	158	121	46-138	27	30	M1	
2-Chlorotoluene	ug/L	<0.098	20	20	29.7	23.7	149	119	52-142	22	30	M1	
4-Chlorotoluene	ug/L	<0.12	20	20	29.6	24.1	148	121	59-132	20	30	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	100	100	172	134	172	134	42-145	25	30	M1	
Acetone	ug/L	<1.9	100	100	166	126	166	126	42-132	27	30	M0	
Allyl chloride	ug/L	<0.15	20	20	29.4	23.7	147	119	31-150	21	30		
Benzene	ug/L	<0.10	20	20	29.3	23.6	146	118	65-140	22	30	M1	
Bromobenzene	ug/L	<0.12	20	20	28.0	22.9	140	115	65-129	20	30	M1	
Bromochloromethane	ug/L	<0.15	20	20	29.4	23.5	147	118	67-147	22	30		
Bromodichloromethane	ug/L	<0.12	20	20	28.8	22.9	144	115	66-136	23	30	M1	
Bromoform	ug/L	<0.22	20	20	32.9	27.1	165	136	59-137	19	30	M0	
Bromomethane	ug/L	0.88J	20	20	41.1	33.7	201	164	30-150	20	30	M0,v1	
Carbon tetrachloride	ug/L	<0.13	20	20	33.8	26.2	169	131	58-149	25	30	M1	
Chlorobenzene	ug/L	<0.13	20	20	29.3	23.4	147	117	74-125	23	30	M1	
Chloroethane	ug/L	<0.21	20	20	24.5	19.9	122	100	34-150	21	30		
Chloroform	ug/L	<0.23	20	20	29.8	22.9	149	115	54-148	26	30	M1	
Chloromethane	ug/L	<0.17	20	20	25.2	21.0	126	104	38-150	18	30		
cis-1,2-Dichloroethene	ug/L	<0.15	20	20	29.2	23.5	146	117	54-149	22	30		
cis-1,3-Dichloropropene	ug/L	<0.057	20	20	27.9	22.4	140	112	64-130	22	30	M1	
Dibromochloromethane	ug/L	<0.20	20	20	29.5	23.9	147	119	71-135	21	30	M1	
Dibromomethane	ug/L	<0.17	20	20	30.1	24.4	151	122	65-141	21	30	M1	
Dichlorodifluoromethane	ug/L	<0.079	20	20	35.4	29.4	177	147	32-150	18	30	M1	
Dichlorofluoromethane	ug/L	<0.15	20	20	27.7	22.6	138	113	58-150	20	30		
Diethyl ether (Ethyl ether)	ug/L	<0.19	20	20	27.5	22.4	138	112	51-148	21	30		
Ethylbenzene	ug/L	<0.11	20	20	31.4	25.0	156	125	66-126	23	30	M1	
Hexachloro-1,3-butadiene	ug/L	<0.24	20	20	29.5	24.5	147	123	31-150	18	30		
Isopropylbenzene (Cumene)	ug/L	<0.12	20	20	32.7	26.4	164	132	72-133	22	30	M1	
m&p-Xylene	ug/L	<0.20	40	40	63.3	50.1	158	125	69-134	23	30	M1	
Methyl-tert-butyl ether	ug/L	<0.13	20	20	28.8	22.9	144	115	65-137	23	30	M1	
Methylene Chloride	ug/L	<0.33	20	20	26.6	21.4	133	107	59-137	22	30		
n-Butylbenzene	ug/L	<0.096	20	20	29.0	23.9	145	119	52-141	19	30	M1	
n-Propylbenzene	ug/L	<0.11	20	20	31.3	25.5	156	127	53-138	20	30	M1	
Naphthalene	ug/L	<0.18	20	20	28.9	23.9	144	119	56-141	19	30	M1	
o-Xylene	ug/L	<0.18	20	20	30.6	24.6	153	123	73-133	22	30	M1	
p-Isopropyltoluene	ug/L	<0.11	20	20	31.9	26.3	160	131	59-139	19	30	M1	
sec-Butylbenzene	ug/L	<0.097	20	20	32.0	25.9	160	129	60-138	21	30	M1	
Styrene	ug/L	<0.097	20	20	33.7	26.8	168	134	67-138	23	30	M1	
tert-Butylbenzene	ug/L	<0.091	20	20	31.6	25.5	158	128	58-141	21	30	M1	
Tetrachloroethene	ug/L	<0.10	20	20	33.0	26.5	165	133	66-141	22	30	M1	
Tetrahydrofuran	ug/L	<1.4	100	100	182	138	182	138	57-133	27	30	M0,v1	
Toluene	ug/L	<0.10	20	20	29.8	24.1	149	120	69-131	21	30	M1	
trans-1,2-Dichloroethene	ug/L	<0.14	20	20	31.3	24.0	156	120	47-150	27	30	M1	
trans-1,3-Dichloropropene	ug/L	<0.13	20	20	32.5	26.0	162	130	68-129	22	30	M1	
Trichloroethene	ug/L	<0.12	20	20	32.4	25.8	162	129	68-139	23	30	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Parameter	Units	4484230		4484231		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Trichlorofluoromethane	ug/L	<0.12	20	20	31.6	26.0	158	130	49-150	20	30	M1	
Vinyl chloride	ug/L	<0.046	20	20	27.3	23.4	136	117	55-150	15	30		
Xylene (Total)	ug/L	<0.20	60	60	93.9	74.7	157	125	68-136	23	30	MS	
1,2-Dichlorobenzene-d4 (S)	%						96	95	75-125				
4-Bromofluorobenzene (S)	%						105	106	75-125				
Toluene-d8 (S)	%						100	99	75-125				

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

QC Batch: 847898

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV 465 W

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629409004, 10629409005

METHOD BLANK: 4485550

Matrix: Water

Associated Lab Samples: 10629409004, 10629409005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.19	1.0	10/19/22 13:11	
1,1,1-Trichloroethane	ug/L	<0.12	1.0	10/19/22 13:11	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	1.0	10/19/22 13:11	
1,1,2-Trichloroethane	ug/L	<0.22	1.0	10/19/22 13:11	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.15	1.0	10/19/22 13:11	
1,1-Dichloroethane	ug/L	<0.11	1.0	10/19/22 13:11	
1,1-Dichloroethene	ug/L	<0.13	1.0	10/19/22 13:11	
1,1-Dichloropropene	ug/L	<0.12	1.0	10/19/22 13:11	
1,2,3-Trichlorobenzene	ug/L	<0.13	1.0	10/19/22 13:11	
1,2,3-Trichloropropane	ug/L	<0.38	2.5	10/19/22 13:11	
1,2,4-Trichlorobenzene	ug/L	<0.14	1.0	10/19/22 13:11	
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	10/19/22 13:11	
1,2-Dibromo-3-chloropropane	ug/L	<0.36	2.5	10/19/22 13:11	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	10/19/22 13:11	
1,2-Dichlorobenzene	ug/L	<0.13	1.0	10/19/22 13:11	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/19/22 13:11	
1,2-Dichloropropane	ug/L	<0.15	1.0	10/19/22 13:11	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	10/19/22 13:11	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	10/19/22 13:11	
1,3-Dichloropropane	ug/L	<0.16	1.0	10/19/22 13:11	
1,4-Dichlorobenzene	ug/L	<0.15	1.0	10/19/22 13:11	
2,2-Dichloropropane	ug/L	<0.12	1.0	10/19/22 13:11	
2-Butanone (MEK)	ug/L	<0.93	10.0	10/19/22 13:11	
2-Chlorotoluene	ug/L	<0.098	1.0	10/19/22 13:11	
4-Chlorotoluene	ug/L	<0.12	1.0	10/19/22 13:11	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	10.0	10/19/22 13:11	
Acetone	ug/L	<1.9	10.0	10/19/22 13:11	
Allyl chloride	ug/L	<0.15	2.5	10/19/22 13:11	
Benzene	ug/L	<0.10	1.0	10/19/22 13:11	
Bromobenzene	ug/L	<0.12	1.0	10/19/22 13:11	
Bromochloromethane	ug/L	<0.15	1.0	10/19/22 13:11	
Bromodichloromethane	ug/L	<0.12	1.0	10/19/22 13:11	
Bromoform	ug/L	<0.22	1.0	10/19/22 13:11	
Bromomethane	ug/L	0.52J	2.5	10/19/22 13:11	
Carbon tetrachloride	ug/L	<0.13	1.0	10/19/22 13:11	
Chlorobenzene	ug/L	<0.13	1.0	10/19/22 13:11	
Chloroethane	ug/L	<0.21	1.0	10/19/22 13:11	
Chloroform	ug/L	<0.23	1.0	10/19/22 13:11	
Chloromethane	ug/L	<0.17	1.0	10/19/22 13:11	
cis-1,2-Dichloroethene	ug/L	<0.15	1.0	10/19/22 13:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

