

January 6, 2022

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

**Re: 2021 Remediation Progress Report for Murphy Oil Tank 68 Release Site
Superior Refining Company LLC Refinery, Superior, WI
WDNR BRRTS# 02-16-526812
Facility ID: 816009590**

Dear John:

On behalf of Superior Refining Company LLC (SRC), Barr Engineering Co. (Barr) is submitting this remediation progress report for the Murphy Oil Tank 68 Basin release site (Tank 68) at 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 2021.

1.0 Facility and Site Background Information

Figure 1 shows the location of Tank 68 within the refinery, the approximate property boundary of the refinery, and the area surrounding the refinery. Figure 2 presents the site layout of Tank 68 which is located in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 25, Township 49 North, Range 14 West, Superior Township of Douglas County, Wisconsin.

The closest surface water to Tank 68 is Newton Creek, located approximately 2,000 feet east of the Tank 68 basin (Figure 1). The Tank 68 basin is located in the central area of the refinery which is relatively flat. The basin's ground surface is unpaved and is underlain by native clay. The average depth to groundwater in the Tank 68 monitoring wells is 3 to 4 feet below ground surface (bgs) depending on time of year. The regional groundwater flow direction below the refinery and across the Tank 68 site is toward the east (Figure 2).

As presented in the April 2014 Gannett Fleming, Inc. (GF) *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan* (GF, 2014), the hydraulic conductivity of the native clay underlying the refinery is on the order of 1×10^{-7} centimeters per second (cm/sec). Assuming a horizontal hydraulic gradient of 0.003 feet per foot 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 November 2017, Husky Superior Refining Holding Corp. (Husky Superior) purchased Calumet and changed its legal name to Superior Refining Company LLC. In January 2021, Husky and Cenovus Energy Inc. (Cenovus) merged to become Cenovus; however, the legal name of the refinery will remain unchanged.

2.0 Tank 68 Basin Release Site Investigation and Remediation Summary

The Tank 68 release is associated with historical contamination discovered during an investigation at the adjacent Tank 65-66 basin in 2004. The Tank 68 basin monitoring network currently includes monitoring wells MW-5/T66, MW-1/T68, MW-2/T68, and MW-4/T68, MW-5/T68, and MW-6/T68 and monitoring points MP-1/T68, MW-2/T68, MP-3/T68, as shown on Figure 2. In 2001, MW-5/T66 was transferred from the Tanks 65/66 release site to the Tank 68 basin site because of the occurrence of free product in MW-5/T66. The free product in MW-5/T66 was first observed in January 2000 during a site investigation associated with the Tanks 65/66 basin east of Tank 68. This location has not been associated with any known release. In 2008, upgradient monitoring well MW-3/T68 was sealed and abandoned. During the time period 2010 to 2012, test pit sump TP-1/T68 was lost (buried or removed).

Multiple phases of investigation have been completed at the site including soil borings and test pits and the installation of monitoring wells and points. Currently, long-term groundwater monitoring is being conducted at the site as well as product gauging and passive recovery. This report presents monitoring and product gauging data for 2021.

Research conducted by the American Petroleum Institute (API) and published in a 2004 document titled, "*API Interactive LNAPL Guide, Version 2.0*", found that periodic manual removal of product is most appropriate for low permeability aquifers (hydraulic conductivity $< 1 \times 10^{-5}$ cm/sec). The hydraulic conductivity of the native clay underlying the refinery is on the order of 1×10^{-7} cm/sec, as described in the previous section of this letter report (GF, 2014).

Based on the recommendations included in the API Interactive LNAPL Guide document, product has been manually bailed when observed in a monitoring well. The API Interactive LNAPL Guide also states that product preferentially accumulates in wells when the potentiometric surface is low. This occurs because, as the potentiometric surface drops, product that remains above the water level will drain downward into the well. As the potentiometric surface rises, the product becomes submerged and trapped in the soil pores and subsequently will not accumulate in the well. To take advantage of this apparent pattern, the wells located in the basin were purged dry following each depth to product or groundwater measurement event to promote the accumulation of product.

Since February 2000, wells in the network have been routinely monitored for the presence of free product. Recovered product is sent through the refinery's No. 1 API oil/water separator. Separated oil is stored for use at the refinery. Separated and purged water is treated at the on-site wastewater treatment plant (WWTP).

As described in previous reports, measurable product has been encountered in the monitoring wells associated with the Tank 68 basin on multiple occasions. GF's April 2014 report includes a 15-page table summarizing the historical volume of product removed from each well (GF, 2014). Since recovery began, approximately 102 gallons of product have been recovered from the Tank 68 basin with almost all (i.e., over 97%) from MW-2/T68, MW-5/T66, and MW-6/T68 (GF, 2019). Since 2014, product has been limited to MW-5/T-66 and MW-5/T68. In each instance where product was measured in these wells, it was recovered through bailing. Product has not been encountered in MW-5/T66 since April 2019 and in MW-

5/T68 since November 2018 as seen on Table 1 in the 2020 remediation progress report submitted to the WDNR (Barr, 2021).

3.0 Remedial and Monitoring Activities in 2021

Since the most recent remediation progress report was submitted to the WDNR on February 26, 2021 (Barr, 2021), work at Tank 68 has included the gauging of water and product levels in associated site monitoring wells and points, and the collection of groundwater samples from select locations.

Year-round access to monitoring wells and points at the refinery is not practical because of relatively shallow groundwater, cold weather, and snow. When conditions allow access, water and product levels are monitored monthly. If product is encountered, the product is removed and sent through the refinery's No. 1 API oil/water separator. Separated oil is stored for used at the refinery and the water is treated at the on-site WWTP.

Monitoring wells and points are gauged, purged and sampled in spring and fall (typically April/May and September/October). Monitoring wells and points are routinely checked for the presence of product and, if encountered, the product is removed from the well by bailing. Monitoring and sampling activities conducted in 2021 are summarized in Table 1.

3.1 Product Recovery

During this reporting period, measurable product was not encountered in the monitoring wells or monitoring points. As established in the 2019 report (GF, 2019), if free product is not observed during the April/May gauging event, the wells and points are then checked quarterly (rather than monthly) through the October sampling event.

SRC will continue to check for free product, but for all practical purposes, free product likely has been recovered to the extent practical from the Tank 68 basin.

3.2 Groundwater Sampling and Results

Groundwater samples were collected by Barr and Insight Environmental (Insight) field staff at the site during May and October 2021. Each well was purged dry twice and allowed to recover for at least 14 days between purge events and prior to the collection of the samples. Routine sampling of monitoring wells MW-1/T68, MW-2/T68, MW-4/T68, MW-5/T66, MW-5/T68, and MW-6/T68 was conducted on May 24, 2021 and October 4, 2021. Field staff used a new one-time-use polyethylene disposable bailer with new nylon rope to collect each groundwater sample. The May 2021 groundwater samples were sent to Pace Analytical (Pace) in Green Bay, Wisconsin (Wisconsin laboratory certification #405132750) and the October 2021 samples were sent to Pace in Minneapolis, Minnesota (Wisconsin laboratory certification #999407970). Groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260.

Table 2 presents the analytical results of the groundwater samples compared to the NR 140 Preventative Action Limits (PAL) and Enforcement Standards (ES). As shown in Table 2:

- There were no compounds detected above the laboratory method detection limits (MDLs) in samples collected from upgradient well MW-1/T68 during the May and October 2021 events.

- Samples collected from the other five Tank 68 monitoring wells in May and October 2021 contained one or more VOC at concentrations equal to or greater than NR 140 ESs. However, because of the recovery of product over the years, overall VOC concentrations in the wells have been stable or decreasing, as demonstrated by the benzene concentrations shown in Figure 3.
- Figure 3 presents trend analysis plots for benzene concentrations in groundwater samples from MW-2/T68, MW-4/T68, MW-5/T66, and MW-6/T68. If benzene was not detected in a sample collected from a well, then the reported MDL was plotted for that date. Note that, with one exception, the plotted data for each well only includes the time since measurable free product was most recently encountered during a sampling event; at MW-6/T68 “discontinuous globules” of product were observed in 2016 and data is plotted starting with October 2011. Best-fit exponential trend lines were generated using a scatter plot chart. As shown on Figure 3, dissolved-phase benzene concentrations have followed a general downward trend in MW-2/T68, MW-4/T68, MW-5/T66, and MW-6/T68. Based on the relatively low groundwater flow velocity of approximately 0.01 foot/year (GF, 2014) and decreasing benzene concentrations, results indicate the overall benzene concentration in groundwater in the referenced wells remains stable or has been decreasing for at least the last six years.
- The VOC compound chloroform had reported detections for the first time in the October 2021 samples: MW-5/T68 (18.4 ug/l) and MW-6/T68 (21.2 ug/l). The concentrations of chloroform in each sample exceeded the NR 140 ES of 6 ug/l; note that both concentrations were flagged by the laboratory as an estimated concentration between the limit of detection and the limit of quantitation.

Attachment A provides copies of the laboratory reports and chain of custody records for the groundwater samples collected in 2021.

Historically, a groundwater contour map for the Tank 68 release site has not been prepared because groundwater levels in the wells either are influenced by local surface/melt water in the spring or typically do not have sufficient time to reach static levels after they are purged dry later in the year. Consequently, a groundwater contour map representing static conditions for the Tank 68 site has not been created. However, the regional groundwater flow direction in the vicinity of the Tank 68 site is to the east (GF, 2014) (Figure 2).

4.0 Future Work

SRC’s work plan for 2022 is as follows:

- Continue to check for, and if present, manually bail product, monthly (as conditions allow) from monitoring wells MW-5/T66 and MW-5/T68. If, however, product is not observed during the spring gauging event as was the case in 2019, 2020, and 2021, these wells will only be checked quarterly. Any purged product/water will continue to be separated and stored or sent through the refinery’s No. 1 API oil/water separator and on-site WWTP.
- Discontinue monthly/quarterly product checks at the remaining four wells (MW-1/T68, MW-2/T68, MW-4/T68 and MW-6/T68) and three monitoring points (MP-1/T68, MP-2/T68, and MP-3/T68). If, however, product is observed during the spring gauging event, monthly monitoring of these locations will resume. If product is not observed, the wells and points will only be checked during the spring and fall sampling events.

- Collect biannual (spring and fall) groundwater samples from monitoring wells without product and have the samples analyzed for VOCs by a Wisconsin-certified laboratory using EPA Method 8260. Each monitoring well will be purged dry twice and allowed to recover for approximately 2 weeks prior to the collection of samples.

Feel free to contact Matt Turner at SRC and/or me if you have any comments, questions, or need additional information.

Sincerely,

BARR ENGINEERING CO.



Lynette M. Carney
Project Manager

cc: Matt Turner (SRC)

Tables

Table 1 2021 Fluid Level Monitoring Data
Table 2 Historical Groundwater Analytical Results for Detected Compounds

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Figure 1 Site Location Map
Figure 2 Tank 68 Site Layout and Monitoring Locations
Figure 3 Benzene Groundwater Concentrations vs. Time,
MW-2/68, MW-4/68, MW-5/T66 and MW-6/T68

Attachments

Attachment A Pace Analytical Laboratory Reports

References

- Barr Engineering Co., 2021. *2020 Remediation Progress Report for Murphy Oil Tank 68 Release Site, Superior Refining Company LLC Refinery, Superior, WI, WDNR BRRTS# 02-16-526812, Facility ID: 816009590*. February 26, 2021.
- Gannett Fleming, Inc. (GF), 2014. *Final Memorandum of Agreement, Site Investigation and Remedial Action Plan, Superior Refinery, Superior, Wisconsin, WDNR BRRTS# 02-16-559511*. April 2014.
- GF, 2019. *2019 Remediation Progress Report for Tank 68 Release Site, Superior Refining Company LLC Refinery, Superior, WI, WDNR BRRTS# 02-16-526812 and Facility ID: 816009590*. December 4, 2019.
- Wisconsin Department of Natural Resources (WDNR), 2020. *Reminder to Include Evaluation of Emerging Contaminants in Site Investigation, Murphy Oil – Tank Basin #68, 2407 Stinson Avenue, BRRTS# 02-16-526812*. Letter to Husky Energy dated August 17, 2020.
- WDNR, 2021. *Activity Details summary table page for Activity Number 02-16-526812 Murphy Oil – Tank Basin #68*. Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web. <https://dnr.wisconsin.gov/topic/Brownfields/botw.html>. Accessed January 2021.

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

January 6, 2022

Date

Tables

Table 1
2021 Fluid Level Monitoring Data
Tank 68 Release Site
Superior Refining Company LLC
Superior, Wisconsin

Date	MP-1/T68		MP-2/T68		MP-3/T68		MW-1/T68		MW-2/T68		MW-4/T68		MW-5/T66		MW-5/T68		MW-6/T68		Comments/ Footnotes	
	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW		
	Depth to Fluid from Top of Casing (feet)																			
04/28/21	--	5.59	--	6.12	--	4.91	--	4.29	--	4.32	--	3.96	--	3.45	--	3.69	--	3.76	(2)	
05/11/21	--	6.11	--	6.76	--	5.54	--	5.22	--	4.99	--	4.66	--	4.46	--	6.94	--	4.69	(2)	
05/24/21	--	6.63	--	6.18	--	5.48	--	4.39	--	4.51	--	4.39	--	3.75	--	8.29	--	5.15	(3)	
07/27/21	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	--	3.47	--	5.08	nm	nm	Checked for FP
09/08/21	--	7.27	--	6.02	--	6.98	--	6.80	--	5.73	--	6.63	--	5.23	--	5.59	--	4.68	(2)	
09/21/21	--	5.67	--	6.19	--	4.92	--	4.49	--	4.69	--	3.99	--	3.72	--	8.28	--	7.00	(2)	
09/08/21	--	5.72	--	6.25	--	5.35	--	4.51	--	4.48	--	4.08	--	3.77	--	10.09	--	8.22	(3)	

NOTES:

DTP = Depth to product.

DTW = Depth to water.

nm = Not measured.

-- = Not applicable/no free product (FP).

FOOTNOTES:

(2) Bailed the MWs dry in preparation for sampling.

(3) Sampled the MWs (see Table 2 for summary of analytical results).

Table 2
Historical Groundwater Analytical Results for Detected Compounds
Tank 68 Release Site (1)
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (ug/l) and Results Qualifiers (if any)																									
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl Isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	p-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Chloroethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	p-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachlorethene	Dissolved Lead	
NR 140 PAL	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	0.6	3	0.5	NS	NS	NS	NS	NS	NS	10	40	0.5	1.5
NR 140 ES	NS	5	700	800	2,000	480	60	500	100	NS	NS	NS	NS	6	30	5	NS	NS	NS	NS	NS	NS	100	200	5	15
MW-1/T68	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
3/6/2002	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
5/17/2002	820	< 0.43	5.3	7.1	< 1.45	13.8	< 0.49	(2)	< 1.4	< 0.42	19	4.2	2.7	(2)	< 0.69	< 0.54	< 0.30	< 0.30	4.6	5.5	5.1	(2)	< 0.2	< 1	na	
9/12/2002	< 50	< 0.45	< 0.82	< 0.68	< 2.47	< 1.86	< 0.43	(2)	< 0.89	na	na	na	na	(2)	na	na	na	na	na	na	na	na	(2)	na	na	na
3/12/2003	< 50	< 0.45	< 0.82	< 0.68	< 2.47	< 1.86	< 0.43	(2)	< 0.89	na	na	na	na	(2)	na	na	na	na	na	na	na	na	(2)	na	na	na
9/30/2004	< 50	< 0.14	< 0.40	< 0.36	< 1.10	< 0.79	< 0.36	(2)	< 0.47	na	na	na	na	(2)	na	na	na	na	na	na	na	na	(2)	na	na	na
5/26/2005	< 50.0	< 0.31	< 0.5	< 0.3	< 0.92	< 0.71	< 0.3	(2)	< 0.8	< 0.41	< 0.36	< 0.4	< 0.4	(2)	< 0.29	< 0.4	na	< 0.30	< 0.31	< 0.5	< 0.3	(2)	< 0.2	< 0.3	na	
11/9/2005	< 50.0	< 0.31	< 0.5	< 0.3	< 0.92	< 0.71	< 0.3	(2)	< 0.8	< 0.41	< 0.36	< 0.4	< 0.4	(2)	< 0.29	< 0.4	na	< 0.30	< 0.31	< 0.5	< 0.3	(2)	< 0.2	< 0.3	na	
5/10/2006	< 50.0	< 0.31	< 0.50	< 0.30	< 0.92	< 0.71	< 0.30	(2)	< 0.80	< 0.41	< 0.36	< 0.40	< 0.40	(2)	< 0.29	< 0.40	na	< 0.30	< 0.31	< 0.50	< 0.30	(2)	< 0.2	< 0.3	na	
11/16/2006	< 50.0	< 0.15	< 0.10	< 0.40	< 0.50	< 0.30	< 0.10	(2)	< 1.00	< 0.10	< 0.20	< 0.15	< 0.15	(2)	< 0.20	< 0.10	0.56 J	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.3	na	
5/23/2007	< 50.0	< 0.20	< 0.10	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.3	na	
11/15/2007	< 50.0	< 0.20	< 0.10	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.3	na	
5/27/2008	68	< 0.20	< 0.10	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.3	na	
11/24/2008	< 50.0	< 0.20	1.55	3.23	10.16	6.97	< 0.50	(2)	< 1.00	< 0.20	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.50	< 0.30	< 0.16 J	< 0.20	< 0.10	(2)	< 0.2	< 0.3	na	
5/27/2009	< 50.0	< 0.20	< 0.20	< 0.40	< 0.60	< 0.40	< 0.50	(2)	< 1.00	< 0.30	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.80	< 0.30	< 0.10	< 0.40	< 0.10	(2)	< 0.5	< 0.3	na	
11/23/2009	52.6	< 2.00	78.0	9.88 J	514	90	< 5.00	(2)	< 10.0	< 3.00	< 4.00	< 3.00	< 3.00	(2)	< 4.00	< 3.00	< 8.00	na	2.48 J	< 4.00	< 1.00	(2)	< 5.00	< 0.3	na	
5/19/2010	< 50.0	< 0.20	< 0.20	< 0.40	< 0.60	< 0.40	< 0.50	(2)	< 1.00	< 0.30	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.80	< 0.30	< 0.10	< 0.40	< 0.10	(2)	< 0.5	< 0.3	na	
10/21/2010	< 50.0	< 0.20	< 0.20	< 0.40	< 0.60	< 0.40	< 0.50	(2)	< 1.00	< 0.30	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.80	< 0.30	< 0.10	< 0.40	< 0.10	(2)	< 0.50	0.90 J	na	
6/16/2011	na	< 0.20	< 0.20	< 0.40	< 0.60	< 0.40	< 0.50	(2)	< 1.00	< 0.30	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.80	< 0.30	< 0.20	< 0.40	< 0.20	(2)	< 0.50	< 0.30	na	
10/25/2011	na	< 0.20	< 0.20	< 0.40	< 0.60	< 0.40	< 0.50	(2)	< 1.00	< 0.30	< 0.40	< 0.30	< 0.30	(2)	< 0.40	< 0.30	< 0.80	< 0.30	< 0.20	< 0.20	< 0.20	(2)	< 0.50	< 0.30	na	
5/16/2012	na	< 0.41	< 0.54	< 0.67	< 2.63	< 1.80	< 0.61	(2)	< 0.89	< 0.82	< 0.93	< 0.89	< 0.97	(2)	< 0.24	< 0.36	< 0.75	na	< 0.59	< 0.67	< 0.81	(2)	< 0.90	< 0.45	na	
8/21/2013	na	< 0.50	< 0.50	< 0.44	< 1.32	< 3.07	< 0.49	(2)	< 2.5	< 0.48	< 0.40	< 0.60	< 0.42	(2)	< 0.39	< 0.48	< 0.51	na	< 0.34	< 0.40	< 0.50	(2)	< 0.44	< 0.47	na	
6/24/2014	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
10/21/2014	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
6/23/2015	na	< 0.50	0.57 J	2.3	2.92 J	< 1.36 J	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
10/6/2015	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
5/24/2016	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
10/5/2016	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
5/16/2017	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
10/25/2017	na	< 0.50	< 0.50	2.3	2.38 J	< 1.08 J	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na	
6/12/2018	na	< 0.50	< 0.50	< 0.50	< 1.50	< 1.00	< 0.17	(2)	na	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.17	< 0.44	na	< 0.14	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	na
10/9/2018	na	< 0.25	< 0.22	0.22 J	< 0.90 J	< 2.37 J	< 1.2	na	< 1.2	< 0.24	< 0.71	< 0.85	< 0.30	(2)	< 2.2	< 0.28	< 0.54	na	< 0.39	< 0.80	< 0.81	< 0.47	< 0.24	< 0.33	na	
5/21/2019	na	< 0.25	< 0.22	< 0.17	< 0.73	< 1.71	< 1.2	na	< 1.2	< 0.24	< 0.71	< 0.85	< 0.30	(2)	< 2.2	< 0.28	< 0.54	na	< 0.39	< 0.80	< 0.81	< 0.47	< 0.24	< 0.33	na	
10/9/2019	na	< 0.25	0.38 J	0.37 J	4.9	8.9 J	< 1.2	na	< 1.9 J	< 0.24	< 0.71	< 0.85	< 0.30	(2)	< 2.2	< 0.28	< 0.54	na	< 0.39	< 0.80	< 0.81	< 0.47	< 0.24	< 0.33	na	
5/27/2020	na	< 0.25	< 0.32	< 0.27	< 0.73	< 1.71	< 1.2	na	< 1.2	< 0.24	< 0.71	< 0.85	< 0.30	(2)	< 2.2	< 0.28	< 0.54	< 1.9	< 1.7	< 0.80	< 0.81	< 3.0	< 0.24	< 0.33	na	
10/6/2020	na	< 0.12	< 0.075	< 0.12	< 0.29	< 0.29	< 0.12	< 0.54	< 0.68	< 0.13	< 0.16	< 0.15	< 0.13	< 0.48	< 0.42	< 0.25	< 0.22	na	< 0.13	< 0.18	< 0.18	< 0.11	< 0.17	< 0.17	na	
5/24/2021	na	< 0.30	< 0.33	< 0.29	< 1.05	< 0.81	< 1.1	na	< 1.1	< 0.36	< 0.86	< 0.42	< 0.59	< 1.2	< 1.6	< 0.29	< 0.41	< 1.1	< 1.0	< 1.0	< 0.35	< 0.36	< 0.30	< 0.41	na	
10/4/2021	na	< 0.12	< 0.069	< 0.11	< 0.30	< 0.22	< 0.18	na	< 0.20	< 0.18	< 0.052	< 0.14	< 0.11	< 0.14	< 0.22	< 0.14	< 0.12	na	< 0.11	< 0.12	< 0.090	< 0.13	< 0.17	<		