METHOD BLANK: 4485550

Matrix: Water

Associated Lab Samples: 10629409004, 10629409005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.057	1.0	10/19/22 13:11	
Dibromochloromethane	ug/L	<0.20	1.0	10/19/22 13:11	
Dibromomethane	ug/L	<0.17	1.0	10/19/22 13:11	
Dichlorodifluoromethane	ug/L	<0.079	1.0	10/19/22 13:11	
Dichlorofluoromethane	ug/L	<0.15	1.0	10/19/22 13:11	
Diethyl ether (Ethyl ether)	ug/L	<0.19	2.5	10/19/22 13:11	
Ethylbenzene	ug/L	<0.11	1.0	10/19/22 13:11	
Hexachloro-1,3-butadiene	ug/L	<0.24	1.0	10/19/22 13:11	
Isopropylbenzene (Cumene)	ug/L	<0.12	1.0	10/19/22 13:11	
m&p-Xylene	ug/L	<0.20	2.0	10/19/22 13:11	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	10/19/22 13:11	
Methylene Chloride	ug/L	<0.33	1.0	10/19/22 13:11	
n-Butylbenzene	ug/L	<0.096	1.0	10/19/22 13:11	
n-Propylbenzene	ug/L	<0.11	1.0	10/19/22 13:11	
Naphthalene	ug/L	<0.18	1.0	10/19/22 13:11	
o-Xylene	ug/L	<0.18	1.0	10/19/22 13:11	
p-Isopropyltoluene	ug/L	<0.11	1.0	10/19/22 13:11	
sec-Butylbenzene	ug/L	<0.097	1.0	10/19/22 13:11	
Styrene	ug/L	<0.097	1.0	10/19/22 13:11	
tert-Butylbenzene	ug/L	<0.091	1.0	10/19/22 13:11	
Tetrachloroethene	ug/L	<0.10	1.0	10/19/22 13:11	
Tetrahydrofuran	ug/L	<1.4	10.0	10/19/22 13:11	
Toluene	ug/L	<0.10	1.0	10/19/22 13:11	
trans-1,2-Dichloroethene	ug/L	<0.14	1.0	10/19/22 13:11	
trans-1,3-Dichloropropene	ug/L	<0.13	1.0	10/19/22 13:11	
Trichloroethene	ug/L	<0.12	1.0	10/19/22 13:11	
Trichlorofluoromethane	ug/L	<0.12	1.0	10/19/22 13:11	
Vinyl chloride	ug/L	<0.046	1.0	10/19/22 13:11	
Xylene (Total)	ug/L	<0.20	3.0	10/19/22 13:11	
1,2-Dichlorobenzene-d4 (S)	%	98	75-125	10/19/22 13:11	
4-Bromofluorobenzene (S)	%	97	75-125	10/19/22 13:11	
Toluene-d8 (S)	%	99	75-125	10/19/22 13:11	

LABORATORY CONTROL SAMPLE: 4485551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.2	106	75-125	
1,1,1-Trichloroethane	ug/L	20	20.9	105	72-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	70-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.6	103	63-125	
1,1-Dichloroethane	ug/L	20	19.4	97	67-125	
1,1-Dichloroethene	ug/L	20	19.9	100	67-125	
1,1-Dichloropropene	ug/L	20	21.1	106	70-125	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4485551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	20.3	102	68-125	
1,2,3-Trichloropropane	ug/L	20	20.7	103	74-125	
1,2,4-Trichlorobenzene	ug/L	20	19.9	99	68-125	
1,2,4-Trimethylbenzene	ug/L	20	21.8	109	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	54-131	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	75-125	
1,2-Dichlorobenzene	ug/L	20	20.0	100	75-125	
1,2-Dichloroethane	ug/L	20	20.1	101	75-125	
1,2-Dichloropropane	ug/L	20	18.7	93	70-128	
1,3,5-Trimethylbenzene	ug/L	20	21.4	107	75-125	
1,3-Dichlorobenzene	ug/L	20	20.7	103	75-125	
1,3-Dichloropropane	ug/L	20	19.5	97	75-125	
1,4-Dichlorobenzene	ug/L	20	20.5	102	75-125	
2,2-Dichloropropane	ug/L	20	20.7	103	49-125	
2-Butanone (MEK)	ug/L	100	103	103	56-138	
2-Chlorotoluene	ug/L	20	20.7	103	70-125	
4-Chlorotoluene	ug/L	20	20.8	104	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	64-133	
Acetone	ug/L	100	109	109	42-131	
Allyl chloride	ug/L	20	19.0	95	51-133	
Benzene	ug/L	20	19.5	98	73-125	
Bromobenzene	ug/L	20	19.8	99	75-125	
Bromochloromethane	ug/L	20	20.6	103	75-125	
Bromodichloromethane	ug/L	20	20.1	101	74-125	
Bromoform	ug/L	20	23.4	117	61-125	
Bromomethane	ug/L	20	25.6	128	30-125 L1	
Carbon tetrachloride	ug/L	20	20.9	105	58-125	
Chlorobenzene	ug/L	20	20.5	103	75-125	
Chloroethane	ug/L	20	15.2	76	58-125	
Chloroform	ug/L	20	20.4	102	74-125	
Chloromethane	ug/L	20	16.8	84	38-142	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	72-125	
Dibromochloromethane	ug/L	20	20.3	102	73-125	
Dibromomethane	ug/L	20	21.5	107	68-125	
Dichlorodifluoromethane	ug/L	20	22.7	114	46-149	
Dichlorofluoromethane	ug/L	20	18.0	90	71-126	
Diethyl ether (Ethyl ether)	ug/L	20	19.5	98	68-127	
Ethylbenzene	ug/L	20	21.4	107	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.4	107	52-131	
Isopropylbenzene (Cumene)	ug/L	20	22.4	112	74-125	
m&p-Xylene	ug/L	40	42.6	106	72-125	
Methyl-tert-butyl ether	ug/L	20	19.6	98	75-125	
Methylene Chloride	ug/L	20	18.7	94	70-125	
n-Butylbenzene	ug/L	20	20.6	103	68-125	
n-Propylbenzene	ug/L	20	21.4	107	70-125	
Naphthalene	ug/L	20	20.5	102	66-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM
Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4485551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.9	104	73-125	
p-Isopropyltoluene	ug/L	20	22.5	112	72-125	
sec-Butylbenzene	ug/L	20	22.5	112	72-125	
Styrene	ug/L	20	23.2	116	75-125	
tert-Butylbenzene	ug/L	20	21.8	109	74-125	
Tetrachloroethene	ug/L	20	22.1	111	72-125	
Tetrahydrofuran	ug/L	100	121	121	75-125	
Toluene	ug/L	20	20.1	100	74-125	
trans-1,2-Dichloroethene	ug/L	20	21.3	106	73-125	
trans-1,3-Dichloropropene	ug/L	20	21.9	110	72-125	
Trichloroethene	ug/L	20	21.3	107	75-125	
Trichlorofluoromethane	ug/L	20	20.2	101	62-136	
Vinyl chloride	ug/L	20	17.2	86	55-139	
Xylene (Total)	ug/L	60	63.4	106	72-125	
1,2-Dichlorobenzene-d4 (S)	%			96	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4485553 4485554

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10629410005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	<3.8	400	400	408	412	102	103	75-130	1	30	
1,1,1-Trichloroethane	ug/L	<2.5	400	400	414	416	104	104	64-143	0	30	
1,1,2,2-Tetrachloroethane	ug/L	<2.9	400	400	402	399	101	100	48-139	1	30	
1,1,2-Trichloroethane	ug/L	<4.5	400	400	411	405	103	101	68-135	1	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<3.1	400	400	390	405	98	101	52-150	4	30	
1,1-Dichloroethane	ug/L	<2.2	400	400	379	383	95	96	62-146	1	30	
1,1-Dichloroethene	ug/L	<2.6	400	400	382	393	96	98	44-150	3	30	
1,1-Dichloropropene	ug/L	<2.5	400	400	405	422	101	105	55-150	4	30	
1,2,3-Trichlorobenzene	ug/L	<2.7	400	400	405	412	101	103	44-150	2	30	
1,2,3-Trichloropropane	ug/L	<7.5	400	400	421	415	105	104	64-126	2	30	
1,2,4-Trichlorobenzene	ug/L	<2.8	400	400	410	424	103	106	42-147	3	30	
1,2,4-Trimethylbenzene	ug/L	2650	400	400	2880	2920	56	68	62-138	2	30	P6
1,2-Dibromo-3-chloropropane	ug/L	<7.1	400	400	464	461	116	115	53-132	1	30	
1,2-Dibromoethane (EDB)	ug/L	<4.0	400	400	418	424	104	106	69-129	2	30	
1,2-Dichlorobenzene	ug/L	<2.6	400	400	406	411	102	103	70-125	1	30	
1,2-Dichloroethane	ug/L	<3.4	400	400	446	449	112	112	70-133	1	30	
1,2-Dichloropropane	ug/L	<3.0	400	400	385	392	96	98	61-142	2	30	
1,3,5-Trimethylbenzene	ug/L	784	400	400	1210	1220	106	109	64-135	1	30	
1,3-Dichlorobenzene	ug/L	<2.5	400	400	421	426	105	107	69-131	1	30	
1,3-Dichloropropane	ug/L	<3.2	400	400	398	403	99	101	70-129	1	30	
1,4-Dichlorobenzene	ug/L	<2.9	400	400	406	411	101	103	67-127	1	30	
2,2-Dichloropropane	ug/L	<2.3	400	400	401	399	100	100	38-148	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4485553 4485554												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10629410005	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
2-Butanone (MEK)	ug/L	<18.7	2000	2000	2320	2210	116	111	46-138	5	30	
2-Chlorotoluene	ug/L	<2.0	400	400	734	727	184	182	52-142	1	30	M1
4-Chlorotoluene	ug/L	<2.5	400	400	510	518	127	129	59-132	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<16.1	2000	2000	2470	2500	124	125	42-145	1	30	
Acetone	ug/L	<38.0	2000	2000	2410	2380	120	119	42-132	1	30	
Allyl chloride	ug/L	<2.9	400	400	400	429	100	107	31-150	7	30	
Benzene	ug/L	1340	400	400	1660	1690	80	88	65-140	2	30	
Bromobenzene	ug/L	<2.4	400	400	401	400	100	100	65-129	0	30	
Bromochloromethane	ug/L	<3.0	400	400	407	413	102	103	67-147	1	30	
Bromodichloromethane	ug/L	<2.3	400	400	397	408	99	102	66-136	3	30	
Bromoform	ug/L	<4.5	400	400	489	487	122	122	59-137	1	30	
Bromomethane	ug/L	10.2J	400	400	562	562	138	138	30-150	0	30	
Carbon tetrachloride	ug/L	<2.7	400	400	416	417	104	104	58-149	0	30	
Chlorobenzene	ug/L	<2.7	400	400	403	408	101	102	74-125	1	30	
Chloroethane	ug/L	<4.1	400	400	327	319	82	80	34-150	3	30	
Chloroform	ug/L	<4.6	400	400	405	402	101	101	54-148	1	30	
Chloromethane	ug/L	<3.4	400	400	332	338	83	85	38-150	2	30	
cis-1,2-Dichloroethene	ug/L	<3.0	400	400	382	400	96	100	54-149	4	30	
cis-1,3-Dichloropropene	ug/L	<1.1	400	400	387	388	97	97	64-130	0	30	
Dibromochloromethane	ug/L	<4.1	400	400	405	412	101	103	71-135	2	30	
Dibromomethane	ug/L	<3.5	400	400	435	411	109	103	65-141	5	30	
Dichlorodifluoromethane	ug/L	<1.6	400	400	442	446	111	111	32-150	1	30	
Dichlorofluoromethane	ug/L	<3.0	400	400	344	366	86	91	58-150	6	30	
Diethyl ether (Ethyl ether)	ug/L	<3.9	400	400	387	391	97	98	51-148	1	30	
Ethylbenzene	ug/L	467	400	400	878	898	103	108	66-126	2	30	
Hexachloro-1,3-butadiene	ug/L	<4.7	400	400	403	419	101	105	31-150	4	30	
Isopropylbenzene (Cumene)	ug/L	20.5	400	400	480	487	115	117	72-133	1	30	
m&p-Xylene	ug/L	8730	800	800	9070	9070	43	43	69-134	0	30	E,P6
Methyl-tert-butyl ether	ug/L	<2.5	400	400	388	400	97	100	65-137	3	30	
Methylene Chloride	ug/L	<6.6	400	400	357	364	89	91	59-137	2	30	
n-Butylbenzene	ug/L	<1.9	400	400	461	475	115	119	52-141	3	30	
n-Propylbenzene	ug/L	31.7	400	400	451	466	105	109	53-138	3	30	
Naphthalene	ug/L	312	400	400	760	774	112	115	56-141	2	30	
o-Xylene	ug/L	3380	400	400	4200	4210	204	207	73-133	0	30	E,P6
p-Isopropyltoluene	ug/L	<2.1	400	400	451	469	113	117	59-139	4	30	
sec-Butylbenzene	ug/L	6.7J	400	400	457	462	112	114	60-138	1	30	
Styrene	ug/L	<1.9	400	400	673	672	168	168	67-138	0	30	M1
tert-Butylbenzene	ug/L	<1.8	400	400	443	451	111	113	58-141	2	30	
Tetrachloroethene	ug/L	<2.1	400	400	430	434	108	108	66-141	1	30	
Tetrahydrofuran	ug/L	<27.8	2000	2000	2460	2560	123	128	57-133	4	30	
Toluene	ug/L	2050	400	400	2390	2410	84	90	69-131	1	30	
trans-1,2-Dichloroethene	ug/L	<2.7	400	400	385	392	96	98	47-150	2	30	
trans-1,3-Dichloropropene	ug/L	<2.6	400	400	444	459	111	115	68-129	3	30	
Trichloroethene	ug/L	<2.4	400	400	413	420	103	105	68-139	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4485553		4485554		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10629410005 Result	MS Spike Conc.	MSD Spike Conc.									
Trichlorofluoromethane	ug/L	<2.5	400	400	402	391	101	98	49-150	3	30		
Vinyl chloride	ug/L	<0.92	400	400	351	361	88	90	55-150	3	30		
Xylene (Total)	ug/L	12100	1200	1200	13300	13300	97	98	68-136	0	30	ES	
1,2-Dichlorobenzene-d4 (S)	%						99	99	75-125				
4-Bromofluorobenzene (S)	%						108	110	75-125				
Toluene-d8 (S)	%						99	99	75-125				