Table 2
Historical Groundwater Analytical Results for Detected Compounds
Tank 68 Release Site (1)
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (ug/l) and Results Qualifiers (if any)																										
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl Isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	p-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Chloroethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Propyltoluene	p-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachloroethene	Dissolved Lead		
NR 140 PAL	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	0.6	3	0.5	NS	NS	NS	NS	NS	NS	10	40	0.5	1.5	
NR 140 ES	NS	5	700	800	2,000	480	60	500	100	NS	NS	NS	NS	6	30	5	NS	NS	NS	NS	NS	100	200	5	15		
10/21/2010	245000	32300	4380	41200	37800	12330	< 500	(2)	1180 J	< 300	< 400	< 300	< 300	(2)	< 400	1510	< 800	< 300	266 J	< 400	< 200	(2)	< 500	< 300	na		
6/16/2011	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	
10/25/2011	na	29600	2760	34800	18150	3670	< 100	(2)	451 J	< 60.0	< 80.0	< 60.0	< 60.0	(2)	< 80.0	< 60.0	< 160	na	111 J	< 80.0	< 40.0	(2)	< 100	< 60.0	na		
5/16/2012	na	24600	1950	29200	16780	2906	< 76.2	(2)	324 J	< 102	< 116	< 111	< 121	(2)	< 30.0	1700	< 93.8	na	< 73.8	< 83.8	149	(2)	< 112	< 56.2	na		
8/21/2013	na	23800	2290	28300	20740	5310	< 98.7	(2)	604 J	< 96.7	121 J	< 121	< 84.9	(2)	< 77.5	930	< 101	na	92.3 J	< 79.4	277	(2)	< 94.4	< 88.6	na		
6/24/2014	na	23700	892	21300	16270	2757	< 43.6	(2)	< 625	< 57.5	< 125	< 547	< 45.1	(2)	< 125	1220	< 110	na	< 35.8	< 125	< 125	(2)	< 125	< 125	na		
10/21/2014	na	25400	975	24700	15820	2149	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	1180	< 88.2	na	< 28.7	< 100	< 100	(2)	< 100	< 100	na		
6/23/2015	na	10100	203	11500	17270	3140	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	355	< 88.2	na	< 28.7	< 100	< 100	(2)	< 100	< 100	na		
10/6/2015	na	18300	995	18500	15000	2627	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	894	< 88.2	na	< 28.7	< 100	< 100	(2)	< 100	< 100	na		
5/24/2016	na	21400	1370	22200	16160	2663	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	1260	< 88.2	na	48.3 J	< 100	104 J	(2)	< 100	< 100	na		
10/5/2016	na	20900	1350	20300	15370	2673	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	1150	< 88.2	na	45.3 J	< 100	105 J	(2)	< 100	< 100	na		
5/16/2017	na	22100	933	19200	15400	3192	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	1420	< 88.2	na	< 28.7	< 100	< 100	(2)	< 100	< 100	na		
10/25/2017	na	30600	1170	24500	19550	3122	< 43.6	(2)	< 625	< 57.5	< 125	< 547	< 45.1	(2)	< 125	1610	< 110	na	< 35.8	< 125	< 125	(2)	< 125	< 125	na		
6/12/2018	na	24200	1550	25500	19050	2703	< 34.8	na	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	1240	< 88.2	na	32.8 J	< 100	< 100	< 100	< 100	< 100	na		
10/9/2018	na	18600	1120	16100	15370	3389	< 249	na	292 J	< 48.2	< 142	< 170	< 60.8	(2)	< 438	1520	< 108	na	< 78.6	< 160	< 162	< 93.1	< 49.0	< 65.3	na		
5/21/2019	na	106	3.6	105	999	434	< 1.2	na	23.8	< 0.24	< 0.71	19.3	< 0.30	(2)	< 2.2	8.0	< 0.54	na	< 0.39	< 0.80	< 0.81	< 0.47	< 0.24	< 0.33	na		
10/9/2019	na	2240	17.8 J	1330	5060	1601	< 49.8	na	98.3 J	< 9.6	< 28.3	< 33.9	< 12.2	(2)	< 87.6	287	< 21.6	na	< 15.7	< 32.0	< 32.4	< 18.6	< 9.8	< 13.1	na		
5/27/2020	na	9570	525	7520	8520	2226	< 62.3	na	173 J	< 12.1	< 35.4	< 42.4	< 15.2	(2)	< 63.7	< 109	941	< 27.0	< 94.4	< 84.3	< 40.0	< 40.5	< 150	< 12.2	< 16.3	na	
10/6/2020	na	18600	1250	15000	16300	3525	< 5.8	76.2 J	333	< 6.6	8.6 J	< 7.3	< 6.4	< 24.2	< 21.2	1070	< 11.0	na	34.1	9.1 J	83.2	< 5.5	< 8.5	< 8.7	na		
5/24/2021	na	2200	99.2	1670	2445	759	< 11.3	na	54.0	< 3.6	8.6	< 4.2	< 5.9	< 11.8	< 16.4	< 2.9	< 4.1	< 11.0	< 10.0	< 10.4	3.8 J	< 3.6	< 3.0	< 4.1	na		
10/4/2021	na	4820	233	3520	5620	1462	< 1.6 H	na	150 H	< 1.3 H	20.7 H	< 1.5 H	< 1.7 H	< 1.6 H	< 1.8 H	364	< 2.6 H	na	7.1 H	3.2 H	17.0 H	< 0.88 H	< 1.8 H	< 2.5 H	na		
MW-3/T68	Filled and sealed																										
3/12/2003	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/30/2004	< 50	< 0.41	< 0.54	< 0.67	< 2.63	< 1.8	< 0.61	(2)	< 0.74	< 0.82	< 0.93	< 0.89	< 0.97	(2)	< 0.24	< 0.36	< 0.75	< 0.30	< 0.59	< 0.67	< 0.81	(2)	< 0.2	< 0.45	na		
5/26/2005	96.8	15.6	0.636 J	0.44 J	1.25 J	4.78 J	< 0.3	(2)	1.38 J	< 0.8	1.61	< 0.4	< 0.4	(2)	< 0.29	< 0.4	na	< 0.30	< 0.31	< 0.5	< 0.3	(2)	< 0.2	< 0.45	na		
11/9/2005	< 50.0	< 0.31	< 0.5	< 0.3	< 0.92	< 0.71	< 0.3	(2)	< 0.8	< 0.41	< 0.36	< 0.4	< 0.4	(2)	< 1.00	< 0.4	na	< 0.30	< 0.31	< 0.5	< 0.3	(2)	< 0.2	< 0.45	na		
5/10/2006	< 50.0	9.77	< 0.50	< 0.30	1.93 J	3.09 J	< 0.30	(2)	< 0.80	< 0.41	< 0.36	< 0.40	< 0.40	(2)	< 0.29	< 0.40	na	< 0.30	< 0.60	< 0.50	< 0.30	(2)	< 0.2	< 0.71	na		
11/16/2006	< 50.0	< 0.15	< 0.10	< 0.40	< 0.50	< 0.30	< 0.10	(2)	< 1.00	< 0.10	< 0.20	< 0.15	< 0.15	(2)	< 0.20	< 0.10	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.10	na		
5/23/2007	< 50.0	< 0.20	0.10 J	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.30	na		
11/15/2007	< 50.0	< 0.20	< 0.10	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.30	na		
5/27/2008	< 50.0	< 0.20	< 0.10	< 0.40	< 0.60	< 0.40	< 0.20	(2)	< 1.00	< 0.20	< 0.20	< 0.20	< 0.20	(2)	< 0.30	< 0.20	< 0.30	< 0.30	< 0.10	< 0.20	< 0.10	(2)	< 0.2	< 0.30	na		
11/24/2008	Filled and sealed																										
MW-4/T68	Filled and sealed																										
3/12/2003	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/30/2004	5500	650	260	49	1090	560	< 3.0	(2)	38	< 4.1	< 4.6	< 4.4	< 4.8	(2)	< 1.2	< 1.8	< 3.8	< 30.0	17	15	24	(2)	< 20.0	< 30.0	na		
5/26/2005	12800	2560	402	44.3	2857	1522	< 30.0	(2)	132	< 41.0	< 36.0	< 40.0	< 40.0	(2)	< 29.0	< 40.0	na	< 30.0	37.3	< 50.0	< 30.0	(2)	< 20.0	< 30.0	na		
11/9/2005	12100	2730	650	59.9	3555	1439	< 15.0	(2)	114	< 20.5	< 18.0	< 20.0	< 20.0	(2)	< 14.5	< 20.0	na	< 30.0	47	< 25.0	51.8	(2)	< 20.0	< 30.0	na		
5/10/2006	15700	5350	462	125	4280	1622	< 30.0	(2)	154 J	< 41.0	166	< 40.0	< 40.0	(2)	< 29.0	< 40.0	na	< 30.0	< 31.0	< 50.0	< 30.0	(2)	< 20.0	< 30.0	na		
11/16/2006	15300	2630	567	74.9	4360	2580	< 5.00	(2)	212	< 5.00	< 10.0	< 7.50	< 7.50	(2)	13.6 J	< 5.00	< 15.0	< 30.0	26	11.4 J	< 5.00	(2)	< 20.0	< 30.0	na		
5/23/2007	12200	2810	247	52.8	2314	625.5	< 10.0	(2)	118 J	< 10.0	< 10.0	< 10.0	< 10.0	(2)	< 15.0	56.2	< 15.0	< 30.0	7.83	17.7	< 5.00	(2)	< 20.0	< 30.0	na		
11/15/2007	11700	2160	241	< 40.0	2410	1760	< 20.0	(2)	164 J	< 20.0	< 20.0	< 20.0	< 20.0	(2)	< 30.0	< 20.0	< 30.0	< 30.0	11.8	< 20.0	< 10.0	(2)	< 20.0	< 30.0	na		
5/27/2008	14600	5270	554 J	< 40.0	3156	1071	< 500	(2)	< 1,000	< 200	< 400	< 300	< 300	(2)	< 400	< 300	< 500	< 300	< 100	< 200	< 100	(2)	< 200	< 300	na		
11/24/2008	12100	2540	399	43.7 J	2153	1425	< 50.0	(2)	157 J	<																	

Table 2
Historical Groundwater Analytical Results for Detected Compounds
Tank 68 Release Site (1)
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (ug/l) and Results Qualifiers (if any)																																
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl Isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	p-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Chloroethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Propyltoluene	p-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachloroethene	Dissolved Lead								
NR 140 PAL	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	0.6	3	0.5	NS	NS	NS	NS	NS	NS	10	40	0.5	1.5							
NR 140 ES	NS	5	700	800	2,000	480	60	500	100	NS	NS	NS	NS	6	30	5	NS	NS	NS	NS	NS	100	200	5	15								
6/12/2018	na	3770	531	< 25.0	< 1305	BQX	597.7	J	< 8.7	na	< 125	< 11.5	< 25.0	< 109	< 9.0	(2)	< 25.0	< 8.4	< 22.1	na	< 7.2	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	na					
10/9/2018	na	< 0.25	< 0.17	< 0.17	< 0.73		< 1.71		< 1.2	na	< 1.2	< 0.24	< 0.71	< 0.85	< 3.0	(2)	< 2.2	< 0.28	< 0.54	na	< 0.39	< 0.80	< 0.81	< 0.47	< 0.24	< 0.33	na						
5/21/2019	na	1790	278	4.9	J	< 552.6	BQX	376.0	J	< 12.5	na	13.1	J	< 2.4	< 7.1	< 8.5	< 3.0	(2)	< 21.9	< 2.8	< 5.4	na	8.4	J	< 8.0	17.9	J	< 4.7	< 2.4	< 3.3	na		
10/9/2019	na	2640	420	4.8	J	< 441.6	BQX	661.1		< 12.5	na	< 11.8	< 2.4	< 7.1	< 8.5	< 3.0	(2)	< 21.9	64.6	< 5.4	na	13.1	J	< 8.0	30.5	J	< 4.7	< 2.4	< 3.3	na			
5/27/2020	na	790	133	2.8	J	192.3		229	a	< 6.2	na	6	J	< 1.2	< 3.5	< 4.2	< 1.5	< 6.4	< 10.9	< 1.4	< 2.7	< 9.4	< 8.4	< 4.0	9.1	J	< 15.0	< 1.2	< 1.6	na			
10/6/2020	na	2950	499	5.0	6.36		1027		< 0.12	< 0.54	8.9	< 0.13	7.0	5.4	0.35	J	< 0.48	< 0.42	0.96	< 0.22	na	28.9	11.8	57.2	< 0.11	< 0.17	< 0.17	< 0.17	na				
5/24/2021	na	1850	279	5.4	J	397		411		< 11.3	na	< 11.3	< 3.6	< 8.6	< 4.2	< 5.9	< 11.8	< 16.4	< 2.9	< 4.1	< 11.0	< 10.0	< 10.4	16.4	< 3.6	< 3.0	< 4.1	na					
10/4/2021	na	17.4	H	2.6	H	< 0.14	H	10.7		13.2	< 0.16	H	0.47	H	< 0.13	H	< 0.16	H	< 0.18	H	< 0.16	H	< 0.15	H	< 0.18	H	< 0.088	H	< 0.18	H	< 0.25	H	na
MW-5/T66																																	
11/25/1998	100	< 0.30	1.9	6.7	32	10.4	< 0.20	NI	< 1.1	< 0.20	2	< 0.20	< 0.30	NI	< 0.90	< 0.20	na	< 0.30	< 0.20	< 0.20	0.3	NI	< 0.20	< 0.60	na								
12/17/1998	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1						
4/6/1999	997	44	8.06	33.1	195	109	< 0.3	(2)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2.41						
6/1/1999	3810	55.4	65.7	170	909	554	< 3.0	(2)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2.75						
9/9/1999	31300	1920	1970	5190	9590	2554	< 15	(2)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	4.23						
12/10/1999	74600	7480	3070	19800	15270	2786	< 60	(2)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	3.38					
3/6/2002	44000	3300	3100	13000	18000	4800	< 25	(2)	820	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
7/11/2002	na	2100	1700	8700	13400	2900	< 49	(2)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
9/12/2002	44000	2200	2800	10000	14500	2960	< 22	(2)	310	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
3/12/2003	48000	3400	3100	9900	15600	3220	< 22	(2)	340	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
9/30/2004	77000	13000	3600	23000	17200	3350	< 72	(2)	520	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						
5/26/2005	72800	20700	1250	23400	9990	1974	< 300	(2)	< 800	< 410	< 360	< 400	< 400	(2)	< 290	< 400	< 300	< 310	< 500	< 300	< 200	< 200	< 300	< 300	< 300	na							
11/9/2005	53100	8980	2580	19700	17840	2731	< 60.0	(2)	270	< 82.0	< 72.0	< 80.0	< 80.0	(2)	< 58.0	< 80.0	na	< 30.0	68.3	< 100	190	(2)	< 200	< 300	na								
5/10/2006	72700	8620	3660	19400	18340	4340	< 150	(2)	667	J	205	549	< 200	< 200	(2)	< 145	< 200	na	< 300	< 155	< 250	602	(2)	< 200	< 300	na							
11/16/2006	17300	672	425	1740	4040	1852	< 500	(2)	89.6	J	102	199	< 7.50	< 7.50	(2)	< 10.0	15.4	J	< 15.0	< 30.0	17.7	J	11.5	J	< 5.00	(2)	< 20.0	< 30.0	na				
5/23/2007	29800	2620	1160	5200	6840	J	2360	< 10.0	(2)	174	< 10.0	< 10.0	< 10.0	< 10.0	(2)	19.7	J	52.0	< 15.0	< 30.0	32.3	< 10.0	< 5.00	(2)	< 20.0	< 30.0	na						
11/15/2007	27000	2440	1270	4790	8180	2540	< 20.0	(2)	221	J	< 20.0	< 20.0	< 20.0	< 20.0	(2)	< 30.0	< 20.0	< 30.0	34.2	< 20.0	< 10.0	(2)	< 20.0	< 30.0	na								
5/27/2008	39500	4210	2180	8750	12350	2360	< 500	(2)	< 1000	< 200	< 400	< 300	< 300	(2)	< 400	< 300	< 500	< 300	< 100	< 200	< 100	(2)	< 200	< 300	na								
11/24/2008	19300	2010	1270	4340	4040	1841	< 50.0	(2)	223	J	< 20.0	230	< 30.0	< 30.0	(2)	< 40.0	< 30.0	< 50.0	< 30.0	33.9	J	< 20.0	< 10.0	(2)	< 20.0	< 30.0	na						
5/29/2009	27500	2710	1570	3590	10550	3160	< 500	(2)	< 1000	< 300	< 400	< 300	< 300	(2)	< 400	< 300	< 800	< 300	< 100	< 400	< 100	(2)	< 500	< 300	na								
11/23/2009	20100	1870	926	1050	6910	2760	< 50.0	(2)	391	< 30.0	< 40.0	< 30.0	< 30.0	(2)	< 40.0	43.6	J	< 80.0	na	31.6	< 40.0	< 10.0	(2)	< 50.0	< 300	na							
5/19/2010	25400	2980	1480	4190	9050	3000	< 500	(2)	< 1000	< 300	< 400	< 300	< 300	(2)	< 400	< 300	< 800	< 300	< 100	< 400	< 100	(2)	< 500	< 300	na								
10/21/2010	21800	1630	913	2090	6670	1431	< 50.0	(2)	211	J	< 30.0	< 40.0	< 30.0	< 30.0	(2)	< 40.0	34.9	J	< 80.0	< 30.0	21.3	J	< 40.0	< 20.0	(2)	< 500	< 30.0	na					
6/16/2011	na	2940	1520	2470	9480	2161	< 250	(2)	< 500	< 150	< 200	< 150	< 150	(2)	< 200	< 150	< 400	na	< 100	< 200	< 100	(2)	< 250	< 150	na								
10/25/2011	na	3020	820	1110	7280	1745	< 250	(2)	< 500	< 150	< 200	< 150	< 150	(2)	< 200	< 150	< 400	na	< 100	< 200	< 100	(2)	< 250	< 150	na								
5/16/2012	na	3220	2550	2690	13910	2828	< 15.2	(2)	317	< 20.5	< 23.2	< 22.2	< 24.2	(2)	< 6.0	< 9.0	< 18.8	na	54.1	< 16.8	210	(2)	< 22.5	< 11.2	na								
8/21/2013	na	3860	2540	1760	15230	3450	< 19.7	(2)	404	< 19.3	56.9	< 24.2	< 17.0	(2)	< 15.5	< 19.1	< 20.3	na	66.4	16.8	J	244	(2)	< 17.7	< 18.9	na							
6/24/2014	na	6.0	0.80	J	2.5	64.5	< 0.17	(2)	< 2.5	< 0.23	< 0.50	< 2.2	< 0.18	(2)	< 0.50	< 0.16	< 0.44	na	< 0.14	< 0.50	< 0.50	(2)	< 0.50	< 0.50	na								
10/21/2014	na	2050	1230	423	9030	1486	< 3.5	(2)	172	< 4.6	< 10.0	< 43.7	< 3.6	(2)	< 10.0	< 3.4	< 8.8	na	11.5	J	< 10.0	43.5	(2)	< 10.0	< 10.0	na							
6/23/2015	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP						
10/6/2015	na	11800	2080	20900	16670	4585	< 34.8	(2)	510	J	< 46.0	< 100	< 437	< 36.1	(2)	< 100	< 33.6	< 88.2	na	74.7	J	< 100	316	(2)	< 100	< 100	na						
5/24/2016	na	10600	3330	17000	19360	4719	< 34.8	(2)	< 500	< 46.0	< 100	< 437	< 36.1	(2)	< 100	< 33.6	< 88.2	na	118	J	< 100	419	(2)	< 100	< 100	na							
10/5/2016																																	

Table 2
Historical Groundwater Analytical Results for Detected Compounds
Tank 68 Release Site (1)
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (ug/l) and Results Qualifiers (if any)																									
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl Isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	p-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Chloroethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Isopropylbenzene	p-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachloroethene	Dissolved Lead	
NR 140 PAL	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	0.6	3	0.5	NS	NS	NS	NS	NS	10	40	0.5	1.5	
NR 140 ES	NS	5	700	800	2,000	480	60	500	100	NS	NS	NS	NS	6	30	5	NS	NS	NS	NS	NS	100	200	5	15	
11/16/2006	37300	5410	922	6820	10380	3260	< 10.0	(2)	265 J	75	< 20.0	< 15.0	19.9 J	(2)	< 20.0	109	65.6 J	< 300	30.1 J	< 20.0	< 10.0	na	< 200	< 300	na	
5/23/2007	103000	21200	2730	33800	16520	4590	< 200	(2)	< 1,000	< 200	< 200	< 200	< 200	(2)	< 300	< 200	< 300	< 300	< 100	< 200	< 100	na	< 200	< 300	na	
11/15/2007	121000	7580	1240	13500	7180	2007	< 200	(2)	< 1,000	< 200	< 200	< 200	< 200	(2)	< 300	< 200	< 300	< 300	< 100	< 200	< 100	na	< 200	< 300	na	
5/27/2008	120000	22600	3310	45700	20390	3327	< 500	(2)	< 1,000	< 200	< 400	< 300	< 300	(2)	< 400	< 300	< 300	< 300	< 100	< 200	< 100	na	< 200	< 300	na	
11/24/2008	109000	6950	1590	14200	7780	1377	< 500	(2)	< 1,000	< 200	< 400	< 300	< 300	(2)	< 400	< 300	< 500	< 300	< 100	< 200	< 100	na	< 200	< 300	na	
5/27/2009	110000	19000	4030	45700	21860	6040	< 500	(2)	< 1,000	< 300	< 400	< 300	< 300	(2)	< 400	585 J	< 800	< 300	134 J	< 400	< 100	na	< 500	< 300	na	
11/23/2009	106000	13200	3630	30600	20610	6280	< 50.0	(2)	783	< 30.0	< 40.0	< 30.0	< 30.0	(2)	< 40.0	315	< 80.0	na	111	< 40.0	< 10.0	na	< 50.0	< 300	na	
5/19/2010	103000	18400	3640	42200	21540	6560	< 500	(2)	< 1,000	< 300	< 400	< 300	< 300	(2)	< 400	< 300	< 800	< 300	134 J	< 400	< 100	na	< 500	< 300	na	
10/21/2010	98000	14900	3730	36800	24540	6240	< 500	(2)	1070 J	< 300	< 400	< 300	< 300	(2)	< 400	339 J	< 400	< 300	< 200	< 400	< 200	na	< 500	< 300	na	
6/16/2011	na	12200	2760	33100	16950	3324 J	< 500	(2)	< 1,000	< 300	< 400	< 300	< 300	(2)	< 400	< 300	< 800	na	< 200	< 400	< 200	na	< 500	< 300	na	
10/25/2011	na	12600	2250	27800	18100	4288 J	< 500	(2)	< 1,000	< 300	< 400	< 300	< 300	(2)	< 400	322 J	< 800	na	< 200	< 400	< 200	na	< 500	< 300	na	
5/16/2012	na	12700	2610	28200	17680	3480	< 76.2	(2)	476 J	< 102	< 116	< 111	< 121	(2)	< 30.0	< 45.0	< 93.8	na	< 73.8	< 83.8	214	na	< 112	< 56.2	na	
8/21/2013	na	16000	2390	27800	16160	4261	< 98.7	(2)	584 J	< 96.7	< 79.9	< 121	< 84.9	(2)	< 77.5	< 95.3	< 101	na	71.0	< 79.4	273	na	< 88.6	< 94.4	na	
6/24/2014	na	14600	2700	26900	17940	1208	< 43.6	(2)	< 625	< 57.5	< 125	< 547	< 45.1	(2)	< 125	< 41.9	< 110	na	57.5 J	< 125	193 J	na	< 125	< 125	na	
10/21/2014	na	23300	4140	48700	33400	5250	< 34.8	(2)	617 J	< 46.0	< 100	< 437	< 36.1	(2)	< 100	< 33.5	< 88.2	na	< 28.7	< 100	260	na	< 100	< 100	na	
6/23/2015	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
10/6/2015	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/24/2016	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
10/5/2016	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/16/2017	na	25600	3200	42700	23200	3821	< 109	(2)	< 1560	< 144	623 J	< 1370	< 113	(2)	< 312	< 105	< 276	na	< 89.6	< 312	< 312	na	< 312	< 312	na	
10/25/2017	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
6/12/2018	FP	FP	FP	FP	FP	FP	na	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	< 25.0	FP	FP	FP
10/9/2018	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP
5/21/2019	na	27400	2730	41600	24450	3480	< 311	na	432 J	< 60.3	< 177	< 212	< 76.0	(2)	< 547	< 70.0	< 135	na	< 98.2	< 200	< 203	< 116	< 61.2	< 81.6	na	
10/9/2019	na	25400	2480	39500	21620	4555	< 311	na	717 J	< 60.3	< 177	< 212	< 76.0	(2)	< 547	697	< 135	na	< 98.2	< 200	258 J	< 116	< 61.2	< 81.6	na	
5/27/2020	na	21100	2060	33700	21630	3891	< 311	na	494 J	< 60.3	< 177	< 212	< 76.0	< 318	< 547	< 70.0	< 135	< 472	< 422	< 200	< 203	< 752	< 61.2	< 81.6	na	
10/6/2020	na	24300	8670	33700	162000	65080	< 11.6	250	5690	< 13.3	573	253	< 12.9	< 48.4	< 42.4	88.7	< 22.1	na	569	117	2080	34.4 J	< 17.0	< 17.4	na	
5/24/2021	na	17100	1740	27900	17430	3454	< 141	na	455 J	< 45.1	< 107	< 53.0	< 73.3	< 148	< 204	78.0 J	< 51.3	< 138	< 125	< 130	149	< 44.5	< 37.8	< 51.1	na	
10/4/2021	na	18500	2920	38000	33100	10480	< 18.1	na	1500	< 17.9	139	49.9	< 11.3	18.4 J	< 22.4	56.1	< 12.2	na	143	28.3 J	501	< 12.6	< 17.4	< 10.1	na	
MW-6 Te8																										
3/12/2003	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/30/2004	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
thru	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
11/9/2005	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
11/19/2006	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/23/2007	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
11/15/2007	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/27/2008	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
11/24/2008	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/27/2009	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
11/23/2009	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
5/19/2010	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
10/21/2010	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
6/16/2011	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	(2)	FP	FP	FP	FP	FP	FP	FP	FP	na	FP	FP	FP
10/25/2011	na	24000	2160	25200	16320	3830	< 100	(2)	243 J	< 60.0	< 80.0	< 60.0	< 60.0	(2)	< 80.0	< 60.0	< 80.0	na	61.3 J	< 80.0	< 40.0	na	< 100	< 60.0	na	
5/16/2012	na	27900	2270	31200	19370	3059	< 122	(2)	436 J	< 164	< 186	< 178	< 194	(2)	< 48.0	293	< 150	na	< 118	< 134	< 162	na	< 180	< 90.0	na	
8/21/2013	na	26100	3940	3																						

Table 2
Historical Groundwater Analytical Results for Detected Compounds
Tank 68 Release Site (1)
Superior Refining Company LLC
Superior, Wisconsin

Well ID	Substance Concentration (µg/l) and Results Qualifiers (if any)																									
	GRO	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Methyl Isobutyl ketone (MIBK)	Naphthalene	Bromobenzene	p-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Chloromethane	1,2-Dichloroethane	1,1-Dichloropropane	Isopropyl Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	p-Propylbenzene	Styrene	1,1,1-Trichloroethane	Tetrachloroethene	Dissolved Lead	
NR 140 PAL	NS	0.5	140	160	400	96	12	50	10	NS	NS	NS	NS	0.6	3	0.5	NS	NS	NS	NS	NS	NS	10	40	0.5	1.5
NR 140 ES	NS	5	700	800	2,000	480	60	500	100	NS	NS	NS	NS	6	30	5	NS	NS	NS	NS	NS	NS	100	200	5	15
5/27/2020	na	18300	1410	16000	15710	3205	< 249	na	344 J	< 48.2	< 142	< 170	< 60.8	< 255	< 438	< 56.0	< 108	< 378	< 337	< 160	< 162	< 602	< 49.0	< 65.3	na	
10/6/2020	na	21100	1800	19000	20000	3611	< 5.8	69.0 J	407	< 6.6	17.0 J	12.0 J	< 6.4	< 24.2	< 21.2	200	< 11.0	na	55.0	< 8.8	153	< 5.5	< 8.5	< 8.7	na	
5/24/2021	na	14600	1190	12500	14340	2661	< 141	na	212 J	< 45.1	< 107	< 53.0	< 73.3	< 148	< 204	< 36.4	< 51.3	< 138	< 125	< 130	75.6 J	< 44.5	< 37.8	< 51.1	na	
10/4/2021	na	18400	1630	16400	19040	3476	< 18.1	na	477	< 17.9	21.9	< 13.5	< 11.3	21.2 J	< 22.4	192	< 12.2	na	52.1	< 11.5	140	< 12.6	< 17.4	< 10.1	na	

NOTES:

Detected concentrations at or above an applicable NR 140 PAL are in **bold** font; those at or above an NR 140 ES are in *italicized* font.

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

BQX = Value exceeds PAL despite being classified as not detected. It is possible one or more of the compounds added together to derived this value were detected in the original sample.

DP = Discontinuous product globules, well not sampled.

FP = Free product, well not sampled.

GRO = Gasoline range organics.

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

H = Recommended sample preservation, extraction or analysis holding time was exceeded.

J (Pre 2020) = Estimated concentration below laboratory quantitation level.

J (Post 2020) = Estimated detected value. Either certain QC criteria were not met or the concentration is between the laboratory's detection and quantitation limits.

MTBE = Methyl tert butyl ether.

na = Not analyzed.

NI = Not installed.

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

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

NS = No standard.

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

(1) = In addition, 244 µg/l of 1,3-dichloropropane was detected in the sample collected from MW-5/T66 on 10/25/17. However, 1,3-dichloropropane has no NR 140 PAL or NR 140 ES. Consequently, Table 2 was not revised to include all 1,3-dichloropropane data.

(2) = No data available.

Figures

Barr Footer: ArcGIS 10.7.1, 2020-10-27 13:12 File: I:\Client\Husky Energy\Superior Refinery\Maps\Groundwater_Monitoring\Tank 68\Figure 2 Site Layout and Monitoring Locations-Tank 68.mxd User: EMA

Tank No. 30








Tank No. 69

Tank No. 41

Tank No. 66

Tank No. 38

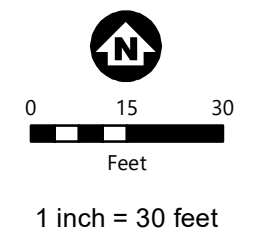


-  Geoprobe (GP)/ Hand Auger (HA) Boring Locations (April/May 2002)
-  Monitoring Point (July 2001)
-  Test Pit
-  Monitoring Well
-  General Direction of Groundwater Flow
-  Contaminant Berm
-  Wet Area

Notes:

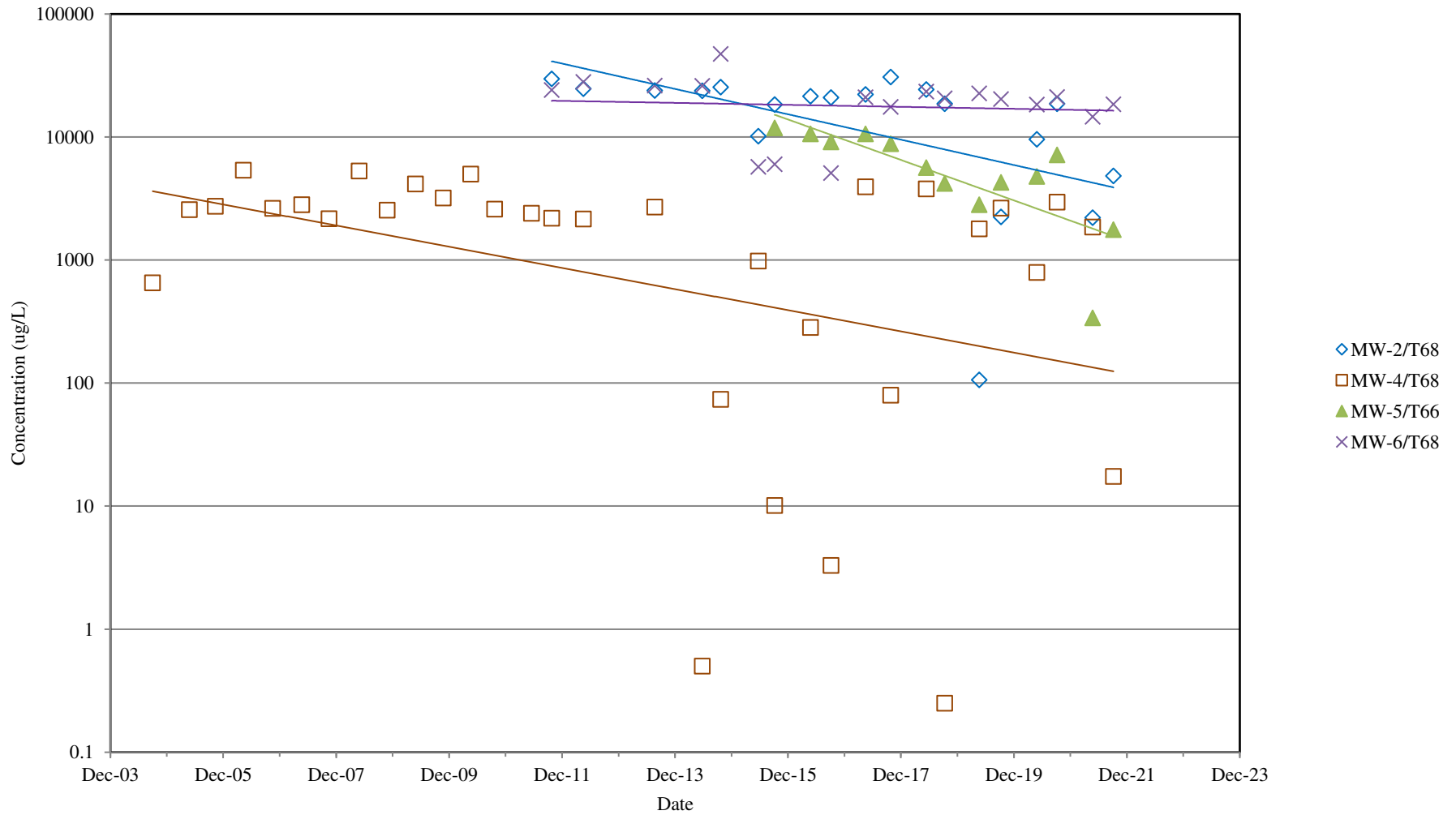
1. Gray shaded well, test pit, and geoprobe and hand auger boring locations have been abandoned.
2. Each monitoring point (MP) is 7 feet deep and consists of 4" diameter PVC with 3 feet of slotted PVC screen.

Source: Gannett Fleming. Sample locations are based on field measurements made by Gannett Fleming and are approximate. Locations were not surveyed.



TANK 68 SITE LAYOUT & MONITORING LOCATIONS
 Superior Refining Company LLC (SRC)
 Superior, WI
FIGURE 2

FIGURE 3



Note: Best-fit exponential trend lines generated using Excel and non-detect concentrations (if any) plotted at detection limit.

BENZENE GROUNDWATER CONCENTRATIONS TANK 68 BASIN

SUPERIOR REFINING COMPANY LLC
SUPERIOR, WISCONSIN

*Discontinuous product globules observed at MW-6/T68 on May 24, 2016.

Attachments

Attachment A

Pace Analytical Laboratory Reports

June 07, 2021

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

RE: Project: 49161494 SRC GW Samp T68
Pace Project No.: 10562224

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10562224001	MW-1/T68	Water	05/24/21 10:05	05/24/21 15:45
10562224002	MW-2/T68	Water	05/24/21 10:15	05/24/21 15:45
10562224003	MW-4/T68	Water	05/24/21 10:23	05/24/21 15:45
10562224004	MW-5/T68	Water	05/24/21 10:28	05/24/21 15:45
10562224005	MW-5/T66	Water	05/24/21 10:34	05/24/21 15:45
10562224006	MW-6/T68	Water	05/24/21 10:32	05/24/21 15:45
10562224007	Trip Blank	Water	05/24/21 00:00	05/24/21 15:45