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM
Pace Project No.: 10629409

QC Batch: 847958	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV 465 W
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629409006

METHOD BLANK: 4485888 Matrix: Water
Associated Lab Samples: 10629409006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.19	1.0	10/19/22 22:04	
1,1,1-Trichloroethane	ug/L	<0.12	1.0	10/19/22 22:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	1.0	10/19/22 22:04	
1,1,2-Trichloroethane	ug/L	<0.22	1.0	10/19/22 22:04	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.15	1.0	10/19/22 22:04	
1,1-Dichloroethane	ug/L	<0.11	1.0	10/19/22 22:04	
1,1-Dichloroethene	ug/L	<0.13	1.0	10/19/22 22:04	
1,1-Dichloropropene	ug/L	<0.12	1.0	10/19/22 22:04	
1,2,3-Trichlorobenzene	ug/L	<0.13	1.0	10/19/22 22:04	
1,2,3-Trichloropropane	ug/L	<0.38	2.5	10/19/22 22:04	
1,2,4-Trichlorobenzene	ug/L	<0.14	1.0	10/19/22 22:04	
1,2,4-Trimethylbenzene	ug/L	<0.13	1.0	10/19/22 22:04	
1,2-Dibromo-3-chloropropane	ug/L	<0.36	2.5	10/19/22 22:04	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	10/19/22 22:04	
1,2-Dichlorobenzene	ug/L	<0.13	1.0	10/19/22 22:04	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/19/22 22:04	
1,2-Dichloropropane	ug/L	<0.15	1.0	10/19/22 22:04	
1,3,5-Trimethylbenzene	ug/L	<0.11	1.0	10/19/22 22:04	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	10/19/22 22:04	
1,3-Dichloropropane	ug/L	<0.16	1.0	10/19/22 22:04	
1,4-Dichlorobenzene	ug/L	<0.15	1.0	10/19/22 22:04	
2,2-Dichloropropane	ug/L	<0.12	1.0	10/19/22 22:04	
2-Butanone (MEK)	ug/L	<0.93	10.0	10/19/22 22:04	
2-Chlorotoluene	ug/L	<0.098	1.0	10/19/22 22:04	
4-Chlorotoluene	ug/L	<0.12	1.0	10/19/22 22:04	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	10.0	10/19/22 22:04	
Acetone	ug/L	<1.9	10.0	10/19/22 22:04	
Allyl chloride	ug/L	<0.15	2.5	10/19/22 22:04	
Benzene	ug/L	<0.10	1.0	10/19/22 22:04	
Bromobenzene	ug/L	<0.12	1.0	10/19/22 22:04	
Bromochloromethane	ug/L	<0.15	1.0	10/19/22 22:04	
Bromodichloromethane	ug/L	<0.12	1.0	10/19/22 22:04	
Bromoform	ug/L	<0.22	1.0	10/19/22 22:04	
Bromomethane	ug/L	0.70J	2.5	10/19/22 22:04	
Carbon tetrachloride	ug/L	<0.13	1.0	10/19/22 22:04	
Chlorobenzene	ug/L	<0.13	1.0	10/19/22 22:04	
Chloroethane	ug/L	<0.21	1.0	10/19/22 22:04	
Chloroform	ug/L	<0.23	1.0	10/19/22 22:04	
Chloromethane	ug/L	<0.17	1.0	10/19/22 22:04	
cis-1,2-Dichloroethene	ug/L	<0.15	1.0	10/19/22 22:04	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

METHOD BLANK: 4485888

Matrix: Water

Associated Lab Samples: 10629409006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.057	1.0	10/19/22 22:04	
Dibromochloromethane	ug/L	<0.20	1.0	10/19/22 22:04	
Dibromomethane	ug/L	<0.17	1.0	10/19/22 22:04	
Dichlorodifluoromethane	ug/L	<0.079	1.0	10/19/22 22:04	
Dichlorofluoromethane	ug/L	<0.15	1.0	10/19/22 22:04	
Diethyl ether (Ethyl ether)	ug/L	<0.19	2.5	10/19/22 22:04	
Ethylbenzene	ug/L	<0.11	1.0	10/19/22 22:04	
Hexachloro-1,3-butadiene	ug/L	<0.24	1.0	10/19/22 22:04	
Isopropylbenzene (Cumene)	ug/L	<0.12	1.0	10/19/22 22:04	
m&p-Xylene	ug/L	<0.20	2.0	10/19/22 22:04	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	10/19/22 22:04	
Methylene Chloride	ug/L	<0.33	1.0	10/19/22 22:04	
n-Butylbenzene	ug/L	<0.096	1.0	10/19/22 22:04	
n-Propylbenzene	ug/L	<0.11	1.0	10/19/22 22:04	
Naphthalene	ug/L	<0.18	1.0	10/19/22 22:04	
o-Xylene	ug/L	<0.18	1.0	10/19/22 22:04	
p-Isopropyltoluene	ug/L	<0.11	1.0	10/19/22 22:04	
sec-Butylbenzene	ug/L	<0.097	1.0	10/19/22 22:04	
Styrene	ug/L	<0.097	1.0	10/19/22 22:04	
tert-Butylbenzene	ug/L	<0.091	1.0	10/19/22 22:04	
Tetrachloroethene	ug/L	<0.10	1.0	10/19/22 22:04	
Tetrahydrofuran	ug/L	<1.4	10.0	10/19/22 22:04	
Toluene	ug/L	<0.10	1.0	10/19/22 22:04	
trans-1,2-Dichloroethene	ug/L	<0.14	1.0	10/19/22 22:04	
trans-1,3-Dichloropropene	ug/L	<0.13	1.0	10/19/22 22:04	
Trichloroethene	ug/L	<0.12	1.0	10/19/22 22:04	
Trichlorofluoromethane	ug/L	<0.12	1.0	10/19/22 22:04	
Vinyl chloride	ug/L	<0.046	1.0	10/19/22 22:04	
Xylene (Total)	ug/L	<0.20	3.0	10/19/22 22:04	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125	10/19/22 22:04	
4-Bromofluorobenzene (S)	%	98	75-125	10/19/22 22:04	
Toluene-d8 (S)	%	100	75-125	10/19/22 22:04	

LABORATORY CONTROL SAMPLE: 4485889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	75-125	
1,1,1-Trichloroethane	ug/L	20	21.0	105	72-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	70-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.9	100	63-125	
1,1-Dichloroethane	ug/L	20	19.3	96	67-125	
1,1-Dichloroethene	ug/L	20	19.8	99	67-125	
1,1-Dichloropropene	ug/L	20	21.0	105	70-125	

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4485889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	19.8	99	68-125	
1,2,3-Trichloropropane	ug/L	20	20.7	104	74-125	
1,2,4-Trichlorobenzene	ug/L	20	19.0	95	68-125	
1,2,4-Trimethylbenzene	ug/L	20	21.3	107	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	18.8	94	54-131	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	75-125	
1,2-Dichlorobenzene	ug/L	20	20.1	101	75-125	
1,2-Dichloroethane	ug/L	20	20.1	101	75-125	
1,2-Dichloropropane	ug/L	20	19.0	95	70-128	
1,3,5-Trimethylbenzene	ug/L	20	20.9	105	75-125	
1,3-Dichlorobenzene	ug/L	20	20.8	104	75-125	
1,3-Dichloropropane	ug/L	20	19.1	95	75-125	
1,4-Dichlorobenzene	ug/L	20	19.9	99	75-125	
2,2-Dichloropropane	ug/L	20	16.4	82	49-125	
2-Butanone (MEK)	ug/L	100	109	109	56-138	
2-Chlorotoluene	ug/L	20	20.2	101	70-125	
4-Chlorotoluene	ug/L	20	20.4	102	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	64-133	
Acetone	ug/L	100	126	126	42-131	
Allyl chloride	ug/L	20	19.6	98	51-133	
Benzene	ug/L	20	20.0	100	73-125	
Bromobenzene	ug/L	20	19.8	99	75-125	
Bromochloromethane	ug/L	20	21.4	107	75-125	
Bromodichloromethane	ug/L	20	20.4	102	74-125	
Bromoform	ug/L	20	23.5	118	61-125	
Bromomethane	ug/L	20	24.1	120	30-125	
Carbon tetrachloride	ug/L	20	21.2	106	58-125	
Chlorobenzene	ug/L	20	20.4	102	75-125	
Chloroethane	ug/L	20	16.7	83	58-125	
Chloroform	ug/L	20	20.4	102	74-125	
Chloromethane	ug/L	20	16.8	84	38-142	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	72-125	
Dibromochloromethane	ug/L	20	20.9	104	73-125	
Dibromomethane	ug/L	20	21.8	109	68-125	
Dichlorodifluoromethane	ug/L	20	21.4	107	46-149	
Dichlorofluoromethane	ug/L	20	18.7	94	71-126	
Diethyl ether (Ethyl ether)	ug/L	20	18.7	94	68-127	
Ethylbenzene	ug/L	20	21.1	106	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.2	96	52-131	
Isopropylbenzene (Cumene)	ug/L	20	21.5	108	74-125	
m&p-Xylene	ug/L	40	41.0	103	72-125	
Methyl-tert-butyl ether	ug/L	20	19.3	96	75-125	
Methylene Chloride	ug/L	20	18.9	95	70-125	
n-Butylbenzene	ug/L	20	19.2	96	68-125	
n-Propylbenzene	ug/L	20	20.9	104	70-125	
Naphthalene	ug/L	20	19.9	99	66-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

LABORATORY CONTROL SAMPLE: 4485889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	20.7	103	73-125	
p-Isopropyltoluene	ug/L	20	21.7	109	72-125	
sec-Butylbenzene	ug/L	20	21.4	107	72-125	
Styrene	ug/L	20	22.8	114	75-125	
tert-Butylbenzene	ug/L	20	21.6	108	74-125	
Tetrachloroethene	ug/L	20	20.8	104	72-125	
Tetrahydrofuran	ug/L	100	131	131	75-125 L1	
Toluene	ug/L	20	20.4	102	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	73-125	
trans-1,3-Dichloropropene	ug/L	20	21.0	105	72-125	
Trichloroethene	ug/L	20	23.3	116	75-125	
Trichlorofluoromethane	ug/L	20	20.0	100	62-136	
Vinyl chloride	ug/L	20	17.5	88	55-139	
Xylene (Total)	ug/L	60	61.7	103	72-125	
1,2-Dichlorobenzene-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4485894 4485895