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SAMPLE ANALYTE COUNT

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10562224001	MW-1/T68	EPA 8260	SMT	64	PASI-G
10562224002	MW-2/T68	EPA 8260	SMT	64	PASI-G
10562224003	MW-4/T68	EPA 8260	SMT	64	PASI-G
10562224004	MW-5/T68	EPA 8260	SMT	64	PASI-G
10562224005	MW-5/T66	EPA 8260	SMT	64	PASI-G
10562224006	MW-6/T68	EPA 8260	LAP	64	PASI-G
10562224007	Trip Blank	EPA 8260	LAP	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-1/T68 **Lab ID: 10562224001** Collected: 05/24/21 10:05 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/03/21 14:47	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/03/21 14:47	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/03/21 14:47	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/03/21 14:47	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/03/21 14:47	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/03/21 14:47	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/03/21 14:47	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/03/21 14:47	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/03/21 14:47	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/03/21 14:47	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/03/21 14:47	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/03/21 14:47	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/03/21 14:47	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/03/21 14:47	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/03/21 14:47	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/03/21 14:47	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/03/21 14:47	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/03/21 14:47	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/03/21 14:47	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/03/21 14:47	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/03/21 14:47	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/03/21 14:47	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/03/21 14:47	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/03/21 14:47	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/03/21 14:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/03/21 14:47	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/03/21 14:47	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/03/21 14:47	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/03/21 14:47	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/03/21 14:47	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/03/21 14:47	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/03/21 14:47	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/03/21 14:47	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/03/21 14:47	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/03/21 14:47	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/03/21 14:47	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/03/21 14:47	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/03/21 14:47	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/03/21 14:47	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/03/21 14:47	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/03/21 14:47	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/03/21 14:47	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/03/21 14:47	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/03/21 14:47	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/03/21 14:47	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-1/T68 **Lab ID: 10562224001** Collected: 05/24/21 10:05 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/03/21 14:47	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/03/21 14:47	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/03/21 14:47	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/03/21 14:47	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/03/21 14:47	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/03/21 14:47	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/03/21 14:47	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/03/21 14:47	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/03/21 14:47	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/03/21 14:47	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/03/21 14:47	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/03/21 14:47	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/03/21 14:47	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/03/21 14:47	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/03/21 14:47	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/03/21 14:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/03/21 14:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/03/21 14:47	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		06/03/21 14:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-2/T68 **Lab ID: 10562224002** Collected: 05/24/21 10:15 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		06/03/21 12:30	630-20-6	
1,1,1-Trichloroethane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:30	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		06/03/21 12:30	79-34-5	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		06/03/21 12:30	79-00-5	
1,1-Dichloroethane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:30	75-34-3	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		06/03/21 12:30	75-35-4	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		06/03/21 12:30	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		06/03/21 12:30	87-61-6	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		06/03/21 12:30	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/03/21 12:30	120-82-1	
1,2,4-Trimethylbenzene	528	ug/L	10.0	4.5	10		06/03/21 12:30	95-63-6	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		06/03/21 12:30	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		06/03/21 12:30	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		06/03/21 12:30	95-50-1	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		06/03/21 12:30	107-06-2	
1,2-Dichloropropane	<4.5	ug/L	10.0	4.5	10		06/03/21 12:30	78-87-5	
1,3,5-Trimethylbenzene	231	ug/L	10.0	3.6	10		06/03/21 12:30	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		06/03/21 12:30	541-73-1	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:30	142-28-9	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		06/03/21 12:30	106-46-7	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		06/03/21 12:30	594-20-7	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		06/03/21 12:30	95-49-8	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		06/03/21 12:30	106-43-4	
Benzene	2200	ug/L	10.0	3.0	10		06/03/21 12:30	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:30	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/03/21 12:30	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		06/03/21 12:30	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		06/03/21 12:30	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		06/03/21 12:30	74-83-9	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		06/03/21 12:30	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		06/03/21 12:30	108-90-7	
Chloroethane	<13.8	ug/L	50.0	13.8	10		06/03/21 12:30	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		06/03/21 12:30	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		06/03/21 12:30	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		06/03/21 12:30	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		06/03/21 12:30	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		06/03/21 12:30	75-71-8	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		06/03/21 12:30	108-20-3	
Ethylbenzene	99.2	ug/L	10.0	3.3	10		06/03/21 12:30	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		06/03/21 12:30	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	50.0	10.0	10		06/03/21 12:30	98-82-8	
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		06/03/21 12:30	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		06/03/21 12:30	75-09-2	
Naphthalene	54.0	ug/L	50.0	11.3	10		06/03/21 12:30	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:30	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-2/T68 **Lab ID: 10562224002** Collected: 05/24/21 10:15 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		06/03/21 12:30	127-18-4	
Toluene	1670	ug/L	10.0	2.9	10		06/03/21 12:30	108-88-3	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		06/03/21 12:30	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		06/03/21 12:30	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/03/21 12:30	75-01-4	
cis-1,2-Dichloroethene	<4.7	ug/L	10.0	4.7	10		06/03/21 12:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:30	10061-01-5	
m&p-Xylene	1490	ug/L	20.0	7.0	10		06/03/21 12:30	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		06/03/21 12:30	104-51-8	
n-Propylbenzene	3.8J	ug/L	10.0	3.5	10		06/03/21 12:30	103-65-1	
o-Xylene	955	ug/L	10.0	3.5	10		06/03/21 12:30	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		06/03/21 12:30	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		06/03/21 12:30	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		06/03/21 12:30	98-06-6	
trans-1,2-Dichloroethene	<5.3	ug/L	10.0	5.3	10		06/03/21 12:30	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		06/03/21 12:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		10		06/03/21 12:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		10		06/03/21 12:30	2199-69-1	
Toluene-d8 (S)	99	%	70-130		10		06/03/21 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-4/T68 **Lab ID: 10562224003** Collected: 05/24/21 10:23 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		06/03/21 12:50	630-20-6	
1,1,1-Trichloroethane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:50	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		06/03/21 12:50	79-34-5	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		06/03/21 12:50	79-00-5	
1,1-Dichloroethane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:50	75-34-3	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		06/03/21 12:50	75-35-4	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		06/03/21 12:50	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		06/03/21 12:50	87-61-6	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		06/03/21 12:50	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/03/21 12:50	120-82-1	
1,2,4-Trimethylbenzene	386	ug/L	10.0	4.5	10		06/03/21 12:50	95-63-6	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		06/03/21 12:50	96-12-8	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		06/03/21 12:50	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		06/03/21 12:50	95-50-1	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		06/03/21 12:50	107-06-2	
1,2-Dichloropropane	<4.5	ug/L	10.0	4.5	10		06/03/21 12:50	78-87-5	
1,3,5-Trimethylbenzene	25.0	ug/L	10.0	3.6	10		06/03/21 12:50	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		06/03/21 12:50	541-73-1	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		06/03/21 12:50	142-28-9	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		06/03/21 12:50	106-46-7	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		06/03/21 12:50	594-20-7	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		06/03/21 12:50	95-49-8	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		06/03/21 12:50	106-43-4	
Benzene	1850	ug/L	10.0	3.0	10		06/03/21 12:50	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:50	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/03/21 12:50	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		06/03/21 12:50	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		06/03/21 12:50	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		06/03/21 12:50	74-83-9	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		06/03/21 12:50	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		06/03/21 12:50	108-90-7	
Chloroethane	<13.8	ug/L	50.0	13.8	10		06/03/21 12:50	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		06/03/21 12:50	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		06/03/21 12:50	74-87-3	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		06/03/21 12:50	124-48-1	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		06/03/21 12:50	74-95-3	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		06/03/21 12:50	75-71-8	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		06/03/21 12:50	108-20-3	
Ethylbenzene	279	ug/L	10.0	3.3	10		06/03/21 12:50	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		06/03/21 12:50	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	50.0	10.0	10		06/03/21 12:50	98-82-8	
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		06/03/21 12:50	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		06/03/21 12:50	75-09-2	
Naphthalene	<11.3	ug/L	50.0	11.3	10		06/03/21 12:50	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:50	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-4/T68 **Lab ID: 10562224003** Collected: 05/24/21 10:23 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		06/03/21 12:50	127-18-4	
Toluene	5.4J	ug/L	10.0	2.9	10		06/03/21 12:50	108-88-3	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		06/03/21 12:50	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		06/03/21 12:50	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/03/21 12:50	75-01-4	
cis-1,2-Dichloroethene	<4.7	ug/L	10.0	4.7	10		06/03/21 12:50	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		06/03/21 12:50	10061-01-5	
m&p-Xylene	393	ug/L	20.0	7.0	10		06/03/21 12:50	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		06/03/21 12:50	104-51-8	
n-Propylbenzene	16.4	ug/L	10.0	3.5	10		06/03/21 12:50	103-65-1	
o-Xylene	<3.5	ug/L	10.0	3.5	10		06/03/21 12:50	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		06/03/21 12:50	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		06/03/21 12:50	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		06/03/21 12:50	98-06-6	
trans-1,2-Dichloroethene	<5.3	ug/L	10.0	5.3	10		06/03/21 12:50	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		06/03/21 12:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		10		06/03/21 12:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		10		06/03/21 12:50	2199-69-1	
Toluene-d8 (S)	99	%	70-130		10		06/03/21 12:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-5/T68 **Lab ID: 10562224004** Collected: 05/24/21 10:28 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		06/03/21 13:10	630-20-6	
1,1,1-Trichloroethane	<37.8	ug/L	125	37.8	125		06/03/21 13:10	71-55-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		06/03/21 13:10	79-34-5	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		06/03/21 13:10	79-00-5	
1,1-Dichloroethane	<37.0	ug/L	125	37.0	125		06/03/21 13:10	75-34-3	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		06/03/21 13:10	75-35-4	
1,1-Dichloropropene	<51.3	ug/L	125	51.3	125		06/03/21 13:10	563-58-6	
1,2,3-Trichlorobenzene	<127	ug/L	625	127	125		06/03/21 13:10	87-61-6	
1,2,3-Trichloropropane	<69.4	ug/L	625	69.4	125		06/03/21 13:10	96-18-4	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		06/03/21 13:10	120-82-1	
1,2,4-Trimethylbenzene	2650	ug/L	125	56.1	125		06/03/21 13:10	95-63-6	
1,2-Dibromo-3-chloropropane	<296	ug/L	625	296	125		06/03/21 13:10	96-12-8	
1,2-Dibromoethane (EDB)	<38.6	ug/L	125	38.6	125		06/03/21 13:10	106-93-4	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		06/03/21 13:10	95-50-1	
1,2-Dichloroethane	78.0J	ug/L	125	36.4	125		06/03/21 13:10	107-06-2	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		06/03/21 13:10	78-87-5	
1,3,5-Trimethylbenzene	804	ug/L	125	44.7	125		06/03/21 13:10	108-67-8	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		06/03/21 13:10	541-73-1	
1,3-Dichloropropane	<38.1	ug/L	125	38.1	125		06/03/21 13:10	142-28-9	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		06/03/21 13:10	106-46-7	
2,2-Dichloropropane	<522	ug/L	625	522	125		06/03/21 13:10	594-20-7	
2-Chlorotoluene	<111	ug/L	625	111	125		06/03/21 13:10	95-49-8	
4-Chlorotoluene	<112	ug/L	625	112	125		06/03/21 13:10	106-43-4	
Benzene	17100	ug/L	125	36.9	125		06/03/21 13:10	71-43-2	
Bromobenzene	<45.1	ug/L	125	45.1	125		06/03/21 13:10	108-86-1	
Bromochloromethane	<44.7	ug/L	625	44.7	125		06/03/21 13:10	74-97-5	
Bromodichloromethane	<51.9	ug/L	125	51.9	125		06/03/21 13:10	75-27-4	
Bromoform	<475	ug/L	625	475	125		06/03/21 13:10	75-25-2	
Bromomethane	<149	ug/L	625	149	125		06/03/21 13:10	74-83-9	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		06/03/21 13:10	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		06/03/21 13:10	108-90-7	
Chloroethane	<172	ug/L	625	172	125		06/03/21 13:10	75-00-3	
Chloroform	<148	ug/L	625	148	125		06/03/21 13:10	67-66-3	
Chloromethane	<204	ug/L	625	204	125		06/03/21 13:10	74-87-3	
Dibromochloromethane	<330	ug/L	625	330	125		06/03/21 13:10	124-48-1	
Dibromomethane	<124	ug/L	625	124	125		06/03/21 13:10	74-95-3	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		06/03/21 13:10	75-71-8	
Diisopropyl ether	<138	ug/L	625	138	125		06/03/21 13:10	108-20-3	
Ethylbenzene	1740	ug/L	125	40.6	125		06/03/21 13:10	100-41-4	
Hexachloro-1,3-butadiene	<342	ug/L	625	342	125		06/03/21 13:10	87-68-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		06/03/21 13:10	98-82-8	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		06/03/21 13:10	1634-04-4	
Methylene Chloride	<39.9	ug/L	625	39.9	125		06/03/21 13:10	75-09-2	
Naphthalene	455J	ug/L	625	141	125		06/03/21 13:10	91-20-3	
Styrene	<44.5	ug/L	125	44.5	125		06/03/21 13:10	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-5/T68 **Lab ID: 10562224004** Collected: 05/24/21 10:28 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<51.1	ug/L	125	51.1	125		06/03/21 13:10	127-18-4	
Toluene	27900	ug/L	125	36.0	125		06/03/21 13:10	108-88-3	
Trichloroethene	<40.0	ug/L	125	40.0	125		06/03/21 13:10	79-01-6	
Trichlorofluoromethane	<52.3	ug/L	125	52.3	125		06/03/21 13:10	75-69-4	
Vinyl chloride	<21.8	ug/L	125	21.8	125		06/03/21 13:10	75-01-4	
cis-1,2-Dichloroethene	<58.9	ug/L	125	58.9	125		06/03/21 13:10	156-59-2	
cis-1,3-Dichloropropene	<44.8	ug/L	125	44.8	125		06/03/21 13:10	10061-01-5	
m&p-Xylene	11600	ug/L	250	87.5	125		06/03/21 13:10	179601-23-1	
n-Butylbenzene	<107	ug/L	125	107	125		06/03/21 13:10	104-51-8	
n-Propylbenzene	149	ug/L	125	43.2	125		06/03/21 13:10	103-65-1	
o-Xylene	5830	ug/L	125	43.5	125		06/03/21 13:10	95-47-6	
p-Isopropyltoluene	<130	ug/L	625	130	125		06/03/21 13:10	99-87-6	
sec-Butylbenzene	<53.0	ug/L	125	53.0	125		06/03/21 13:10	135-98-8	
tert-Butylbenzene	<73.3	ug/L	125	73.3	125		06/03/21 13:10	98-06-6	
trans-1,2-Dichloroethene	<66.0	ug/L	125	66.0	125		06/03/21 13:10	156-60-5	
trans-1,3-Dichloropropene	<433	ug/L	625	433	125		06/03/21 13:10	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		125		06/03/21 13:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		125		06/03/21 13:10	2199-69-1	
Toluene-d8 (S)	97	%	70-130		125		06/03/21 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-5/T66 **Lab ID: 10562224005** Collected: 05/24/21 10:34 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<8.9	ug/L	25.0	8.9	25		06/03/21 13:29	630-20-6	
1,1,1-Trichloroethane	<7.6	ug/L	25.0	7.6	25		06/03/21 13:29	71-55-6	
1,1,2,2-Tetrachloroethane	<9.4	ug/L	25.0	9.4	25		06/03/21 13:29	79-34-5	
1,1,2-Trichloroethane	<8.6	ug/L	125	8.6	25		06/03/21 13:29	79-00-5	
1,1-Dichloroethane	<7.4	ug/L	25.0	7.4	25		06/03/21 13:29	75-34-3	
1,1-Dichloroethene	<14.6	ug/L	25.0	14.6	25		06/03/21 13:29	75-35-4	
1,1-Dichloropropene	<10.3	ug/L	25.0	10.3	25		06/03/21 13:29	563-58-6	
1,2,3-Trichlorobenzene	<25.5	ug/L	125	25.5	25		06/03/21 13:29	87-61-6	
1,2,3-Trichloropropane	<13.9	ug/L	125	13.9	25		06/03/21 13:29	96-18-4	
1,2,4-Trichlorobenzene	<23.8	ug/L	125	23.8	25		06/03/21 13:29	120-82-1	
1,2,4-Trimethylbenzene	2380	ug/L	25.0	11.2	25		06/03/21 13:29	95-63-6	
1,2-Dibromo-3-chloropropane	<59.2	ug/L	125	59.2	25		06/03/21 13:29	96-12-8	
1,2-Dibromoethane (EDB)	<7.7	ug/L	25.0	7.7	25		06/03/21 13:29	106-93-4	
1,2-Dichlorobenzene	<8.1	ug/L	25.0	8.1	25		06/03/21 13:29	95-50-1	
1,2-Dichloroethane	<7.3	ug/L	25.0	7.3	25		06/03/21 13:29	107-06-2	
1,2-Dichloropropane	<11.2	ug/L	25.0	11.2	25		06/03/21 13:29	78-87-5	
1,3,5-Trimethylbenzene	665	ug/L	25.0	8.9	25		06/03/21 13:29	108-67-8	
1,3-Dichlorobenzene	<8.8	ug/L	25.0	8.8	25		06/03/21 13:29	541-73-1	
1,3-Dichloropropane	<7.6	ug/L	25.0	7.6	25		06/03/21 13:29	142-28-9	
1,4-Dichlorobenzene	<22.3	ug/L	25.0	22.3	25		06/03/21 13:29	106-46-7	
2,2-Dichloropropane	<104	ug/L	125	104	25		06/03/21 13:29	594-20-7	
2-Chlorotoluene	<22.2	ug/L	125	22.2	25		06/03/21 13:29	95-49-8	
4-Chlorotoluene	<22.4	ug/L	125	22.4	25		06/03/21 13:29	106-43-4	
Benzene	339	ug/L	25.0	7.4	25		06/03/21 13:29	71-43-2	
Bromobenzene	<9.0	ug/L	25.0	9.0	25		06/03/21 13:29	108-86-1	
Bromochloromethane	<8.9	ug/L	125	8.9	25		06/03/21 13:29	74-97-5	
Bromodichloromethane	<10.4	ug/L	25.0	10.4	25		06/03/21 13:29	75-27-4	
Bromoform	<95.0	ug/L	125	95.0	25		06/03/21 13:29	75-25-2	
Bromomethane	<29.8	ug/L	125	29.8	25		06/03/21 13:29	74-83-9	
Carbon tetrachloride	<9.2	ug/L	25.0	9.2	25		06/03/21 13:29	56-23-5	
Chlorobenzene	<21.4	ug/L	25.0	21.4	25		06/03/21 13:29	108-90-7	
Chloroethane	<34.5	ug/L	125	34.5	25		06/03/21 13:29	75-00-3	
Chloroform	<29.6	ug/L	125	29.6	25		06/03/21 13:29	67-66-3	
Chloromethane	<40.9	ug/L	125	40.9	25		06/03/21 13:29	74-87-3	
Dibromochloromethane	<66.1	ug/L	125	66.1	25		06/03/21 13:29	124-48-1	
Dibromomethane	<24.8	ug/L	125	24.8	25		06/03/21 13:29	74-95-3	
Dichlorodifluoromethane	<11.4	ug/L	125	11.4	25		06/03/21 13:29	75-71-8	
Diisopropyl ether	<27.5	ug/L	125	27.5	25		06/03/21 13:29	108-20-3	
Ethylbenzene	467	ug/L	25.0	8.1	25		06/03/21 13:29	100-41-4	
Hexachloro-1,3-butadiene	<68.4	ug/L	125	68.4	25		06/03/21 13:29	87-68-3	
Isopropylbenzene (Cumene)	<25.0	ug/L	125	25.0	25		06/03/21 13:29	98-82-8	
Methyl-tert-butyl ether	<28.2	ug/L	125	28.2	25		06/03/21 13:29	1634-04-4	
Methylene Chloride	<8.0	ug/L	125	8.0	25		06/03/21 13:29	75-09-2	
Naphthalene	355	ug/L	125	28.2	25		06/03/21 13:29	91-20-3	
Styrene	<8.9	ug/L	25.0	8.9	25		06/03/21 13:29	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-5/T66 **Lab ID: 10562224005** Collected: 05/24/21 10:34 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<10.2	ug/L	25.0	10.2	25		06/03/21 13:29	127-18-4	
Toluene	901	ug/L	25.0	7.2	25		06/03/21 13:29	108-88-3	
Trichloroethene	<8.0	ug/L	25.0	8.0	25		06/03/21 13:29	79-01-6	
Trichlorofluoromethane	<10.5	ug/L	25.0	10.5	25		06/03/21 13:29	75-69-4	
Vinyl chloride	<4.4	ug/L	25.0	4.4	25		06/03/21 13:29	75-01-4	
cis-1,2-Dichloroethene	<11.8	ug/L	25.0	11.8	25		06/03/21 13:29	156-59-2	
cis-1,3-Dichloropropene	<9.0	ug/L	25.0	9.0	25		06/03/21 13:29	10061-01-5	
m&p-Xylene	9310	ug/L	50.0	17.5	25		06/03/21 13:29	179601-23-1	
n-Butylbenzene	<21.4	ug/L	25.0	21.4	25		06/03/21 13:29	104-51-8	
n-Propylbenzene	42.4	ug/L	25.0	8.6	25		06/03/21 13:29	103-65-1	
o-Xylene	3880	ug/L	25.0	8.7	25		06/03/21 13:29	95-47-6	
p-Isopropyltoluene	<26.1	ug/L	125	26.1	25		06/03/21 13:29	99-87-6	
sec-Butylbenzene	<10.6	ug/L	25.0	10.6	25		06/03/21 13:29	135-98-8	
tert-Butylbenzene	<14.7	ug/L	25.0	14.7	25		06/03/21 13:29	98-06-6	
trans-1,2-Dichloroethene	<13.2	ug/L	25.0	13.2	25		06/03/21 13:29	156-60-5	
trans-1,3-Dichloropropene	<86.6	ug/L	125	86.6	25		06/03/21 13:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		06/03/21 13:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		25		06/03/21 13:29	2199-69-1	
Toluene-d8 (S)	97	%	70-130		25		06/03/21 13:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-6/T68 **Lab ID: 10562224006** Collected: 05/24/21 10:32 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		05/30/21 22:48	630-20-6	
1,1,1-Trichloroethane	<37.8	ug/L	125	37.8	125		05/30/21 22:48	71-55-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		05/30/21 22:48	79-34-5	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		05/30/21 22:48	79-00-5	
1,1-Dichloroethane	<37.0	ug/L	125	37.0	125		05/30/21 22:48	75-34-3	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		05/30/21 22:48	75-35-4	
1,1-Dichloropropene	<51.3	ug/L	125	51.3	125		05/30/21 22:48	563-58-6	
1,2,3-Trichlorobenzene	<127	ug/L	625	127	125		05/30/21 22:48	87-61-6	
1,2,3-Trichloropropane	<69.4	ug/L	625	69.4	125		05/30/21 22:48	96-18-4	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		05/30/21 22:48	120-82-1	
1,2,4-Trimethylbenzene	2010	ug/L	125	56.1	125		05/30/21 22:48	95-63-6	
1,2-Dibromo-3-chloropropane	<296	ug/L	625	296	125		05/30/21 22:48	96-12-8	
1,2-Dibromoethane (EDB)	<38.6	ug/L	125	38.6	125		05/30/21 22:48	106-93-4	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		05/30/21 22:48	95-50-1	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		05/30/21 22:48	107-06-2	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		05/30/21 22:48	78-87-5	
1,3,5-Trimethylbenzene	651	ug/L	125	44.7	125		05/30/21 22:48	108-67-8	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		05/30/21 22:48	541-73-1	
1,3-Dichloropropane	<38.1	ug/L	125	38.1	125		05/30/21 22:48	142-28-9	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		05/30/21 22:48	106-46-7	
2,2-Dichloropropane	<522	ug/L	625	522	125		05/30/21 22:48	594-20-7	
2-Chlorotoluene	<111	ug/L	625	111	125		05/30/21 22:48	95-49-8	
4-Chlorotoluene	<112	ug/L	625	112	125		05/30/21 22:48	106-43-4	
Benzene	14600	ug/L	125	36.9	125		05/30/21 22:48	71-43-2	
Bromobenzene	<45.1	ug/L	125	45.1	125		05/30/21 22:48	108-86-1	
Bromochloromethane	<44.7	ug/L	625	44.7	125		05/30/21 22:48	74-97-5	
Bromodichloromethane	<51.9	ug/L	125	51.9	125		05/30/21 22:48	75-27-4	
Bromoform	<475	ug/L	625	475	125		05/30/21 22:48	75-25-2	
Bromomethane	<149	ug/L	625	149	125		05/30/21 22:48	74-83-9	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		05/30/21 22:48	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		05/30/21 22:48	108-90-7	
Chloroethane	<172	ug/L	625	172	125		05/30/21 22:48	75-00-3	
Chloroform	<148	ug/L	625	148	125		05/30/21 22:48	67-66-3	
Chloromethane	<204	ug/L	625	204	125		05/30/21 22:48	74-87-3	
Dibromochloromethane	<330	ug/L	625	330	125		05/30/21 22:48	124-48-1	
Dibromomethane	<124	ug/L	625	124	125		05/30/21 22:48	74-95-3	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		05/30/21 22:48	75-71-8	
Diisopropyl ether	<138	ug/L	625	138	125		05/30/21 22:48	108-20-3	
Ethylbenzene	1190	ug/L	125	40.6	125		05/30/21 22:48	100-41-4	
Hexachloro-1,3-butadiene	<342	ug/L	625	342	125		05/30/21 22:48	87-68-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		05/30/21 22:48	98-82-8	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		05/30/21 22:48	1634-04-4	
Methylene Chloride	<39.9	ug/L	625	39.9	125		05/30/21 22:48	75-09-2	
Naphthalene	212J	ug/L	625	141	125		05/30/21 22:48	91-20-3	
Styrene	<44.5	ug/L	125	44.5	125		05/30/21 22:48	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: MW-6/T68 **Lab ID: 10562224006** Collected: 05/24/21 10:32 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<51.1	ug/L	125	51.1	125		05/30/21 22:48	127-18-4	
Toluene	12500	ug/L	125	36.0	125		05/30/21 22:48	108-88-3	
Trichloroethene	<40.0	ug/L	125	40.0	125		05/30/21 22:48	79-01-6	
Trichlorofluoromethane	<52.3	ug/L	125	52.3	125		05/30/21 22:48	75-69-4	
Vinyl chloride	<21.8	ug/L	125	21.8	125		05/30/21 22:48	75-01-4	
cis-1,2-Dichloroethene	<58.9	ug/L	125	58.9	125		05/30/21 22:48	156-59-2	
cis-1,3-Dichloropropene	<44.8	ug/L	125	44.8	125		05/30/21 22:48	10061-01-5	
m&p-Xylene	9480	ug/L	250	87.5	125		05/30/21 22:48	179601-23-1	
n-Butylbenzene	<107	ug/L	125	107	125		05/30/21 22:48	104-51-8	
n-Propylbenzene	75.6J	ug/L	125	43.2	125		05/30/21 22:48	103-65-1	
o-Xylene	4860	ug/L	125	43.5	125		05/30/21 22:48	95-47-6	
p-Isopropyltoluene	<130	ug/L	625	130	125		05/30/21 22:48	99-87-6	
sec-Butylbenzene	<53.0	ug/L	125	53.0	125		05/30/21 22:48	135-98-8	
tert-Butylbenzene	<73.3	ug/L	125	73.3	125		05/30/21 22:48	98-06-6	
trans-1,2-Dichloroethene	<66.0	ug/L	125	66.0	125		05/30/21 22:48	156-60-5	
trans-1,3-Dichloropropene	<433	ug/L	625	433	125		05/30/21 22:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		125		05/30/21 22:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		125		05/30/21 22:48	2199-69-1	
Toluene-d8 (S)	93	%	70-130		125		05/30/21 22:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: Trip Blank **Lab ID: 10562224007** Collected: 05/24/21 00:00 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/30/21 22:29	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/30/21 22:29	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/30/21 22:29	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/30/21 22:29	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/30/21 22:29	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/30/21 22:29	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		05/30/21 22:29	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		05/30/21 22:29	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		05/30/21 22:29	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/30/21 22:29	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/30/21 22:29	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/30/21 22:29	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/30/21 22:29	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/30/21 22:29	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/30/21 22:29	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/30/21 22:29	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/30/21 22:29	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/30/21 22:29	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		05/30/21 22:29	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/30/21 22:29	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		05/30/21 22:29	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/30/21 22:29	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/30/21 22:29	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		05/30/21 22:29	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		05/30/21 22:29	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/30/21 22:29	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/30/21 22:29	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/30/21 22:29	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/30/21 22:29	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/30/21 22:29	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/30/21 22:29	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/30/21 22:29	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/30/21 22:29	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/30/21 22:29	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/30/21 22:29	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/30/21 22:29	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/30/21 22:29	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		05/30/21 22:29	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/30/21 22:29	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		05/30/21 22:29	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/30/21 22:29	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/30/21 22:29	1634-04-4	
Methylene Chloride	0.66J	ug/L	5.0	0.32	1		05/30/21 22:29	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/30/21 22:29	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/30/21 22:29	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Sample: Trip Blank **Lab ID: 10562224007** Collected: 05/24/21 00:00 Received: 05/24/21 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/30/21 22:29	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/30/21 22:29	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/30/21 22:29	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/30/21 22:29	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/30/21 22:29	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/30/21 22:29	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/30/21 22:29	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/30/21 22:29	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		05/30/21 22:29	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		05/30/21 22:29	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/30/21 22:29	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		05/30/21 22:29	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		05/30/21 22:29	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		05/30/21 22:29	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/30/21 22:29	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/30/21 22:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		05/30/21 22:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		05/30/21 22:29	2199-69-1	
Toluene-d8 (S)	92	%	70-130		1		05/30/21 22:29	2037-26-5	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

QC Batch: 386610

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10562224006, 10562224007

METHOD BLANK: 2230805

Matrix: Water

Associated Lab Samples: 10562224006, 10562224007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	05/30/21 15:40	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/30/21 15:40	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	05/30/21 15:40	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	05/30/21 15:40	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/30/21 15:40	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/30/21 15:40	
1,1-Dichloropropene	ug/L	<0.41	1.0	05/30/21 15:40	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	05/30/21 15:40	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	05/30/21 15:40	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/30/21 15:40	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/30/21 15:40	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/30/21 15:40	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/30/21 15:40	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/30/21 15:40	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/30/21 15:40	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/30/21 15:40	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/30/21 15:40	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/30/21 15:40	
1,3-Dichloropropane	ug/L	<0.30	1.0	05/30/21 15:40	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/30/21 15:40	
2,2-Dichloropropane	ug/L	<4.2	5.0	05/30/21 15:40	
2-Chlorotoluene	ug/L	<0.89	5.0	05/30/21 15:40	
4-Chlorotoluene	ug/L	<0.89	5.0	05/30/21 15:40	
Benzene	ug/L	<0.30	1.0	05/30/21 15:40	
Bromobenzene	ug/L	<0.36	1.0	05/30/21 15:40	
Bromochloromethane	ug/L	<0.36	5.0	05/30/21 15:40	
Bromodichloromethane	ug/L	<0.42	1.0	05/30/21 15:40	
Bromoform	ug/L	<3.8	5.0	05/30/21 15:40	
Bromomethane	ug/L	<1.2	5.0	05/30/21 15:40	
Carbon tetrachloride	ug/L	<0.37	1.0	05/30/21 15:40	
Chlorobenzene	ug/L	<0.86	1.0	05/30/21 15:40	
Chloroethane	ug/L	<1.4	5.0	05/30/21 15:40	
Chloroform	ug/L	<1.2	5.0	05/30/21 15:40	
Chloromethane	ug/L	<1.6	5.0	05/30/21 15:40	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/30/21 15:40	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	05/30/21 15:40	
Dibromochloromethane	ug/L	<2.6	5.0	05/30/21 15:40	
Dibromomethane	ug/L	<0.99	5.0	05/30/21 15:40	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/30/21 15:40	
Diisopropyl ether	ug/L	<1.1	5.0	05/30/21 15:40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68
Pace Project No.: 10562224

METHOD BLANK: 2230805 Matrix: Water
Associated Lab Samples: 10562224006, 10562224007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	05/30/21 15:40	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	05/30/21 15:40	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	05/30/21 15:40	
m&p-Xylene	ug/L	<0.70	2.0	05/30/21 15:40	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/30/21 15:40	
Methylene Chloride	ug/L	<0.32	5.0	05/30/21 15:40	
n-Butylbenzene	ug/L	<0.86	1.0	05/30/21 15:40	
n-Propylbenzene	ug/L	<0.35	1.0	05/30/21 15:40	
Naphthalene	ug/L	<1.1	5.0	05/30/21 15:40	
o-Xylene	ug/L	<0.35	1.0	05/30/21 15:40	
p-Isopropyltoluene	ug/L	<1.0	5.0	05/30/21 15:40	
sec-Butylbenzene	ug/L	<0.42	1.0	05/30/21 15:40	
Styrene	ug/L	<0.36	1.0	05/30/21 15:40	
tert-Butylbenzene	ug/L	<0.59	1.0	05/30/21 15:40	
Tetrachloroethene	ug/L	<0.41	1.0	05/30/21 15:40	
Toluene	ug/L	<0.29	1.0	05/30/21 15:40	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/30/21 15:40	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	05/30/21 15:40	
Trichloroethene	ug/L	<0.32	1.0	05/30/21 15:40	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/30/21 15:40	
Vinyl chloride	ug/L	<0.17	1.0	05/30/21 15:40	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	05/30/21 15:40	
4-Bromofluorobenzene (S)	%	99	70-130	05/30/21 15:40	
Toluene-d8 (S)	%	96	70-130	05/30/21 15:40	

LABORATORY CONTROL SAMPLE: 2230806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	66-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	45.7	91	68-132	
1,1-Dichloroethene	ug/L	50	50.1	100	85-126	
1,1-Dichloropropene	ug/L	50	48.2	96	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.0	92	70-130	
1,2,3-Trichloropropane	ug/L	50	46.8	94	65-135	
1,2,4-Trichlorobenzene	ug/L	50	46.6	93	70-130	
1,2,4-Trimethylbenzene	ug/L	50	46.3	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.2	90	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
1,2-Dichloropropane	ug/L	50	46.0	92	78-125	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

LABORATORY CONTROL SAMPLE: 2230806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/L	50	46.9	94	70-130	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,3-Dichloropropane	ug/L	50	46.5	93	70-133	
1,4-Dichlorobenzene	ug/L	50	44.7	89	70-130	
2,2-Dichloropropane	ug/L	50	48.7	97	59-136	
2-Chlorotoluene	ug/L	50	45.1	90	70-130	
4-Chlorotoluene	ug/L	50	45.5	91	70-130	
Benzene	ug/L	50	46.6	93	70-132	
Bromobenzene	ug/L	50	46.1	92	70-130	
Bromochloromethane	ug/L	50	51.0	102	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	57.4	115	65-130	
Bromomethane	ug/L	50	42.3	85	44-128	
Carbon tetrachloride	ug/L	50	55.2	110	70-130	
Chlorobenzene	ug/L	50	46.0	92	70-130	
Chloroethane	ug/L	50	43.8	88	73-137	
Chloroform	ug/L	50	47.9	96	80-122	
Chloromethane	ug/L	50	41.9	84	27-148	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dibromomethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	51.5	103	22-151	
Diisopropyl ether	ug/L	50	41.5	83	53-135	
Ethylbenzene	ug/L	50	46.8	94	80-123	
Hexachloro-1,3-butadiene	ug/L	50	48.9	98	69-130	
Isopropylbenzene (Cumene)	ug/L	50	49.4	99	70-130	
m&p-Xylene	ug/L	100	93.8	94	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	66-130	
Methylene Chloride	ug/L	50	45.1	90	70-130	
n-Butylbenzene	ug/L	50	47.0	94	70-132	
n-Propylbenzene	ug/L	50	47.3	95	70-130	
Naphthalene	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
p-Isopropyltoluene	ug/L	50	48.7	97	70-130	
sec-Butylbenzene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	47.2	94	70-130	
tert-Butylbenzene	ug/L	50	49.2	98	70-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	45.8	92	80-121	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.4	87	58-125	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	52.5	105	84-148	
Vinyl chloride	ug/L	50	45.4	91	63-142	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

LABORATORY CONTROL SAMPLE: 2230806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230807 2230808

Parameter	Units	40227616005	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.36	50	50	50.8	50.6	102	101	70-130	0	20	
1,1,1-Trichloroethane	ug/L	0.31J	50	50	54.8	54.8	109	109	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	41.5	43.1	83	86	66-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	46.6	45.3	93	91	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	45.8	46.4	92	93	68-132	1	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50.2	51.0	100	102	76-132	2	20	
1,1-Dichloropropene	ug/L	<0.41	50	50	47.4	50.2	95	100	70-130	6	20	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	45.3	54.5	91	109	70-130	18	20	
1,2,3-Trichloropropane	ug/L	<0.56	50	50	41.1	42.2	82	84	65-135	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.6	51.5	95	103	70-130	8	20	
1,2,4-Trimethylbenzene	ug/L	<0.45	50	50	45.3	45.9	91	92	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	40.3	46.5	81	93	51-126	14	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	48.6	49.3	97	99	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	45.2	46.4	90	93	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	51.3	50.0	103	100	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	44.3	43.8	89	88	77-125	1	20	
1,3,5-Trimethylbenzene	ug/L	<0.36	50	50	45.4	46.1	91	92	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	46.0	46.4	92	93	70-130	1	20	
1,3-Dichloropropane	ug/L	<0.30	50	50	44.8	45.1	90	90	70-133	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	45.0	44.6	90	89	70-130	1	20	
2,2-Dichloropropane	ug/L	<4.2	50	50	49.5	50.3	99	101	59-136	2	20	
2-Chlorotoluene	ug/L	<0.89	50	50	42.5	43.6	85	87	70-130	3	20	
4-Chlorotoluene	ug/L	<0.89	50	50	43.5	44.0	87	88	70-130	1	20	
Benzene	ug/L	<0.30	50	50	46.1	46.1	92	92	70-132	0	20	
Bromobenzene	ug/L	<0.36	50	50	46.6	46.9	93	94	70-130	1	20	
Bromochloromethane	ug/L	<0.36	50	50	51.7	50.7	103	101	70-130	2	20	
Bromodichloromethane	ug/L	<0.42	50	50	51.6	50.7	103	101	70-130	2	20	
Bromoform	ug/L	<3.8	50	50	61.1	61.5	122	123	65-130	1	20	
Bromomethane	ug/L	<1.2	50	50	44.0	44.8	88	90	44-128	2	21	
Carbon tetrachloride	ug/L	<0.37	50	50	60.3	60.4	121	121	70-132	0	20	
Chlorobenzene	ug/L	<0.86	50	50	46.4	47.0	93	94	70-130	1	20	
Chloroethane	ug/L	<1.4	50	50	43.1	42.9	86	86	70-137	0	20	
Chloroform	ug/L	<1.2	50	50	49.5	49.4	99	99	80-122	0	20	
Chloromethane	ug/L	<1.6	50	50	40.8	41.4	82	83	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	48.4	47.7	97	95	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	46.1	46.5	92	93	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	52.3	51.9	105	104	70-130	1	20	
Dibromomethane	ug/L	<0.99	50	50	49.7	48.7	99	97	70-130	2	20	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230807		2230808		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40227616005 Result	MS Spike Conc.	MSD Spike Conc.									
Dichlorodifluoromethane	ug/L	<0.46	50	50	56.3	54.8	113	110	22-158	3	20		
Diisopropyl ether	ug/L	<1.1	50	50	38.8	38.6	78	77	53-135	1	20		
Ethylbenzene	ug/L	<0.33	50	50	47.6	47.8	95	96	80-123	0	20		
Hexachloro-1,3-butadiene	ug/L	<2.7	50	50	54.3	56.9	109	114	69-130	5	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	51.2	52.0	102	104	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	94.8	95.8	95	96	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	47.7	47.3	95	95	66-130	1	20		
Methylene Chloride	ug/L	<0.32	50	50	45.2	44.4	90	89	70-130	2	20		
n-Butylbenzene	ug/L	<0.86	50	50	44.1	45.2	88	90	70-132	2	20		
n-Propylbenzene	ug/L	<0.35	50	50	44.3	44.8	89	90	70-130	1	20		
Naphthalene	ug/L	<1.1	50	50	43.5	51.2	87	102	70-130	16	20		
o-Xylene	ug/L	<0.35	50	50	47.5	47.7	95	95	70-130	0	20		
p-Isopropyltoluene	ug/L	<1.0	50	50	46.8	48.4	94	97	70-130	3	20		
sec-Butylbenzene	ug/L	<0.42	50	50	47.5	48.6	95	97	70-130	2	20		
Styrene	ug/L	<0.36	50	50	48.1	48.4	96	97	70-130	1	20		
tert-Butylbenzene	ug/L	<0.59	50	50	48.2	48.9	96	98	70-130	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	56.9	57.9	113	115	70-130	2	20		
Toluene	ug/L	<0.29	50	50	46.0	45.8	92	92	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	47.8	48.2	96	96	70-134	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	42.9	44.4	86	89	58-130	4	20		
Trichloroethene	ug/L	3.0	50	50	52.3	52.9	98	100	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	60.1	58.6	120	117	82-151	3	20		
Vinyl chloride	ug/L	<0.17	50	50	44.7	44.8	89	90	61-143	0	20		
1,2-Dichlorobenzene-d4 (S)	%						102	102	70-130				
4-Bromofluorobenzene (S)	%						95	95	70-130				
Toluene-d8 (S)	%						97	97	70-130				

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68
Pace Project No.: 10562224

QC Batch: 386810 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10562224001, 10562224002, 10562224003, 10562224004, 10562224005

METHOD BLANK: 2231855 Matrix: Water
Associated Lab Samples: 10562224001, 10562224002, 10562224003, 10562224004, 10562224005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/03/21 07:38	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/03/21 07:38	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/03/21 07:38	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/03/21 07:38	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/03/21 07:38	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/03/21 07:38	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/03/21 07:38	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/03/21 07:38	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/03/21 07:38	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/03/21 07:38	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/03/21 07:38	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/03/21 07:38	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/03/21 07:38	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/03/21 07:38	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/03/21 07:38	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/03/21 07:38	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/03/21 07:38	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/03/21 07:38	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/03/21 07:38	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/03/21 07:38	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/03/21 07:38	
2-Chlorotoluene	ug/L	<0.89	5.0	06/03/21 07:38	
4-Chlorotoluene	ug/L	<0.89	5.0	06/03/21 07:38	
Benzene	ug/L	<0.30	1.0	06/03/21 07:38	
Bromobenzene	ug/L	<0.36	1.0	06/03/21 07:38	
Bromochloromethane	ug/L	<0.36	5.0	06/03/21 07:38	
Bromodichloromethane	ug/L	<0.42	1.0	06/03/21 07:38	
Bromoform	ug/L	<3.8	5.0	06/03/21 07:38	
Bromomethane	ug/L	<1.2	5.0	06/03/21 07:38	
Carbon tetrachloride	ug/L	<0.37	1.0	06/03/21 07:38	
Chlorobenzene	ug/L	<0.86	1.0	06/03/21 07:38	
Chloroethane	ug/L	<1.4	5.0	06/03/21 07:38	
Chloroform	ug/L	<1.2	5.0	06/03/21 07:38	
Chloromethane	ug/L	<1.6	5.0	06/03/21 07:38	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/03/21 07:38	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/03/21 07:38	
Dibromochloromethane	ug/L	<2.6	5.0	06/03/21 07:38	
Dibromomethane	ug/L	<0.99	5.0	06/03/21 07:38	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/03/21 07:38	
Diisopropyl ether	ug/L	<1.1	5.0	06/03/21 07:38	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

METHOD BLANK: 2231855

Matrix: Water

Associated Lab Samples: 10562224001, 10562224002, 10562224003, 10562224004, 10562224005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/03/21 07:38	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/03/21 07:38	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/03/21 07:38	
m&p-Xylene	ug/L	<0.70	2.0	06/03/21 07:38	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/03/21 07:38	
Methylene Chloride	ug/L	<0.32	5.0	06/03/21 07:38	
n-Butylbenzene	ug/L	<0.86	1.0	06/03/21 07:38	
n-Propylbenzene	ug/L	<0.35	1.0	06/03/21 07:38	
Naphthalene	ug/L	<1.1	5.0	06/03/21 07:38	
o-Xylene	ug/L	<0.35	1.0	06/03/21 07:38	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/03/21 07:38	
sec-Butylbenzene	ug/L	<0.42	1.0	06/03/21 07:38	
Styrene	ug/L	<0.36	1.0	06/03/21 07:38	
tert-Butylbenzene	ug/L	<0.59	1.0	06/03/21 07:38	
Tetrachloroethene	ug/L	<0.41	1.0	06/03/21 07:38	
Toluene	ug/L	<0.29	1.0	06/03/21 07:38	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/03/21 07:38	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/03/21 07:38	
Trichloroethene	ug/L	<0.32	1.0	06/03/21 07:38	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/03/21 07:38	
Vinyl chloride	ug/L	<0.17	1.0	06/03/21 07:38	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	06/03/21 07:38	
4-Bromofluorobenzene (S)	%	96	70-130	06/03/21 07:38	
Toluene-d8 (S)	%	99	70-130	06/03/21 07:38	

LABORATORY CONTROL SAMPLE: 2231856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	66-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	53.6	107	68-132	
1,1-Dichloroethene	ug/L	50	54.8	110	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.0	92	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	51.1	102	70-130	
1,2-Dichloropropane	ug/L	50	53.6	107	78-125	
1,3-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.3	97	70-130	
Benzene	ug/L	50	52.0	104	70-132	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	45.6	91	65-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

LABORATORY CONTROL SAMPLE: 2231856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	50.5	101	44-128	
Carbon tetrachloride	ug/L	50	53.5	107	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	50.2	100	73-137	
Chloroform	ug/L	50	52.5	105	80-122	
Chloromethane	ug/L	50	62.6	125	27-148	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.6	93	70-130	
Dibromochloromethane	ug/L	50	47.3	95	70-130	
Dichlorodifluoromethane	ug/L	50	56.6	113	22-151	
Ethylbenzene	ug/L	50	52.4	105	80-123	
Isopropylbenzene (Cumene)	ug/L	50	54.1	108	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.1	96	66-130	
Methylene Chloride	ug/L	50	48.2	96	70-130	
o-Xylene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	49.8	100	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	58-125	
Trichloroethene	ug/L	50	52.4	105	70-130	
Trichlorofluoromethane	ug/L	50	61.5	123	84-148	
Vinyl chloride	ug/L	50	63.9	128	63-142	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 49161494 SRC GW Samp T68

Pace Project No.: 10562224

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494 SRC GW Samp T68
Pace Project No.: 10562224

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10562224001	MW-1/T68	EPA 8260	386810		
10562224002	MW-2/T68	EPA 8260	386810		
10562224003	MW-4/T68	EPA 8260	386810		
10562224004	MW-5/T68	EPA 8260	386810		
10562224005	MW-5/T66	EPA 8260	386810		
10562224006	MW-6/T68	EPA 8260	386610		
10562224007	Trip Blank	EPA 8260	386610		

REPORT OF LABORATORY ANALYSIS

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Barr Engineering Co. Chain of Custody

40227589

Sample Origination State

CO MI MN MO ND TX UT WI Other: _____

REPORT TO	INVOICE TO
Company: <u>Barr Engineering Co.</u>	Company: <u>Barr</u>
Address: <u>325 S. 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 Tank 68</u>	Barr Project No: <u>4916194.01 200 202</u>

Perform MS/MSD Y / N	Total Number of Containers	Analysis Requested		% Solids
		Water	Soil	
N	3	X		
N	3	X		
N	3	X		
N	3	X		
N	3	X		
N	3	X		
N	2	X		

COC Number: **№ 589407**

COC 1 of 1

Matrix Code: _____ Preservative Code: _____

GW = Groundwater A = None
 SW = Surface Water B = HCl
 WW = Waste Water C = HNO₃
 DW = Drinking Water D = H₂SO₄
 S = Soil/Solid E = NaOH
 SD = Sediment F = MeOH
 O = Other G = NaHSO₄
 H = Na₂S₂O₃
 I = Ascorbic Acid
 J = Zn Acetate
 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	Water	Soil	% Solids	Preservative Code	Field Filtered Y/N
	Start	Stop	Unit (m./ft. or in.)										
1. <u>MW-1/T68</u>	_____	_____	_____	<u>05/29/21</u>	<u>1005</u>	<u>GW</u>	<u>N</u>	<u>3</u>	<u>X</u>				<u>001</u>
2. <u>MW-2/T68</u>	_____	_____	_____		<u>1015</u>		<u>N</u>	<u>3</u>	<u>X</u>				<u>002</u>
3. <u>MW-4/T68</u>	_____	_____	_____		<u>1023</u>		<u>N</u>	<u>3</u>	<u>X</u>				<u>003</u>
4. <u>MW-5/T68</u>	_____	_____	_____		<u>1028</u>		<u>N</u>	<u>3</u>	<u>X</u>				<u>004</u>
5. <u>MW-5/T66</u>	_____	_____	_____		<u>1034</u>		<u>N</u>	<u>3</u>	<u>X</u>				<u>005</u>
6. <u>MW-6/T68</u>	_____	_____	_____		<u>1032</u>		<u>N</u>	<u>3</u>	<u>X</u>				<u>006</u>
7. <u>Trip Blank</u>	_____	_____	_____		_____		<u>N</u>	<u>2</u>	<u>X</u>				<u>007</u>
8.													
9.													
10.													