Parameter	Units	10629571021		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	<0.19	20	20	19.1	18.6	96	93	75-130	3	30		
1,1,1-Trichloroethane	ug/L	<0.12	20	20	20.3	20.6	101	103	64-143	2	30		
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	20	17.2	17.1	86	85	48-139	1	30		
1,1,2-Trichloroethane	ug/L	<0.22	20	20	17.8	17.7	89	89	68-135	0	30		
1,1,2-Trichloroethane	ug/L	<0.15	20	20	21.3	20.3	107	101	52-150	5	30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/L	<0.11	20	20	17.9	17.9	90	90	62-146	0	30		
1,1-Dichloroethene	ug/L	<0.13	20	20	19.4	19.5	97	98	44-150	0	30		
1,1-Dichloropropene	ug/L	<0.12	20	20	20.4	20.3	102	102	55-150	1	30		
1,2,3-Trichlorobenzene	ug/L	<0.13	20	20	15.2	15.0	76	75	44-150	2	30		
1,2,3-Trichloropropane	ug/L	<0.38	20	20	18.0	18.3	90	91	64-126	1	30		
1,2,4-Trichlorobenzene	ug/L	<0.14	20	20	15.0	14.6	75	73	42-147	3	30		
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	18.4	18.3	92	92	62-138	0	30		
1,2-Dibromo-3-chloropropane	ug/L	<0.36	20	20	16.1	16.7	81	84	53-132	4	30		
1,2-Dibromoethane (EDB)	ug/L	<0.20	20	20	18.6	18.4	93	92	69-129	1	30		
1,2-Dichlorobenzene	ug/L	<0.13	20	20	17.5	17.3	88	87	70-125	1	30		
1,2-Dichloroethane	ug/L	<0.17	20	20	17.8	18.1	89	91	70-133	2	30		
1,2-Dichloropropane	ug/L	<0.15	20	20	17.3	17.2	87	86	61-142	1	30		
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	18.0	17.7	90	89	64-135	1	30		
1,3-Dichlorobenzene	ug/L	<0.12	20	20	18.1	17.6	90	88	69-131	3	30		
1,3-Dichloropropane	ug/L	<0.16	20	20	17.1	17.3	85	86	70-129	1	30		
1,4-Dichlorobenzene	ug/L	<0.15	20	20	17.7	17.4	88	87	67-127	2	30		
2,2-Dichloropropane	ug/L	<0.12	20	20	15.8	15.0	79	75	38-148	5	30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4485894 4485895												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10629571021 Result	Spike Conc.	Spike Conc.	MS Result							
2-Butanone (MEK)	ug/L	<0.93	100	100	97.4	102	97	102	46-138	4	30	
2-Chlorotoluene	ug/L	<0.098	20	20	17.9	18.2	90	91	52-142	1	30	
4-Chlorotoluene	ug/L	<0.12	20	20	17.7	17.8	88	89	59-132	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.80	100	100	100	103	100	103	42-145	3	30	
Acetone	ug/L	5.6J	100	100	107	130	102	124	42-132	19	30	
Allyl chloride	ug/L	<0.15	20	20	17.3	15.3	87	76	31-150	13	30	
Benzene	ug/L	<0.10	20	20	18.3	18.2	91	91	65-140	1	30	
Bromobenzene	ug/L	<0.12	20	20	17.7	17.4	88	87	65-129	2	30	
Bromochloromethane	ug/L	<0.15	20	20	19.5	19.1	98	96	67-147	2	30	
Bromodichloromethane	ug/L	<0.12	20	20	18.4	18.2	92	91	66-136	1	30	
Bromoform	ug/L	<0.22	20	20	20.3	20.8	101	104	59-137	2	30	
Bromomethane	ug/L	0.62J	20	20	22.1	20.9	107	101	30-150	6	30	
Carbon tetrachloride	ug/L	<0.13	20	20	20.8	20.5	104	103	58-149	1	30	
Chlorobenzene	ug/L	<0.13	20	20	18.5	18.2	93	91	74-125	2	30	
Chloroethane	ug/L	<0.21	20	20	16.4	16.8	82	84	34-150	2	30	
Chloroform	ug/L	<0.23	20	20	19.0	18.5	95	93	54-148	2	30	
Chloromethane	ug/L	0.53J	20	20	17.6	18.2	85	88	38-150	3	30	
cis-1,2-Dichloroethene	ug/L	<0.15	20	20	18.1	18.7	90	93	54-149	3	30	
cis-1,3-Dichloropropene	ug/L	<0.057	20	20	16.4	16.2	82	81	64-130	1	30	
Dibromochloromethane	ug/L	<0.20	20	20	18.1	18.6	91	93	71-135	3	30	
Dibromomethane	ug/L	<0.17	20	20	20.1	19.8	101	99	65-141	2	30	
Dichlorodifluoromethane	ug/L	<0.079	20	20	23.2	24.8	116	124	32-150	7	30	
Dichlorofluoromethane	ug/L	<0.15	20	20	17.7	18.6	89	93	58-150	5	30	
Diethyl ether (Ethyl ether)	ug/L	<0.19	20	20	17.3	17.2	86	86	51-148	0	30	
Ethylbenzene	ug/L	<0.11	20	20	19.2	18.9	96	94	66-126	2	30	
Hexachloro-1,3-butadiene	ug/L	<0.24	20	20	14.4	13.6	72	68	31-150	6	30	
Isopropylbenzene (Cumene)	ug/L	<0.12	20	20	19.9	19.7	99	99	72-133	1	30	
m&p-Xylene	ug/L	<0.20	40	40	38.4	38.0	96	95	69-134	1	30	
Methyl-tert-butyl ether	ug/L	<0.13	20	20	17.5	17.0	87	85	65-137	2	30	
Methylene Chloride	ug/L	<0.33	20	20	17.1	17.0	84	84	59-137	0	30	
n-Butylbenzene	ug/L	<0.096	20	20	15.9	15.7	79	79	52-141	1	30	
n-Propylbenzene	ug/L	<0.11	20	20	18.5	18.6	93	93	53-138	0	30	
Naphthalene	ug/L	<0.18	20	20	16.5	16.7	82	83	56-141	1	30	
o-Xylene	ug/L	<0.18	20	20	18.7	18.5	94	93	73-133	1	30	
p-Isopropyltoluene	ug/L	<0.11	20	20	18.8	18.5	94	93	59-139	2	30	
sec-Butylbenzene	ug/L	<0.097	20	20	18.4	18.5	92	92	60-138	1	30	
Styrene	ug/L	<0.097	20	20	19.9	19.5	100	97	67-138	2	30	
tert-Butylbenzene	ug/L	<0.091	20	20	19.0	18.8	95	94	58-141	1	30	
Tetrachloroethene	ug/L	<0.10	20	20	20.2	19.6	101	98	66-141	3	30	
Tetrahydrofuran	ug/L	<1.4	100	100	111	124	111	124	57-133	11	30	
Toluene	ug/L	<0.10	20	20	18.7	18.3	93	91	69-131	2	30	
trans-1,2-Dichloroethene	ug/L	<0.14	20	20	18.4	18.2	92	91	47-150	1	30	
trans-1,3-Dichloropropene	ug/L	<0.13	20	20	18.9	18.6	95	93	68-129	2	30	
Trichloroethene	ug/L	<0.12	20	20	19.9	20.1	99	101	68-139	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

Parameter	Units	4485894		4485895		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10629571021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Trichlorofluoromethane	ug/L	<0.12	20	20	21.7	22.3	108	112	49-150	3	30	
Vinyl chloride	ug/L	<0.046	20	20	17.4	18.1	87	91	55-150	4	30	
Xylene (Total)	ug/L	<0.20	60	60	57.1	56.5	95	94	68-136	1	30	
1,2-Dichlorobenzene-d4 (S)	%						97	98	75-125			
4-Bromofluorobenzene (S)	%						106	106	75-125			
Toluene-d8 (S)	%						100	99	75-125			

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QUALITY CONTROL DATA

Project: 49161494.02 100 102 SRC GW GEM
Pace Project No.: 10629409

QC Batch: 849431 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10629409001, 10629409002, 10629409003, 10629409004, 10629409005

METHOD BLANK: 4492581 Matrix: Water
Associated Lab Samples: 10629409001, 10629409002, 10629409003, 10629409004, 10629409005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<2.4	5.0	10/26/22 12:59	

LABORATORY CONTROL SAMPLE & LCSD: 4492582 4492583

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	41.3	41.4	103	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4492584 4492585

Parameter	Units	10629789001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	56.6	40	40	96.4	97.6	100	102	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4492586 4492587

Parameter	Units	10630763001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	43.4	40	40	83.7	83.7	101	101	80-120	0	20	

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QUALIFIERS

Project: 49161494.02 100 102 SRC GW GEM

Pace Project No.: 10629409

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.

BATCH QUALIFIERS

Batch: 847600

[1] The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane, bromomethane, acetone, tetrahydrofuran, 4-methyl-2-pentanone (MIBK), and bromoform. Any detection for the analyte in the associated samples may have a high bias.

Batch: 847898

[1] The continuing calibration verification was above the method acceptance limit for bromomethane and tetrahydrofuran. Any detection for the analyte in the associated samples may have a high bias.