BARR USE ONLY		Relinquished by:	On Ice?	Date	Time	Received by:	Date	Time
Sampled by: <u>VMJ3</u>		<u>Kent Smith</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>5/29/21</u>	<u>15:45</u>	<u>Steve Pace</u>	<u>5/29/21</u>	<u>15:45</u>
Barr Proj. Manager: <u>LMC</u>		<u>Steve Pace</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>5/29/21</u>	<u>15:45</u>			
Barr DQ Manager: <u>JET</u>	Samples Shipped VIA:	<input type="checkbox"/> Ground Courier <input type="checkbox"/> Air Carrier		Air Bill Number:		Requested Due Date:		
Lab Name: <u>Pace</u>	<input type="checkbox"/> Sampler <input type="checkbox"/> Other: _____	Custody Seal Intact? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> None		Temperature on Receipt (°C): <u>1.6</u>		<input checked="" type="checkbox"/> Standard Turn Around Time		
Lab Location: <u>Green Bay, WI</u>	Lab WO: _____	Rush <input type="checkbox"/> (mm/dd/yyyy)		Page 29 of 32				

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

Feedex 5/26/21 0940
McKee 5/26/21 0940

HRLG15TDFORM15 Chain of Custody Form 2015 RLG Rev. 01/30/2020



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

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

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: BARR Engineering

WO# : 40227589

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



Tracking #: 1456 2247 5465

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 90 Type of Ice: Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 / JCorr: .5

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

Person examining contents:
 Date: 3/24/20 / Initials: HP
 Labeled By Initials: SRK

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

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

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

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

Internal Transfer Chain of Custody

40227589



Samples Pre-Logged into eCOC.

State Of Origin: WI

Cert. Needed: Yes No

Workorder: 10562224 Workorder Name: 49161494 SRC GW Samp T68

Owner Received Date: 5/24/2021 Results Requested By: 6/8/2021

Report To		Subcontract To					Requested Analysis												
Amanda Albrecht Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-6382		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436																	
							8260 VOC (Pace-Green Bay)												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					HCL	8260 VOC (Pace-Green Bay)	LAB USE ONLY						
1	MW-1/T68	PS	5/24/2021 10:05	10562224001	Water	3						X							
2	MW-2/T68	PS	5/24/2021 10:15	10562224002	Water	3						X							
3	MW-4/T68	PS	5/24/2021 10:23	10562224003	Water	3						X							
4	MW-5/T68	PS	5/24/2021 10:28	10562224004	Water	3						X							
5	MW-5/T66	PS	5/24/2021 10:34	10562224005	Water	3						X							
6	MW-6/T68	PS	5/24/2021 10:32	10562224006	Water	3						X							
7	Trip Blank	PS	5/24/2021 00:00	10562224007	Water	2						X							
												Comments							
Transfers	Released By	Date/Time	Received By	Date/Time	Std full list														
1	Fedex	5/26/21 09:40	[Signature]	5/26/21 09:40															
2																			
3																			
Cooler Temperature on Receipt		Custody Seal		Received on Ice		Samples Intact													
-5 °C		(Y) or (N)		(Y) or (N)		(Y) or (N)													

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

October 28, 2021

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

RE: Project: 49161494 SRC GW Sampling TK68
Pace Project No.: 10581711

Dear Jim Taraldsen:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,



Amanda Albrecht
amanda.albrecht@pacelabs.com
(612)607-6382
Project Manager

Enclosures

cc: BarrDM@barr.com, Barr Engineering
Data Management, Barr Engineering
Accounts Payable, Barr Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

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 #: 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 SRC GW Sampling TK68

Pace Project No.: 10581711

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10581711001	MW-1/T68	Water	10/04/21 11:40	10/05/21 15:30
10581711002	MW-2/T68	Water	10/04/21 11:55	10/05/21 15:30
10581711003	MW-4/T68	Water	10/04/21 12:00	10/05/21 15:30
10581711004	MW-5/T68	Water	10/04/21 12:04	10/05/21 15:30
10581711005	MW-6/T68	Water	10/04/21 12:07	10/05/21 15:30
10581711006	MW-5/T66	Water	10/04/21 12:10	10/05/21 15:30
10581711007	Trip Blank	Water	10/04/21 00:00	10/05/21 15:30

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SAMPLE ANALYTE COUNT

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10581711001	MW-1/T68	EPA 8260D	NMB	64	PASI-M
10581711002	MW-2/T68	EPA 8260D	NMB, ZH	64	PASI-M
10581711003	MW-4/T68	EPA 8260D	ZH	64	PASI-M
10581711004	MW-5/T68	EPA 8260D	NMB	64	PASI-M
10581711005	MW-6/T68	EPA 8260D	NMB	64	PASI-M
10581711006	MW-5/T66	EPA 8260D	NMB, ZH	64	PASI-M
10581711007	Trip Blank	EPA 8260D	NMB	64	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Date: October 28, 2021

Case Narrative

Volatile Organics Analysis

8260D

Three samples were analyzed within method holding time at an elevated dilution based on an evaluation of historical target analyte concentrations. After the analysis, it was determined that a number of analytes were not detected at the elevated dilution and could have been analyzed with a lower dilution factor. A second analysis, outside of the method recommended holding time, was performed and is reported for all applicable analytes.

MW-2/T68 was initially analyzed with a 100x dilution factor.

MW-4/T68 was initially analyzed with a 50x dilution factor.

MW-5/T66 was initially analyzed with a 200x dilution factor.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-1/T68 **Lab ID: 10581711001** Collected: 10/04/21 11:40 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	0.61	0.18	1		10/15/21 14:55	630-20-6	
1,1,1-Trichloroethane	<0.17	ug/L	0.58	0.17	1		10/15/21 14:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.18	ug/L	0.58	0.18	1		10/15/21 14:55	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	0.65	0.20	1		10/15/21 14:55	79-00-5	
1,1-Dichloroethane	<0.14	ug/L	0.47	0.14	1		10/15/21 14:55	75-34-3	
1,1-Dichloroethene	<0.10	ug/L	0.35	0.10	1		10/15/21 14:55	75-35-4	
1,1-Dichloropropene	<0.12	ug/L	0.41	0.12	1		10/15/21 14:55	563-58-6	
1,2,3-Trichlorobenzene	<0.16	ug/L	0.53	0.16	1		10/15/21 14:55	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	3.9	1.2	1		10/15/21 14:55	96-18-4	
1,2,4-Trichlorobenzene	<0.061	ug/L	0.20	0.061	1		10/15/21 14:55	120-82-1	
1,2,4-Trimethylbenzene	<0.12	ug/L	0.40	0.12	1		10/15/21 14:55	95-63-6	
1,2-Dibromo-3-chloropropane	<0.82	ug/L	2.7	0.82	1		10/15/21 14:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.19	ug/L	0.64	0.19	1		10/15/21 14:55	106-93-4	
1,2-Dichlorobenzene	<0.18	ug/L	0.61	0.18	1		10/15/21 14:55	95-50-1	
1,2-Dichloroethane	<0.14	ug/L	0.48	0.14	1		10/15/21 14:55	107-06-2	
1,2-Dichloropropane	<0.24	ug/L	0.80	0.24	1		10/15/21 14:55	78-87-5	
1,3,5-Trimethylbenzene	<0.096	ug/L	0.32	0.096	1		10/15/21 14:55	108-67-8	
1,3-Dichlorobenzene	<0.13	ug/L	0.42	0.13	1		10/15/21 14:55	541-73-1	
1,3-Dichloropropane	<0.15	ug/L	0.49	0.15	1		10/15/21 14:55	142-28-9	
1,4-Dichlorobenzene	<0.15	ug/L	0.51	0.15	1		10/15/21 14:55	106-46-7	
2,2-Dichloropropane	<0.27	ug/L	0.90	0.27	1		10/15/21 14:55	594-20-7	
2-Chlorotoluene	<0.11	ug/L	0.36	0.11	1		10/15/21 14:55	95-49-8	
4-Chlorotoluene	<0.085	ug/L	0.28	0.085	1		10/15/21 14:55	106-43-4	
Benzene	<0.12	ug/L	0.40	0.12	1		10/15/21 14:55	71-43-2	
Bromobenzene	<0.18	ug/L	0.60	0.18	1		10/15/21 14:55	108-86-1	
Bromochloromethane	<0.40	ug/L	1.3	0.40	1		10/15/21 14:55	74-97-5	
Bromodichloromethane	<0.21	ug/L	0.69	0.21	1		10/15/21 14:55	75-27-4	
Bromoform	<0.24	ug/L	0.80	0.24	1		10/15/21 14:55	75-25-2	
Bromomethane	<1.9	ug/L	6.3	1.9	1		10/15/21 14:55	74-83-9	
Carbon tetrachloride	<0.14	ug/L	0.47	0.14	1		10/15/21 14:55	56-23-5	
Chlorobenzene	<0.11	ug/L	0.36	0.11	1		10/15/21 14:55	108-90-7	
Chloroethane	<0.41	ug/L	1.4	0.41	1		10/15/21 14:55	75-00-3	
Chloroform	<0.14	ug/L	0.48	0.14	1		10/15/21 14:55	67-66-3	
Chloromethane	<0.22	ug/L	0.75	0.22	1		10/15/21 14:55	74-87-3	
Dibromochloromethane	<0.17	ug/L	0.56	0.17	1		10/15/21 14:55	124-48-1	
Dibromomethane	<0.31	ug/L	1.0	0.31	1		10/15/21 14:55	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	0.53	0.16	1		10/15/21 14:55	75-71-8	
Diethyl ether (Ethyl ether)	<0.24	ug/L	0.80	0.24	1		10/15/21 14:55	60-29-7	
Ethylbenzene	<0.069	ug/L	0.23	0.069	1		10/15/21 14:55	100-41-4	
Hexachloro-1,3-butadiene	<0.43	ug/L	1.4	0.43	1		10/15/21 14:55	87-68-3	
Isopropylbenzene (Cumene)	<0.11	ug/L	0.37	0.11	1		10/15/21 14:55	98-82-8	
Methyl-tert-butyl ether	<0.18	ug/L	0.60	0.18	1		10/15/21 14:55	1634-04-4	
Methylene Chloride	<0.83	ug/L	2.8	0.83	1		10/15/21 14:55	75-09-2	
Naphthalene	<0.20	ug/L	0.67	0.20	1		10/15/21 14:55	91-20-3	
Styrene	<0.13	ug/L	0.42	0.13	1		10/15/21 14:55	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-1/T68 **Lab ID: 10581711001** Collected: 10/04/21 11:40 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<0.10	ug/L	0.34	0.10	1		10/15/21 14:55	127-18-4	
Toluene	<0.11	ug/L	0.38	0.11	1		10/15/21 14:55	108-88-3	
Trichloroethene	<0.13	ug/L	0.42	0.13	1		10/15/21 14:55	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	0.34	0.10	1		10/15/21 14:55	75-69-4	
Vinyl chloride	<0.063	ug/L	0.21	0.063	1		10/15/21 14:55	75-01-4	
cis-1,2-Dichloroethene	<0.17	ug/L	0.57	0.17	1		10/15/21 14:55	156-59-2	
cis-1,3-Dichloropropene	<0.16	ug/L	0.52	0.16	1		10/15/21 14:55	10061-01-5	
m&p-Xylene	<0.18	ug/L	0.59	0.18	1		10/15/21 14:55	179601-23-1	
n-Butylbenzene	<0.052	ug/L	0.17	0.052	1		10/15/21 14:55	104-51-8	
n-Propylbenzene	<0.090	ug/L	0.30	0.090	1		10/15/21 14:55	103-65-1	
o-Xylene	<0.12	ug/L	0.38	0.12	1		10/15/21 14:55	95-47-6	
p-Isopropyltoluene	<0.12	ug/L	0.38	0.12	1		10/15/21 14:55	99-87-6	
sec-Butylbenzene	<0.14	ug/L	0.45	0.14	1		10/15/21 14:55	135-98-8	
tert-Butylbenzene	<0.11	ug/L	0.38	0.11	1		10/15/21 14:55	98-06-6	
trans-1,2-Dichloroethene	<0.15	ug/L	0.51	0.15	1		10/15/21 14:55	156-60-5	
trans-1,3-Dichloropropene	<0.13	ug/L	0.42	0.13	1		10/15/21 14:55	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/15/21 14:55	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/15/21 14:55	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		10/15/21 14:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-2/T68 **Lab ID: 10581711002** Collected: 10/04/21 11:55 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<1.2	ug/L	4.0	1.2	10		10/22/21 22:21	630-20-6	H1
1,1,1-Trichloroethane	<1.8	ug/L	6.2	1.8	10		10/22/21 22:21	71-55-6	H1
1,1,2,2-Tetrachloroethane	<1.1	ug/L	3.8	1.1	10		10/22/21 22:21	79-34-5	H1
1,1,2-Trichloroethane	<1.5	ug/L	5.0	1.5	10		10/22/21 22:21	79-00-5	H1
1,1-Dichloroethane	<2.5	ug/L	8.4	2.5	10		10/22/21 22:21	75-34-3	H1
1,1-Dichloroethene	<2.5	ug/L	8.2	2.5	10		10/22/21 22:21	75-35-4	H1
1,1-Dichloropropene	<2.6	ug/L	8.8	2.6	10		10/22/21 22:21	563-58-6	H1
1,2,3-Trichlorobenzene	<1.6	ug/L	5.3	1.6	10		10/22/21 22:21	87-61-6	H1
1,2,3-Trichloropropane	<1.2	ug/L	4.1	1.2	10		10/22/21 22:21	96-18-4	H1
1,2,4-Trichlorobenzene	<1.4	ug/L	4.6	1.4	10		10/22/21 22:21	120-82-1	H1
1,2,4-Trimethylbenzene	1100	ug/L	39.6	11.9	100		10/15/21 15:13	95-63-6	
1,2-Dibromo-3-chloropropane	<3.0	ug/L	10.1	3.0	10		10/22/21 22:21	96-12-8	H1
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.7	1.7	10		10/22/21 22:21	106-93-4	H1
1,2-Dichlorobenzene	<1.4	ug/L	4.6	1.4	10		10/22/21 22:21	95-50-1	H1
1,2-Dichloroethane	364	ug/L	48.3	14.5	100		10/15/21 15:13	107-06-2	
1,2-Dichloropropane	<1.8	ug/L	5.9	1.8	10		10/22/21 22:21	78-87-5	H1
1,3,5-Trimethylbenzene	362	ug/L	32.0	9.6	100		10/15/21 15:13	108-67-8	
1,3-Dichlorobenzene	<1.1	ug/L	3.7	1.1	10		10/22/21 22:21	541-73-1	H1
1,3-Dichloropropane	<1.2	ug/L	4.0	1.2	10		10/22/21 22:21	142-28-9	H1
1,4-Dichlorobenzene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:21	106-46-7	H1
2,2-Dichloropropane	<1.8	ug/L	5.8	1.8	10		10/22/21 22:21	594-20-7	H1
2-Chlorotoluene	<1.3	ug/L	4.2	1.3	10		10/22/21 22:21	95-49-8	H1
4-Chlorotoluene	<1.1	ug/L	3.7	1.1	10		10/22/21 22:21	106-43-4	H1
Benzene	4820	ug/L	39.6	11.9	100		10/15/21 15:13	71-43-2	
Bromobenzene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:21	108-86-1	H1
Bromochloromethane	<3.1	ug/L	10.2	3.1	10		10/22/21 22:21	74-97-5	H1
Bromodichloromethane	<0.96	ug/L	3.2	0.96	10		10/22/21 22:21	75-27-4	H1
Bromoform	<2.1	ug/L	7.0	2.1	10		10/22/21 22:21	75-25-2	H1
Bromomethane	<3.2	ug/L	10.6	3.2	10		10/22/21 22:21	74-83-9	H1
Carbon tetrachloride	<1.8	ug/L	6.1	1.8	10		10/22/21 22:21	56-23-5	H1
Chlorobenzene	<1.1	ug/L	3.6	1.1	10		10/22/21 22:21	108-90-7	H1
Chloroethane	<2.3	ug/L	7.5	2.3	10		10/22/21 22:21	75-00-3	H1
Chloroform	<1.6	ug/L	5.5	1.6	10		10/22/21 22:21	67-66-3	H1
Chloromethane	<1.8	ug/L	6.1	1.8	10		10/22/21 22:21	74-87-3	H1
Dibromochloromethane	<1.3	ug/L	4.2	1.3	10		10/22/21 22:21	124-48-1	H1
Dibromomethane	<1.9	ug/L	6.2	1.9	10		10/22/21 22:21	74-95-3	H1
Dichlorodifluoromethane	<2.6	ug/L	8.6	2.6	10		10/22/21 22:21	75-71-8	H1
Diethyl ether (Ethyl ether)	<2.2	ug/L	7.3	2.2	10		10/22/21 22:21	60-29-7	H1
Ethylbenzene	233	ug/L	22.8	6.9	100		10/15/21 15:13	100-41-4	
Hexachloro-1,3-butadiene	<3.4	ug/L	11.3	3.4	10		10/22/21 22:21	87-68-3	H1
Isopropylbenzene (Cumene)	7.1	ug/L	5.2	1.6	10		10/22/21 22:21	98-82-8	H1
Methyl-tert-butyl ether	<1.6	ug/L	5.4	1.6	10		10/22/21 22:21	1634-04-4	H1
Methylene Chloride	<4.7	ug/L	15.6	4.7	10		10/22/21 22:21	75-09-2	H1
Naphthalene	150	ug/L	3.5	1.0	10		10/22/21 22:21	91-20-3	H1
Styrene	<0.88	ug/L	2.9	0.88	10		10/22/21 22:21	100-42-5	H1

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-2/T68 **Lab ID: 10581711002** Collected: 10/04/21 11:55 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<2.5	ug/L	8.3	2.5	10		10/22/21 22:21	127-18-4	H1
Toluene	3520	ug/L	37.6	11.3	100		10/15/21 15:13	108-88-3	
Trichloroethene	<0.86	ug/L	2.8	0.86	10		10/22/21 22:21	79-01-6	H1
Trichlorofluoromethane	<3.0	ug/L	10.1	3.0	10		10/22/21 22:21	75-69-4	H1
Vinyl chloride	<0.42	ug/L	1.4	0.42	10		10/22/21 22:21	75-01-4	H1
cis-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	10		10/22/21 22:21	156-59-2	H1
cis-1,3-Dichloropropene	<1.2	ug/L	4.1	1.2	10		10/22/21 22:21	10061-01-5	H1
m&p-Xylene	3530	ug/L	59.3	17.8	100		10/15/21 15:13	179601-23-1	
n-Butylbenzene	20.7	ug/L	5.4	1.6	10		10/22/21 22:21	104-51-8	H1
n-Propylbenzene	17.0	ug/L	6.0	1.8	10		10/22/21 22:21	103-65-1	H1
o-Xylene	2090	ug/L	38.3	11.5	100		10/15/21 15:13	95-47-6	
p-Isopropyltoluene	3.2J	ug/L	5.1	1.5	10		10/22/21 22:21	99-87-6	H1
sec-Butylbenzene	<1.5	ug/L	4.9	1.5	10		10/22/21 22:21	135-98-8	H1
tert-Butylbenzene	<1.7	ug/L	5.6	1.7	10		10/22/21 22:21	98-06-6	H1
trans-1,2-Dichloroethene	<1.9	ug/L	6.2	1.9	10		10/22/21 22:21	156-60-5	H1
trans-1,3-Dichloropropene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:21	10061-02-6	H1
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		10		10/22/21 22:21	2199-69-1	D4
4-Bromofluorobenzene (S)	103	%	75-125		10		10/22/21 22:21	460-00-4	
Toluene-d8 (S)	98	%	75-125		10		10/22/21 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-4/T68 **Lab ID: 10581711003** Collected: 10/04/21 12:00 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<0.12	ug/L	0.40	0.12	1		10/22/21 16:18	630-20-6	H1
1,1,1-Trichloroethane	<0.18	ug/L	0.62	0.18	1		10/22/21 16:18	71-55-6	H1
1,1,2,2-Tetrachloroethane	<0.11	ug/L	0.38	0.11	1		10/22/21 16:18	79-34-5	H1
1,1,2-Trichloroethane	<0.15	ug/L	0.50	0.15	1		10/22/21 16:18	79-00-5	H1
1,1-Dichloroethane	<0.25	ug/L	0.84	0.25	1		10/22/21 16:18	75-34-3	H1
1,1-Dichloroethene	<0.25	ug/L	0.82	0.25	1		10/22/21 16:18	75-35-4	H1
1,1-Dichloropropene	<0.26	ug/L	0.88	0.26	1		10/22/21 16:18	563-58-6	H1
1,2,3-Trichlorobenzene	<0.16	ug/L	0.53	0.16	1		10/22/21 16:18	87-61-6	H1
1,2,3-Trichloropropane	<0.12	ug/L	0.41	0.12	1		10/22/21 16:18	96-18-4	H1
1,2,4-Trichlorobenzene	<0.14	ug/L	0.46	0.14	1		10/22/21 16:18	120-82-1	H1
1,2,4-Trimethylbenzene	11.2	ug/L	0.31	0.092	1		10/22/21 16:18	95-63-6	H1
1,2-Dibromo-3-chloropropane	<0.30	ug/L	1.0	0.30	1		10/22/21 16:18	96-12-8	H1
1,2-Dibromoethane (EDB)	<0.17	ug/L	0.57	0.17	1		10/22/21 16:18	106-93-4	H1
1,2-Dichlorobenzene	<0.14	ug/L	0.46	0.14	1		10/22/21 16:18	95-50-1	H1
1,2-Dichloroethane	<0.16	ug/L	0.52	0.16	1		10/22/21 16:18	107-06-2	H1
1,2-Dichloropropane	<0.18	ug/L	0.59	0.18	1		10/22/21 16:18	78-87-5	H1
1,3,5-Trimethylbenzene	2.0	ug/L	0.44	0.13	1		10/22/21 16:18	108-67-8	H1
1,3-Dichlorobenzene	<0.11	ug/L	0.37	0.11	1		10/22/21 16:18	541-73-1	H1
1,3-Dichloropropane	<0.12	ug/L	0.40	0.12	1		10/22/21 16:18	142-28-9	H1
1,4-Dichlorobenzene	<0.13	ug/L	0.44	0.13	1		10/22/21 16:18	106-46-7	H1
2,2-Dichloropropane	<0.18	ug/L	0.58	0.18	1		10/22/21 16:18	594-20-7	H1
2-Chlorotoluene	<0.13	ug/L	0.42	0.13	1		10/22/21 16:18	95-49-8	H1
4-Chlorotoluene	<0.11	ug/L	0.37	0.11	1		10/22/21 16:18	106-43-4	H1
Benzene	17.4	ug/L	0.58	0.17	1		10/22/21 16:18	71-43-2	H1
Bromobenzene	<0.13	ug/L	0.44	0.13	1		10/22/21 16:18	108-86-1	H1
Bromochloromethane	<0.31	ug/L	1.0	0.31	1		10/22/21 16:18	74-97-5	H1
Bromodichloromethane	<0.096	ug/L	0.32	0.096	1		10/22/21 16:18	75-27-4	H1
Bromoform	<0.21	ug/L	0.70	0.21	1		10/22/21 16:18	75-25-2	H1
Bromomethane	<0.32	ug/L	1.1	0.32	1		10/22/21 16:18	74-83-9	H1
Carbon tetrachloride	<0.18	ug/L	0.61	0.18	1		10/22/21 16:18	56-23-5	H1
Chlorobenzene	<0.11	ug/L	0.36	0.11	1		10/22/21 16:18	108-90-7	H1
Chloroethane	<0.23	ug/L	0.75	0.23	1		10/22/21 16:18	75-00-3	H1
Chloroform	<0.16	ug/L	0.55	0.16	1		10/22/21 16:18	67-66-3	H1
Chloromethane	<0.18	ug/L	0.61	0.18	1		10/22/21 16:18	74-87-3	H1
Dibromochloromethane	<0.13	ug/L	0.42	0.13	1		10/22/21 16:18	124-48-1	H1
Dibromomethane	<0.19	ug/L	0.62	0.19	1		10/22/21 16:18	74-95-3	H1
Dichlorodifluoromethane	<0.26	ug/L	0.86	0.26	1		10/22/21 16:18	75-71-8	H1
Diethyl ether (Ethyl ether)	<0.22	ug/L	0.73	0.22	1		10/22/21 16:18	60-29-7	H1
Ethylbenzene	2.6	ug/L	0.45	0.14	1		10/22/21 16:18	100-41-4	H1
Hexachloro-1,3-butadiene	<0.34	ug/L	1.1	0.34	1		10/22/21 16:18	87-68-3	H1
Isopropylbenzene (Cumene)	<0.16	ug/L	0.52	0.16	1		10/22/21 16:18	98-82-8	H1
Methyl-tert-butyl ether	<0.16	ug/L	0.54	0.16	1		10/22/21 16:18	1634-04-4	H1
Methylene Chloride	<0.47	ug/L	1.6	0.47	1		10/22/21 16:18	75-09-2	H1
Naphthalene	0.47	ug/L	0.35	0.10	1		10/22/21 16:18	91-20-3	H1
Styrene	<0.088	ug/L	0.29	0.088	1		10/22/21 16:18	100-42-5	H1

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-4/T68 **Lab ID: 10581711003** Collected: 10/04/21 12:00 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<0.25	ug/L	0.83	0.25	1		10/22/21 16:18	127-18-4	H1
Toluene	<0.14	ug/L	0.48	0.14	1		10/22/21 16:18	108-88-3	H1
Trichloroethene	<0.086	ug/L	0.28	0.086	1		10/22/21 16:18	79-01-6	H1
Trichlorofluoromethane	<0.30	ug/L	1.0	0.30	1		10/22/21 16:18	75-69-4	H1
Vinyl chloride	<0.042	ug/L	0.14	0.042	1		10/22/21 16:18	75-01-4	H1
cis-1,2-Dichloroethene	<0.22	ug/L	0.73	0.22	1		10/22/21 16:18	156-59-2	H1
cis-1,3-Dichloropropene	<0.12	ug/L	0.41	0.12	1		10/22/21 16:18	10061-01-5	H1
m&p-Xylene	10.6	ug/L	0.98	0.30	1		10/22/21 16:18	179601-23-1	H1
n-Butylbenzene	<0.16	ug/L	0.54	0.16	1		10/22/21 16:18	104-51-8	H1
n-Propylbenzene	<0.18	ug/L	0.60	0.18	1		10/22/21 16:18	103-65-1	H1
o-Xylene	<0.11	ug/L	0.35	0.11	1		10/22/21 16:18	95-47-6	H1
p-Isopropyltoluene	<0.15	ug/L	0.51	0.15	1		10/22/21 16:18	99-87-6	H1
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		10/22/21 16:18	135-98-8	H1
tert-Butylbenzene	<0.17	ug/L	0.56	0.17	1		10/22/21 16:18	98-06-6	H1
trans-1,2-Dichloroethene	<0.19	ug/L	0.62	0.19	1		10/22/21 16:18	156-60-5	H1
trans-1,3-Dichloropropene	<0.13	ug/L	0.44	0.13	1		10/22/21 16:18	10061-02-6	H1
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/22/21 16:18	2199-69-1	
4-Bromofluorobenzene (S)	100	%	75-125		1		10/22/21 16:18	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		10/22/21 16:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-5/T68 **Lab ID: 10581711004** Collected: 10/04/21 12:04 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<18.3	ug/L	60.9	18.3	100		10/15/21 15:50	630-20-6	
1,1,1-Trichloroethane	<17.4	ug/L	57.9	17.4	100		10/15/21 15:50	71-55-6	
1,1,2,2-Tetrachloroethane	<17.5	ug/L	58.3	17.5	100		10/15/21 15:50	79-34-5	
1,1,2-Trichloroethane	<19.6	ug/L	65.3	19.6	100		10/15/21 15:50	79-00-5	
1,1-Dichloroethane	<14.1	ug/L	47.0	14.1	100		10/15/21 15:50	75-34-3	
1,1-Dichloroethene	<10.4	ug/L	34.6	10.4	100		10/15/21 15:50	75-35-4	
1,1-Dichloropropene	<12.2	ug/L	40.6	12.2	100		10/15/21 15:50	563-58-6	
1,2,3-Trichlorobenzene	<15.8	ug/L	52.6	15.8	100		10/15/21 15:50	87-61-6	
1,2,3-Trichloropropane	<117	ug/L	390	117	100		10/15/21 15:50	96-18-4	
1,2,4-Trichlorobenzene	<6.1	ug/L	20.4	6.1	100		10/15/21 15:50	120-82-1	
1,2,4-Trimethylbenzene	8190	ug/L	39.6	11.9	100		10/15/21 15:50	95-63-6	
1,2-Dibromo-3-chloropropane	<81.5	ug/L	271	81.5	100		10/15/21 15:50	96-12-8	
1,2-Dibromoethane (EDB)	<19.1	ug/L	63.6	19.1	100		10/15/21 15:50	106-93-4	
1,2-Dichlorobenzene	<18.3	ug/L	60.9	18.3	100		10/15/21 15:50	95-50-1	
1,2-Dichloroethane	56.1	ug/L	48.3	14.5	100		10/15/21 15:50	107-06-2	
1,2-Dichloropropane	<23.9	ug/L	79.6	23.9	100		10/15/21 15:50	78-87-5	
1,3,5-Trimethylbenzene	2290	ug/L	32.0	9.6	100		10/15/21 15:50	108-67-8	
1,3-Dichlorobenzene	<12.7	ug/L	42.3	12.7	100		10/15/21 15:50	541-73-1	
1,3-Dichloropropane	<14.7	ug/L	49.0	14.7	100		10/15/21 15:50	142-28-9	
1,4-Dichlorobenzene	<15.3	ug/L	50.9	15.3	100		10/15/21 15:50	106-46-7	
2,2-Dichloropropane	<27.0	ug/L	89.9	27.0	100		10/15/21 15:50	594-20-7	
2-Chlorotoluene	<10.9	ug/L	36.3	10.9	100		10/15/21 15:50	95-49-8	
4-Chlorotoluene	<8.5	ug/L	28.3	8.5	100		10/15/21 15:50	106-43-4	
Benzene	18500	ug/L	39.6	11.9	100		10/15/21 15:50	71-43-2	
Bromobenzene	<17.9	ug/L	59.6	17.9	100		10/15/21 15:50	108-86-1	
Bromochloromethane	<39.8	ug/L	133	39.8	100		10/15/21 15:50	74-97-5	
Bromodichloromethane	<20.7	ug/L	68.9	20.7	100		10/15/21 15:50	75-27-4	
Bromoform	<23.9	ug/L	79.6	23.9	100		10/15/21 15:50	75-25-2	
Bromomethane	<188	ug/L	626	188	100		10/15/21 15:50	74-83-9	
Carbon tetrachloride	<14.1	ug/L	47.0	14.1	100		10/15/21 15:50	56-23-5	
Chlorobenzene	<10.8	ug/L	36.0	10.8	100		10/15/21 15:50	108-90-7	
Chloroethane	<40.9	ug/L	136	40.9	100		10/15/21 15:50	75-00-3	
Chloroform	18.4J	ug/L	47.6	14.3	100		10/15/21 15:50	67-66-3	
Chloromethane	<22.4	ug/L	74.6	22.4	100		10/15/21 15:50	74-87-3	
Dibromochloromethane	<16.8	ug/L	55.9	16.8	100		10/15/21 15:50	124-48-1	
Dibromomethane	<30.6	ug/L	102	30.6	100		10/15/21 15:50	74-95-3	
Dichlorodifluoromethane	<16.0	ug/L	53.3	16.0	100		10/15/21 15:50	75-71-8	
Diethyl ether (Ethyl ether)	<24.1	ug/L	80.3	24.1	100		10/15/21 15:50	60-29-7	
Ethylbenzene	2920	ug/L	22.8	6.9	100		10/15/21 15:50	100-41-4	
Hexachloro-1,3-butadiene	<43.0	ug/L	143	43.0	100		10/15/21 15:50	87-68-3	
Isopropylbenzene (Cumene)	143	ug/L	37.3	11.2	100		10/15/21 15:50	98-82-8	
Methyl-tert-butyl ether	<18.1	ug/L	60.3	18.1	100		10/15/21 15:50	1634-04-4	
Methylene Chloride	<82.9	ug/L	276	82.9	100		10/15/21 15:50	75-09-2	
Naphthalene	1500	ug/L	66.9	20.1	100		10/15/21 15:50	91-20-3	
Styrene	<12.6	ug/L	42.0	12.6	100		10/15/21 15:50	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-5/T68 **Lab ID: 10581711004** Collected: 10/04/21 12:04 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<10.1	ug/L	33.6	10.1	100		10/15/21 15:50	127-18-4	
Toluene	38000	ug/L	188	56.5	500		10/15/21 16:08	108-88-3	
Trichloroethene	<12.6	ug/L	42.0	12.6	100		10/15/21 15:50	79-01-6	
Trichlorofluoromethane	<10.2	ug/L	34.0	10.2	100		10/15/21 15:50	75-69-4	
Vinyl chloride	<6.3	ug/L	21.0	6.3	100		10/15/21 15:50	75-01-4	
cis-1,2-Dichloroethene	<17.1	ug/L	56.9	17.1	100		10/15/21 15:50	156-59-2	
cis-1,3-Dichloropropene	<15.6	ug/L	51.9	15.6	100		10/15/21 15:50	10061-01-5	
m&p-Xylene	22300	ug/L	59.3	17.8	100		10/15/21 15:50	179601-23-1	
n-Butylbenzene	139	ug/L	17.2	5.2	100		10/15/21 15:50	104-51-8	
n-Propylbenzene	501	ug/L	29.9	9.0	100		10/15/21 15:50	103-65-1	
o-Xylene	10800	ug/L	38.3	11.5	100		10/15/21 15:50	95-47-6	
p-Isopropyltoluene	28.3J	ug/L	38.3	11.5	100		10/15/21 15:50	99-87-6	
sec-Butylbenzene	49.9	ug/L	45.0	13.5	100		10/15/21 15:50	135-98-8	
tert-Butylbenzene	<11.3	ug/L	37.6	11.3	100		10/15/21 15:50	98-06-6	
trans-1,2-Dichloroethene	<15.2	ug/L	50.6	15.2	100		10/15/21 15:50	156-60-5	
trans-1,3-Dichloropropene	<12.6	ug/L	42.0	12.6	100		10/15/21 15:50	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		100		10/15/21 15:50	2199-69-1	D4
4-Bromofluorobenzene (S)	100	%	75-125		100		10/15/21 15:50	460-00-4	
Toluene-d8 (S)	98	%	75-125		100		10/15/21 15:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-6/T68 **Lab ID: 10581711005** Collected: 10/04/21 12:07 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<18.3	ug/L	60.9	18.3	100		10/15/21 16:26	630-20-6	
1,1,1-Trichloroethane	<17.4	ug/L	57.9	17.4	100		10/15/21 16:26	71-55-6	
1,1,2,2-Tetrachloroethane	<17.5	ug/L	58.3	17.5	100		10/15/21 16:26	79-34-5	
1,1,2-Trichloroethane	<19.6	ug/L	65.3	19.6	100		10/15/21 16:26	79-00-5	
1,1-Dichloroethane	<14.1	ug/L	47.0	14.1	100		10/15/21 16:26	75-34-3	
1,1-Dichloroethene	<10.4	ug/L	34.6	10.4	100		10/15/21 16:26	75-35-4	
1,1-Dichloropropene	<12.2	ug/L	40.6	12.2	100		10/15/21 16:26	563-58-6	
1,2,3-Trichlorobenzene	<15.8	ug/L	52.6	15.8	100		10/15/21 16:26	87-61-6	
1,2,3-Trichloropropane	<117	ug/L	390	117	100		10/15/21 16:26	96-18-4	
1,2,4-Trichlorobenzene	<6.1	ug/L	20.4	6.1	100		10/15/21 16:26	120-82-1	
1,2,4-Trimethylbenzene	2730	ug/L	39.6	11.9	100		10/15/21 16:26	95-63-6	
1,2-Dibromo-3-chloropropane	<81.5	ug/L	271	81.5	100		10/15/21 16:26	96-12-8	
1,2-Dibromoethane (EDB)	<19.1	ug/L	63.6	19.1	100		10/15/21 16:26	106-93-4	
1,2-Dichlorobenzene	<18.3	ug/L	60.9	18.3	100		10/15/21 16:26	95-50-1	
1,2-Dichloroethane	192	ug/L	48.3	14.5	100		10/15/21 16:26	107-06-2	
1,2-Dichloropropane	<23.9	ug/L	79.6	23.9	100		10/15/21 16:26	78-87-5	
1,3,5-Trimethylbenzene	746	ug/L	32.0	9.6	100		10/15/21 16:26	108-67-8	
1,3-Dichlorobenzene	<12.7	ug/L	42.3	12.7	100		10/15/21 16:26	541-73-1	
1,3-Dichloropropane	<14.7	ug/L	49.0	14.7	100		10/15/21 16:26	142-28-9	
1,4-Dichlorobenzene	<15.3	ug/L	50.9	15.3	100		10/15/21 16:26	106-46-7	
2,2-Dichloropropane	<27.0	ug/L	89.9	27.0	100		10/15/21 16:26	594-20-7	
2-Chlorotoluene	<10.9	ug/L	36.3	10.9	100		10/15/21 16:26	95-49-8	
4-Chlorotoluene	<8.5	ug/L	28.3	8.5	100		10/15/21 16:26	106-43-4	
Benzene	18400	ug/L	39.6	11.9	100		10/15/21 16:26	71-43-2	
Bromobenzene	<17.9	ug/L	59.6	17.9	100		10/15/21 16:26	108-86-1	
Bromochloromethane	<39.8	ug/L	133	39.8	100		10/15/21 16:26	74-97-5	
Bromodichloromethane	<20.7	ug/L	68.9	20.7	100		10/15/21 16:26	75-27-4	
Bromoform	<23.9	ug/L	79.6	23.9	100		10/15/21 16:26	75-25-2	
Bromomethane	<188	ug/L	626	188	100		10/15/21 16:26	74-83-9	
Carbon tetrachloride	<14.1	ug/L	47.0	14.1	100		10/15/21 16:26	56-23-5	
Chlorobenzene	<10.8	ug/L	36.0	10.8	100		10/15/21 16:26	108-90-7	
Chloroethane	<40.9	ug/L	136	40.9	100		10/15/21 16:26	75-00-3	
Chloroform	21.2J	ug/L	47.6	14.3	100		10/15/21 16:26	67-66-3	
Chloromethane	<22.4	ug/L	74.6	22.4	100		10/15/21 16:26	74-87-3	
Dibromochloromethane	<16.8	ug/L	55.9	16.8	100		10/15/21 16:26	124-48-1	
Dibromomethane	<30.6	ug/L	102	30.6	100		10/15/21 16:26	74-95-3	
Dichlorodifluoromethane	<16.0	ug/L	53.3	16.0	100		10/15/21 16:26	75-71-8	
Diethyl ether (Ethyl ether)	<24.1	ug/L	80.3	24.1	100		10/15/21 16:26	60-29-7	
Ethylbenzene	1630	ug/L	22.8	6.9	100		10/15/21 16:26	100-41-4	
Hexachloro-1,3-butadiene	<43.0	ug/L	143	43.0	100		10/15/21 16:26	87-68-3	
Isopropylbenzene (Cumene)	52.1	ug/L	37.3	11.2	100		10/15/21 16:26	98-82-8	
Methyl-tert-butyl ether	<18.1	ug/L	60.3	18.1	100		10/15/21 16:26	1634-04-4	
Methylene Chloride	<82.9	ug/L	276	82.9	100		10/15/21 16:26	75-09-2	
Naphthalene	477	ug/L	66.9	20.1	100		10/15/21 16:26	91-20-3	
Styrene	<12.6	ug/L	42.0	12.6	100		10/15/21 16:26	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-6/T68 **Lab ID: 10581711005** Collected: 10/04/21 12:07 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<10.1	ug/L	33.6	10.1	100		10/15/21 16:26	127-18-4	
Toluene	16400	ug/L	37.6	11.3	100		10/15/21 16:26	108-88-3	
Trichloroethene	<12.6	ug/L	42.0	12.6	100		10/15/21 16:26	79-01-6	
Trichlorofluoromethane	<10.2	ug/L	34.0	10.2	100		10/15/21 16:26	75-69-4	
Vinyl chloride	<6.3	ug/L	21.0	6.3	100		10/15/21 16:26	75-01-4	
cis-1,2-Dichloroethene	<17.1	ug/L	56.9	17.1	100		10/15/21 16:26	156-59-2	
cis-1,3-Dichloropropene	<15.6	ug/L	51.9	15.6	100		10/15/21 16:26	10061-01-5	
m&p-Xylene	12700	ug/L	59.3	17.8	100		10/15/21 16:26	179601-23-1	
n-Butylbenzene	21.9	ug/L	17.2	5.2	100		10/15/21 16:26	104-51-8	
n-Propylbenzene	140	ug/L	29.9	9.0	100		10/15/21 16:26	103-65-1	
o-Xylene	6340	ug/L	38.3	11.5	100		10/15/21 16:26	95-47-6	
p-Isopropyltoluene	<11.5	ug/L	38.3	11.5	100		10/15/21 16:26	99-87-6	
sec-Butylbenzene	<13.5	ug/L	45.0	13.5	100		10/15/21 16:26	135-98-8	
tert-Butylbenzene	<11.3	ug/L	37.6	11.3	100		10/15/21 16:26	98-06-6	
trans-1,2-Dichloroethene	<15.2	ug/L	50.6	15.2	100		10/15/21 16:26	156-60-5	
trans-1,3-Dichloropropene	<12.6	ug/L	42.0	12.6	100		10/15/21 16:26	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		100		10/15/21 16:26	2199-69-1	D4
4-Bromofluorobenzene (S)	98	%	75-125		100		10/15/21 16:26	460-00-4	
Toluene-d8 (S)	97	%	75-125		100		10/15/21 16:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-5/T66 **Lab ID: 10581711006** Collected: 10/04/21 12:10 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<1.2	ug/L	4.0	1.2	10		10/22/21 22:38	630-20-6	H1
1,1,1-Trichloroethane	<1.8	ug/L	6.2	1.8	10		10/22/21 22:38	71-55-6	H1
1,1,2,2-Tetrachloroethane	<1.1	ug/L	3.8	1.1	10		10/22/21 22:38	79-34-5	H1
1,1,2-Trichloroethane	<1.5	ug/L	5.0	1.5	10		10/22/21 22:38	79-00-5	H1
1,1-Dichloroethane	<2.5	ug/L	8.4	2.5	10		10/22/21 22:38	75-34-3	H1
1,1-Dichloroethene	<2.5	ug/L	8.2	2.5	10		10/22/21 22:38	75-35-4	H1
1,1-Dichloropropene	<2.6	ug/L	8.8	2.6	10		10/22/21 22:38	563-58-6	H1
1,2,3-Trichlorobenzene	<1.6	ug/L	5.3	1.6	10		10/22/21 22:38	87-61-6	H1
1,2,3-Trichloropropane	<1.2	ug/L	4.1	1.2	10		10/22/21 22:38	96-18-4	H1
1,2,4-Trichlorobenzene	<1.4	ug/L	4.6	1.4	10		10/22/21 22:38	120-82-1	H1
1,2,4-Trimethylbenzene	1910	ug/L	79.3	23.8	200		10/15/21 16:45	95-63-6	
1,2-Dibromo-3-chloropropane	<3.0	ug/L	10.1	3.0	10		10/22/21 22:38	96-12-8	H1
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.7	1.7	10		10/22/21 22:38	106-93-4	H1
1,2-Dichlorobenzene	<1.4	ug/L	4.6	1.4	10		10/22/21 22:38	95-50-1	H1
1,2-Dichloroethane	<1.6	ug/L	5.2	1.6	10		10/22/21 22:38	107-06-2	H1
1,2-Dichloropropane	<1.8	ug/L	5.9	1.8	10		10/22/21 22:38	78-87-5	H1
1,3,5-Trimethylbenzene	687	ug/L	64.0	19.2	200		10/15/21 16:45	108-67-8	
1,3-Dichlorobenzene	<1.1	ug/L	3.7	1.1	10		10/22/21 22:38	541-73-1	H1
1,3-Dichloropropane	<1.2	ug/L	4.0	1.2	10		10/22/21 22:38	142-28-9	H1
1,4-Dichlorobenzene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:38	106-46-7	H1
2,2-Dichloropropane	<1.8	ug/L	5.8	1.8	10		10/22/21 22:38	594-20-7	H1
2-Chlorotoluene	<1.3	ug/L	4.2	1.3	10		10/22/21 22:38	95-49-8	H1
4-Chlorotoluene	<1.1	ug/L	3.7	1.1	10		10/22/21 22:38	106-43-4	H1
Benzene	1760	ug/L	79.3	23.8	200		10/15/21 16:45	71-43-2	
Bromobenzene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:38	108-86-1	H1
Bromochloromethane	<3.1	ug/L	10.2	3.1	10		10/22/21 22:38	74-97-5	H1
Bromodichloromethane	<0.96	ug/L	3.2	0.96	10		10/22/21 22:38	75-27-4	H1
Bromoform	<2.1	ug/L	7.0	2.1	10		10/22/21 22:38	75-25-2	H1
Bromomethane	<3.2	ug/L	10.6	3.2	10		10/22/21 22:38	74-83-9	H1
Carbon tetrachloride	<1.8	ug/L	6.1	1.8	10		10/22/21 22:38	56-23-5	H1
Chlorobenzene	<1.1	ug/L	3.6	1.1	10		10/22/21 22:38	108-90-7	H1
Chloroethane	<2.3	ug/L	7.5	2.3	10		10/22/21 22:38	75-00-3	H1
Chloroform	<1.6	ug/L	5.5	1.6	10		10/22/21 22:38	67-66-3	H1
Chloromethane	<1.8	ug/L	6.1	1.8	10		10/22/21 22:38	74-87-3	H1
Dibromochloromethane	<1.3	ug/L	4.2	1.3	10		10/22/21 22:38	124-48-1	H1
Dibromomethane	<1.9	ug/L	6.2	1.9	10		10/22/21 22:38	74-95-3	H1
Dichlorodifluoromethane	<2.6	ug/L	8.6	2.6	10		10/22/21 22:38	75-71-8	H1
Diethyl ether (Ethyl ether)	<2.2	ug/L	7.3	2.2	10		10/22/21 22:38	60-29-7	H1
Ethylbenzene	538	ug/L	45.7	13.7	200		10/15/21 16:45	100-41-4	
Hexachloro-1,3-butadiene	<3.4	ug/L	11.3	3.4	10		10/22/21 22:38	87-68-3	H1
Isopropylbenzene (Cumene)	19.3	ug/L	5.2	1.6	10		10/22/21 22:38	98-82-8	H1
Methyl-tert-butyl ether	<1.6	ug/L	5.4	1.6	10		10/22/21 22:38	1634-04-4	H1
Methylene Chloride	<4.7	ug/L	15.6	4.7	10		10/22/21 22:38	75-09-2	H1
Naphthalene	302	ug/L	3.5	1.0	10		10/22/21 22:38	91-20-3	H1
Styrene	<0.88	ug/L	2.9	0.88	10		10/22/21 22:38	100-42-5	H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: MW-5/T66 **Lab ID: 10581711006** Collected: 10/04/21 12:10 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<2.5	ug/L	8.3	2.5	10		10/22/21 22:38	127-18-4	H1
Toluene	2470	ug/L	75.3	22.6	200		10/15/21 16:45	108-88-3	
Trichloroethene	<0.86	ug/L	2.8	0.86	10		10/22/21 22:38	79-01-6	H1
Trichlorofluoromethane	<3.0	ug/L	10.1	3.0	10		10/22/21 22:38	75-69-4	H1
Vinyl chloride	<0.42	ug/L	1.4	0.42	10		10/22/21 22:38	75-01-4	H1
cis-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	10		10/22/21 22:38	156-59-2	H1
cis-1,3-Dichloropropene	<1.2	ug/L	4.1	1.2	10		10/22/21 22:38	10061-01-5	H1
m&p-Xylene	6890	ug/L	119	35.6	200		10/15/21 16:45	179601-23-1	
n-Butylbenzene	42.2	ug/L	5.4	1.6	10		10/22/21 22:38	104-51-8	H1
n-Propylbenzene	45.1	ug/L	6.0	1.8	10		10/22/21 22:38	103-65-1	H1
o-Xylene	2890	ug/L	76.6	23.0	200		10/15/21 16:45	95-47-6	
p-Isopropyltoluene	5.9	ug/L	5.1	1.5	10		10/22/21 22:38	99-87-6	H1
sec-Butylbenzene	<1.5	ug/L	4.9	1.5	10		10/22/21 22:38	135-98-8	H1
tert-Butylbenzene	<1.7	ug/L	5.6	1.7	10		10/22/21 22:38	98-06-6	H1
trans-1,2-Dichloroethene	<1.9	ug/L	6.2	1.9	10		10/22/21 22:38	156-60-5	H1
trans-1,3-Dichloropropene	<1.3	ug/L	4.4	1.3	10		10/22/21 22:38	10061-02-6	H1
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		10		10/22/21 22:38	2199-69-1	D4
4-Bromofluorobenzene (S)	101	%	75-125		10		10/22/21 22:38	460-00-4	
Toluene-d8 (S)	102	%	75-125		10		10/22/21 22:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: Trip Blank **Lab ID: 10581711007** Collected: 10/04/21 00:00 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
1,1,1,2-Tetrachloroethane	<0.18	ug/L	0.61	0.18	1		10/15/21 11:52	630-20-6	
1,1,1-Trichloroethane	<0.17	ug/L	0.58	0.17	1		10/15/21 11:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.18	ug/L	0.58	0.18	1		10/15/21 11:52	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	0.65	0.20	1		10/15/21 11:52	79-00-5	
1,1-Dichloroethane	<0.14	ug/L	0.47	0.14	1		10/15/21 11:52	75-34-3	
1,1-Dichloroethene	<0.10	ug/L	0.35	0.10	1		10/15/21 11:52	75-35-4	
1,1-Dichloropropene	<0.12	ug/L	0.41	0.12	1		10/15/21 11:52	563-58-6	
1,2,3-Trichlorobenzene	<0.16	ug/L	0.53	0.16	1		10/15/21 11:52	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	3.9	1.2	1		10/15/21 11:52	96-18-4	
1,2,4-Trichlorobenzene	<0.061	ug/L	0.20	0.061	1		10/15/21 11:52	120-82-1	
1,2,4-Trimethylbenzene	<0.12	ug/L	0.40	0.12	1		10/15/21 11:52	95-63-6	
1,2-Dibromo-3-chloropropane	<0.82	ug/L	2.7	0.82	1		10/15/21 11:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.19	ug/L	0.64	0.19	1		10/15/21 11:52	106-93-4	
1,2-Dichlorobenzene	<0.18	ug/L	0.61	0.18	1		10/15/21 11:52	95-50-1	
1,2-Dichloroethane	<0.14	ug/L	0.48	0.14	1		10/15/21 11:52	107-06-2	
1,2-Dichloropropane	<0.24	ug/L	0.80	0.24	1		10/15/21 11:52	78-87-5	
1,3,5-Trimethylbenzene	<0.096	ug/L	0.32	0.096	1		10/15/21 11:52	108-67-8	
1,3-Dichlorobenzene	<0.13	ug/L	0.42	0.13	1		10/15/21 11:52	541-73-1	
1,3-Dichloropropane	<0.15	ug/L	0.49	0.15	1		10/15/21 11:52	142-28-9	
1,4-Dichlorobenzene	<0.15	ug/L	0.51	0.15	1		10/15/21 11:52	106-46-7	
2,2-Dichloropropane	<0.27	ug/L	0.90	0.27	1		10/15/21 11:52	594-20-7	
2-Chlorotoluene	<0.11	ug/L	0.36	0.11	1		10/15/21 11:52	95-49-8	
4-Chlorotoluene	<0.085	ug/L	0.28	0.085	1		10/15/21 11:52	106-43-4	
Benzene	<0.12	ug/L	0.40	0.12	1		10/15/21 11:52	71-43-2	
Bromobenzene	<0.18	ug/L	0.60	0.18	1		10/15/21 11:52	108-86-1	
Bromochloromethane	<0.40	ug/L	1.3	0.40	1		10/15/21 11:52	74-97-5	
Bromodichloromethane	<0.21	ug/L	0.69	0.21	1		10/15/21 11:52	75-27-4	
Bromoform	<0.24	ug/L	0.80	0.24	1		10/15/21 11:52	75-25-2	
Bromomethane	<1.9	ug/L	6.3	1.9	1		10/15/21 11:52	74-83-9	
Carbon tetrachloride	<0.14	ug/L	0.47	0.14	1		10/15/21 11:52	56-23-5	
Chlorobenzene	<0.11	ug/L	0.36	0.11	1		10/15/21 11:52	108-90-7	
Chloroethane	<0.41	ug/L	1.4	0.41	1		10/15/21 11:52	75-00-3	
Chloroform	<0.14	ug/L	0.48	0.14	1		10/15/21 11:52	67-66-3	
Chloromethane	<0.22	ug/L	0.75	0.22	1		10/15/21 11:52	74-87-3	
Dibromochloromethane	<0.17	ug/L	0.56	0.17	1		10/15/21 11:52	124-48-1	
Dibromomethane	<0.31	ug/L	1.0	0.31	1		10/15/21 11:52	74-95-3	
Dichlorodifluoromethane	<0.16	ug/L	0.53	0.16	1		10/15/21 11:52	75-71-8	
Diethyl ether (Ethyl ether)	<0.24	ug/L	0.80	0.24	1		10/15/21 11:52	60-29-7	
Ethylbenzene	<0.069	ug/L	0.23	0.069	1		10/15/21 11:52	100-41-4	
Hexachloro-1,3-butadiene	<0.43	ug/L	1.4	0.43	1		10/15/21 11:52	87-68-3	
Isopropylbenzene (Cumene)	<0.11	ug/L	0.37	0.11	1		10/15/21 11:52	98-82-8	
Methyl-tert-butyl ether	<0.18	ug/L	0.60	0.18	1		10/15/21 11:52	1634-04-4	
Methylene Chloride	<0.83	ug/L	2.8	0.83	1		10/15/21 11:52	75-09-2	
Naphthalene	<0.20	ug/L	0.67	0.20	1		10/15/21 11:52	91-20-3	
Styrene	<0.13	ug/L	0.42	0.13	1		10/15/21 11:52	100-42-5	