Batch: 847958

[1] The continuing calibration verification was above the method acceptance limit for bromomethane and tetrahydrofuran. Any detection for the analyte in the associated samples may have a high bias.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

ES The reported result is estimated because one or more of the constituent results are qualified as such.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494.02 100 102 SRC GW GEM


Pace Project No.: 10629409

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10629409001	MW-1	EPA 200.7	847135	EPA 200.7	847519
10629409002	MW-2	EPA 200.7	847135	EPA 200.7	847519
10629409003	MW-3D	EPA 200.7	847135	EPA 200.7	847519
10629409004	MW-8R	EPA 200.7	847135	EPA 200.7	847519
10629409005	MW-9B	EPA 200.7	847135	EPA 200.7	847519
10629409001	MW-1	EPA 8260D	847600		
10629409002	MW-2	EPA 8260D	847600		
10629409003	MW-3D	EPA 8260D	847600		
10629409004	MW-8R	EPA 8260D	847898		
10629409005	MW-9B	EPA 8260D	847898		
10629409006	Trip Blank	EPA 8260D	847958		
10629409001	MW-1	SM 2320B	849431		
10629409002	MW-2	SM 2320B	849431		
10629409003	MW-3D	SM 2320B	849431		
10629409004	MW-8R	SM 2320B	849431		
10629409005	MW-9B	SM 2320B	849431		

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Effective Date:

Sample Condition Upon Receipt	Client Name: Barr Engineering Co	Project #:	WO# : 10629409  10629409
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Courier: FedEx UPS USPS Client
 Pace Speedee Commercial

Tracking Number: _____ 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 (0178) Type of Ice: Wet Blue Dry None
 T6 (0235) T7 (0042) T8 (0775) 01339252/1710 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: <u>4.2</u> °C Correction Factor: <u>+0.1</u> Cooler Temp Corrected w/temp blank: <u>4.3</u> °C	Average Corrected Temp (no temp blank only): _____ °C <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container
---	---

USDA Regulated Soil: N/A, water sample/other: _____) Date/Initials of Person Examining Contents: 10/12/22 *SW*

Did samples originate in a quarantine zone within the United States: AL, AR, AZ 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 (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input checked="" type="checkbox"/> Duluth <input type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	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. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
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 Chrom <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 Sample Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	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? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
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"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
3 Trip Blanks Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
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 Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Mat A

Project Manager Review: _____ Date: 10/12/22

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).

Effective Date:

Sample Condition Upon Receipt
 Client Name: PAE, W

Project #: **WO# : 10629409**
 PM: MKH Due Date: 10/26/22
 CLIENT: BARR

Courier: FedEx UPS USPS Client
 Pace SpeeDee Commercial

See Exceptions
 Tracking Number: ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: T1 (0461) T2 (1336) T3 (0459) T4 (0254) T5 (0178)
 T6 (0235) T7 (0042) T8 (0775) 01339252/1710
 Biological Tissue Frozen? Yes No N/A
 Temp Blank? Yes No
 Type of Ice: Wet Blue Dry None
 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: 1.7 °C Average Corrected Temp (no temp blank only): _____ °C
 Correction Factor: 10.2 Cooler Temp Corrected w/temp blank: 1.9 °C See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A, water sample other: _____ Date/Initials of Person Examining Contents: JM 10/13/22
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ 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 (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one):	Duluth	<input checked="" type="checkbox"/> Minneapolis	Virginia	COMMENTS
Chain of Custody Present and Filled Out?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input 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 Chrom <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	<input type="checkbox"/> No	6.
Sufficient Sample Volume?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	7.
Correct Containers Used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	8.
-Pace Containers Used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	8.
Containers Intact?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input 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? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> No	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. Sample # <u>001-005</u> <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO3 ^{1/2} <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	pH Paper Lot # Residual Chlorine <u>70810</u> 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	15.
3 Trip Blanks Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
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>386612</u>

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____
 Project Manager Review: [Signature] Date: 10/13/22

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: _____ Line: [Signature]

Attachment B

Monitoring Well Construction and Abandonment Forms

Sealing and Well Construction Records

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Douglas	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 46.69087 _____ N -92.075992 _____ W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input checked="" type="checkbox"/> OTH001
1/4 / 1/4 NW 1/4 NW or Gov't Lot #	Section 36	Township 49 N
Well Street Address 2407 Stinson Ave	Range 14	ZIP Code 54880
Well City, Village or Town Superior	Lot #	
Subdivision Name		

Facility Name Superior Refining Company
Facility ID (FID or PWS) 816009590
License/Permit/Monitoring # MW-3 / T50
Original Well Owner Murphy Oil
Present Well Owner Superior Refining Company
Mailing Address of Present Owner 2407 Stinson Ave
City of Present Owner Superior
State MN
ZIP Code 54880

Reason for Removal from Service
damaged

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 11/2/2004
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.) 2"
--	------------------------------------

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
--------------------------------	--------------------

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
-------------------------------	-----------------------

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
topsoil	Surface	0.1		
sand	0.1	0.8		
bentonite chips 3/8"	0.8	bottom	< 1 bag	

6. Comments

9/1/2022 - bentonite chips added to well, PVC riser cut down to 6 inches bgs, hole was backfilled with sand and topsoil

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Kinzey Schneider	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 09/01/2022	DNR Use Only	
Street or Route 325 South Lake Avenue	City Duluth	State MN	Date Received	Noted By
Telephone Number (218) 529-8200	ZIP Code 55802	Signature of Person Doing Work <i>Kinzey Schneider</i>	Comments	Date Signed 12/1/2022

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Douglas	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 46.690489 N -92.072791 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input checked="" type="checkbox"/> OTH001
1/4 / 1/4 NW 1/4 NW or Gov't Lot #	Section 36	Township 49 N
Well Street Address 4207 Stinson Ave	Range 14	Well ZIP Code 54880
Well City, Village or Town Superior	Lot #	
Subdivision Name	Reason for Removal from Service damaged	WI Unique Well # of Replacement Well _____

Facility Name Superior Refining Company
Facility ID (FID or PWS) 816009590
License/Permit/Monitoring # MW-7
Original Well Owner Murphy Oil
Present Well Owner Superior Refining Company
Mailing Address of Present Owner 4207 Stinson Ave
City of Present Owner Superior
State WI
ZIP Code 54880

3. Filled & Sealed Well / Drillhole / Borehole Information

<input checked="" type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 03/09/1994
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input type="checkbox"/> Borehole / Drillhole	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.) 2"
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
sand	Surface	0.9		
bentonite chips 3/8"	0.9	19.95	~1 bag	

6. Comments








9/01/2022 - bentonite chips added to well, 10/7/2022 - protective well casing removed and PCV riser cut down 6 inches bgs. Hole backfilled with sand.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Kinzey Schneider	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 09/01/2022	DNR Use Only	
Street or Route 325 South Lake Avenue	City Duluth	State MN	Date Received	Noted By
Telephone Number (218) 529-8200	ZIP Code 55802	Signature of Person Doing Work <i>Kinzey Schneider</i>	Comments	Date Signed 12/1/2022

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SRC Facility-Wide GW Monitoring		License/Permit/Monitoring Number 16-16-559511		Boring Number MW-7R	
Boring Drilled By: Name of crew chief (first, last) and Firm Adam Reimer Twin Ports Testing		Date Drilling Started 10/27/2022		Date Drilling Completed 10/27/2022	
WI Unique Well No.		DNR Well ID No.		Common Well Name MW-7R	
		Final Static Water Level		Surface Elevation 700.2 Feet	
				Borehole Diameter 8.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 5,171,185 N, 570,896 E S/C/N		Local Grid Location	
NE 1/4 of NW 1/4 of Section 36, T 49 N, R 14 W		Lat 46° 41' 25.7"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long -94° 4' 22.1"		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 816009590		County Douglas		County Code 16	
				Civil Town/City/ or Village Superior	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID (ppm)	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	G/S/F %	Color	Plasticity Index	
	60 24			Sandy clay with gravel, red brown, moist, sand and gravel, low plasticity	CL			0.2						
			2	Fat clay, red brown, moist to wet, firm, high plasticity				0.3						
			4					0.3						
	60 60		6		CH			0.5						
			8					0.3						
	60 60		10					0.2						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature <i>Jes Pedersen</i>	Firm Barr Engineering Co	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-7R**

Use only as an attachment to Form 4400-122.

Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID (ppm)	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	G/S/F %	Color	Plasticity Index	
			14	Fat clay, red brown, moist to wet, firm, high plasticity <i>(continued)</i>	CH			0.1						
				EOB - 15 ft bgs Well Set - 14.2 ft bgs				0.2						

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SRC Facility-Wide GW Monitoring	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-7R
Facility License, Permit or Monitoring No. 16-16-559511	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>46° 41' 25.7"</u> Long. <u>-94° 4' 22.1"</u> or	Wis. Unique Well No. _____ DNR Well Number _____
Facility ID 816009590	St. Plane <u>5,171,185</u> ft. N, <u>570,896</u> ft. E. S/C/N	Date Well Installed 10/27/2022
Type of Well Well Code 11/mw	Section Location of Waste/Source <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>36</u> , T. <u>49</u> N, R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Adam Reimer
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		Twin Ports Testing

A. Protective pipe, top elevation	<u>703.16</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>702.76</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>700.2</u> ft. MSL	a. Inside diameter:	<u>6.0</u> in.
D. Surface seal, bottom	<u>699.7</u> ft. MSL or <u>0.5</u> ft.	b. Length:	<u>5.4</u> ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		If yes, describe: _____	
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input checked="" type="checkbox"/>		3. Surface seal:	Bentonite <input type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 <u>native clay</u> Other <input checked="" type="checkbox"/>
Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/>
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8
14. Drilling method used:	Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used:	Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9	7. Fine sand material: Manufacturer, product name & mesh size	a. <u>#10 Fine Sand</u> b. Volume added <u>6</u> ft ³
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>Red Flint #30</u> b. Volume added <u>3.75</u> ft ³
Describe _____		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):		10. Screen material:	<u>PVC</u>
		a. Screen Type:	Factory cut <input type="checkbox"/> 1 1 Continuous slot <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
E. Bentonite seal, top	<u>700.2</u> ft. MSL or <u>0.0</u> ft.	b. Manufacturer _____	
F. Fine sand, top	<u>697.4</u> ft. MSL or <u>2.8</u> ft.	c. Slot size: _____ in.	
G. Filter pack, top	<u>696.8</u> ft. MSL or <u>3.4</u> ft.	d. Slotted length: <u>10.0</u> ft.	
H. Screen joint, top	<u>696.0</u> ft. MSL or <u>4.2</u> ft.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
I. Well bottom	<u>686.0</u> ft. MSL or <u>14.2</u> ft.		
J. Filter pack, bottom	<u>685.2</u> ft. MSL or <u>15.0</u> ft.		
K. Borehole, bottom	<u>685.2</u> ft. MSL or <u>15.0</u> ft.		
L. Borehole, diameter	<u>8.3</u> in.		
M. O.D. well casing	<u>14.20</u> in.		
N. I.D. well casing	<u>2.00</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jes Pedersen Firm Barr Engineering Co Tel: _____ Fax: _____

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name SRC Facility-Wide GW Monitoring			License/Permit/Monitoring Number 16-16-559511		Boring Number MW-19R	
Boring Drilled By: Name of crew chief (first, last) and Firm Adam Reimer Twin Ports Testing			Date Drilling Started 10/28/2022		Date Drilling Completed 10/28/2022	
WI Unique Well No.		DNR Well ID No.	Common Well Name MW-19R		Final Static Water Level	
					Surface Elevation 658.9 Feet	
					Borehole Diameter 8.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>			Lat 46° 41' 5.4"		Local Grid Location	
State Plane 5,170,562 N, 571,096 E S/C/N			Long -94° 4' 13.1"		<input type="checkbox"/> N <input type="checkbox"/> E	
SE 1/4 of NW 1/4 of Section 36, T 49 N, R 14 W					<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID 816009590		County Douglas		County Code 16		Civil Town/City/ or Village Superior

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID (ppm)	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	G/S/F %	Color	Plasticity Index	
	60 48			Fat clay, moist, red brown, with grass roots, firm, high plasticity	CH			0.4						
			2	Fat clay, moist to wet, red brown, hard, firm from 10 to 15, high plasticity				0.4						
			4					0.3						
	60 60		6		CH			0.1						
			8				0.2							
	60 60		10				0.2							
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.


Signature <i>Jes Pedersen</i>	Firm Barr Engineering Co	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-19R**

Use only as an attachment to Form 4400-122.

Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID (ppm)	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	G/S/F %	Color	Plasticity Index	
			14	Fat clay, moist to wet, red brown, hard, firm from 10 to 15, high plasticity (<i>continued</i>)	CH			0.3						
				EOB - 15 ft bgs Well Set - 14.2 ft bgs				0.3						

Facility/Project Name SRC Facility-Wide GW Monitoring		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-19R	
Facility License, Permit or Monitoring No. 16-16-559511		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>46° 41' 5.4"</u> Long. <u>-94° 4' 13.1"</u> or		Wis. Unique Well No. _____ DNR Well Number _____	
Facility ID 816009590		St. Plane <u>5,170,562</u> ft. N, <u>571,096</u> ft. E. S/C/N		Date Well Installed 10/28/2022	
Type of Well Well Code 11/mw		Section Location of Waste/Source <u>SE</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>36</u> , T. <u>49</u> N, R. <u>14</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Adam Reimer	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Twin Ports Testing	

<p>A. Protective pipe, top elevation _____ 661.75 ft. MSL</p> <p>B. Well casing, top elevation _____ 661.35 ft. MSL</p> <p>C. Land surface elevation _____ 658.9 ft. MSL</p> <p>D. Surface seal, bottom _____ 658.4 ft. MSL or _____ 0.5 ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 _____ Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ 658.9 ft. MSL or _____ 0.0 ft.</p> <p>F. Fine sand, top _____ 656.0 ft. MSL or _____ 2.9 ft.</p> <p>G. Filter pack, top _____ 655.4 ft. MSL or _____ 3.5 ft.</p> <p>H. Screen joint, top _____ 654.7 ft. MSL or _____ 4.2 ft.</p> <p>I. Well bottom _____ 644.7 ft. MSL or _____ 14.2 ft.</p> <p>J. Filter pack, bottom _____ 643.9 ft. MSL or _____ 15.0 ft.</p> <p>K. Borehole, bottom _____ 643.9 ft. MSL or _____ 15.0 ft.</p> <p>L. Borehole, diameter _____ 8.3 in.</p> <p>M. O.D. well casing _____ 14.20 in.</p> <p>N. I.D. well casing _____ 2.00 in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ 6.0 in. b. Length: _____ 5.3 ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 _____ Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 _____ native clay _____ Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 _____ Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ #10 Fine Sand b. Volume added _____ 6 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Red Flint #30 b. Volume added _____ 3.75 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 _____ Other <input type="checkbox"/></p> <p>10. Screen material: _____ PVC a. Screen Type: Factory cut <input type="checkbox"/> 1 1 Continuous slot <input checked="" type="checkbox"/> 0 1 _____ Other <input type="checkbox"/></p> <p>b. Manufacturer _____ c. Slot size: _____ in. d. Slotted length: _____ 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 _____ Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jes Pedersen Firm Barr Engineering Co Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.