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ANALYTICAL RESULTS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Sample: Trip Blank **Lab ID: 10581711007** Collected: 10/04/21 00:00 Received: 10/05/21 15:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Tetrachloroethene	<0.10	ug/L	0.34	0.10	1		10/15/21 11:52	127-18-4	
Toluene	<0.11	ug/L	0.38	0.11	1		10/15/21 11:52	108-88-3	
Trichloroethene	<0.13	ug/L	0.42	0.13	1		10/15/21 11:52	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	0.34	0.10	1		10/15/21 11:52	75-69-4	
Vinyl chloride	<0.063	ug/L	0.21	0.063	1		10/15/21 11:52	75-01-4	
cis-1,2-Dichloroethene	<0.17	ug/L	0.57	0.17	1		10/15/21 11:52	156-59-2	
cis-1,3-Dichloropropene	<0.16	ug/L	0.52	0.16	1		10/15/21 11:52	10061-01-5	
m&p-Xylene	<0.18	ug/L	0.59	0.18	1		10/15/21 11:52	179601-23-1	
n-Butylbenzene	<0.052	ug/L	0.17	0.052	1		10/15/21 11:52	104-51-8	
n-Propylbenzene	<0.090	ug/L	0.30	0.090	1		10/15/21 11:52	103-65-1	
o-Xylene	<0.12	ug/L	0.38	0.12	1		10/15/21 11:52	95-47-6	
p-Isopropyltoluene	<0.12	ug/L	0.38	0.12	1		10/15/21 11:52	99-87-6	
sec-Butylbenzene	<0.14	ug/L	0.45	0.14	1		10/15/21 11:52	135-98-8	
tert-Butylbenzene	<0.11	ug/L	0.38	0.11	1		10/15/21 11:52	98-06-6	
trans-1,2-Dichloroethene	<0.15	ug/L	0.51	0.15	1		10/15/21 11:52	156-60-5	
trans-1,3-Dichloropropene	<0.13	ug/L	0.42	0.13	1		10/15/21 11:52	10061-02-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/15/21 11:52	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		10/15/21 11:52	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		10/15/21 11:52	2037-26-5	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

QC Batch: 777217

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV 465 W

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10581711001, 10581711002, 10581711004, 10581711005, 10581711006, 10581711007

METHOD BLANK: 4139994

Matrix: Water

Associated Lab Samples: 10581711001, 10581711002, 10581711004, 10581711005, 10581711006, 10581711007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	0.61	10/15/21 10:57	
1,1,1-Trichloroethane	ug/L	<0.17	0.58	10/15/21 10:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.18	0.58	10/15/21 10:57	
1,1,2-Trichloroethane	ug/L	<0.20	0.65	10/15/21 10:57	
1,1-Dichloroethane	ug/L	<0.14	0.47	10/15/21 10:57	
1,1-Dichloroethene	ug/L	<0.10	0.35	10/15/21 10:57	
1,1-Dichloropropene	ug/L	<0.12	0.41	10/15/21 10:57	
1,2,3-Trichlorobenzene	ug/L	<0.16	0.53	10/15/21 10:57	
1,2,3-Trichloropropane	ug/L	<1.2	3.9	10/15/21 10:57	
1,2,4-Trichlorobenzene	ug/L	<0.061	0.20	10/15/21 10:57	
1,2,4-Trimethylbenzene	ug/L	<0.12	0.40	10/15/21 10:57	
1,2-Dibromo-3-chloropropane	ug/L	<0.82	2.7	10/15/21 10:57	
1,2-Dibromoethane (EDB)	ug/L	<0.19	0.64	10/15/21 10:57	
1,2-Dichlorobenzene	ug/L	<0.18	0.61	10/15/21 10:57	
1,2-Dichloroethane	ug/L	<0.14	0.48	10/15/21 10:57	
1,2-Dichloropropane	ug/L	<0.24	0.80	10/15/21 10:57	
1,3,5-Trimethylbenzene	ug/L	<0.096	0.32	10/15/21 10:57	
1,3-Dichlorobenzene	ug/L	<0.13	0.42	10/15/21 10:57	
1,3-Dichloropropane	ug/L	<0.15	0.49	10/15/21 10:57	
1,4-Dichlorobenzene	ug/L	<0.15	0.51	10/15/21 10:57	
2,2-Dichloropropane	ug/L	<0.27	0.90	10/15/21 10:57	
2-Chlorotoluene	ug/L	<0.11	0.36	10/15/21 10:57	
4-Chlorotoluene	ug/L	<0.085	0.28	10/15/21 10:57	
Benzene	ug/L	<0.12	0.40	10/15/21 10:57	
Bromobenzene	ug/L	<0.18	0.60	10/15/21 10:57	
Bromochloromethane	ug/L	<0.40	1.3	10/15/21 10:57	
Bromodichloromethane	ug/L	<0.21	0.69	10/15/21 10:57	
Bromoform	ug/L	<0.24	0.80	10/15/21 10:57	
Bromomethane	ug/L	<1.9	6.3	10/15/21 10:57	
Carbon tetrachloride	ug/L	<0.14	0.47	10/15/21 10:57	
Chlorobenzene	ug/L	<0.11	0.36	10/15/21 10:57	
Chloroethane	ug/L	<0.41	1.4	10/15/21 10:57	
Chloroform	ug/L	<0.14	0.48	10/15/21 10:57	
Chloromethane	ug/L	<0.22	0.75	10/15/21 10:57	
cis-1,2-Dichloroethene	ug/L	<0.17	0.57	10/15/21 10:57	
cis-1,3-Dichloropropene	ug/L	<0.16	0.52	10/15/21 10:57	
Dibromochloromethane	ug/L	<0.17	0.56	10/15/21 10:57	
Dibromomethane	ug/L	<0.31	1.0	10/15/21 10:57	
Dichlorodifluoromethane	ug/L	<0.16	0.53	10/15/21 10:57	
Diethyl ether (Ethyl ether)	ug/L	<0.24	0.80	10/15/21 10:57	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68
Pace Project No.: 10581711

METHOD BLANK: 4139994 Matrix: Water
Associated Lab Samples: 10581711001, 10581711002, 10581711004, 10581711005, 10581711006, 10581711007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.069	0.23	10/15/21 10:57	
Hexachloro-1,3-butadiene	ug/L	<0.43	1.4	10/15/21 10:57	
Isopropylbenzene (Cumene)	ug/L	<0.11	0.37	10/15/21 10:57	
m&p-Xylene	ug/L	<0.18	0.59	10/15/21 10:57	
Methyl-tert-butyl ether	ug/L	<0.18	0.60	10/15/21 10:57	
Methylene Chloride	ug/L	<0.83	2.8	10/15/21 10:57	
n-Butylbenzene	ug/L	<0.052	0.17	10/15/21 10:57	
n-Propylbenzene	ug/L	<0.090	0.30	10/15/21 10:57	
Naphthalene	ug/L	<0.20	0.67	10/15/21 10:57	
o-Xylene	ug/L	<0.12	0.38	10/15/21 10:57	
p-Isopropyltoluene	ug/L	<0.12	0.38	10/15/21 10:57	
sec-Butylbenzene	ug/L	<0.14	0.45	10/15/21 10:57	
Styrene	ug/L	<0.13	0.42	10/15/21 10:57	
tert-Butylbenzene	ug/L	<0.11	0.38	10/15/21 10:57	
Tetrachloroethene	ug/L	<0.10	0.34	10/15/21 10:57	
Toluene	ug/L	<0.11	0.38	10/15/21 10:57	
trans-1,2-Dichloroethene	ug/L	<0.15	0.51	10/15/21 10:57	
trans-1,3-Dichloropropene	ug/L	<0.13	0.42	10/15/21 10:57	
Trichloroethene	ug/L	<0.13	0.42	10/15/21 10:57	
Trichlorofluoromethane	ug/L	<0.10	0.34	10/15/21 10:57	
Vinyl chloride	ug/L	<0.063	0.21	10/15/21 10:57	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	10/15/21 10:57	
4-Bromofluorobenzene (S)	%	99	75-125	10/15/21 10:57	
Toluene-d8 (S)	%	98	75-125	10/15/21 10:57	

LABORATORY CONTROL SAMPLE & LCSD: 4139995

Parameter	Units	4139995		4139996		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	19.6	95	98	67-134	3	20
1,1,1-Trichloroethane	ug/L	20	18.6	18.6	93	93	72-129	0	20
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	17.6	88	88	74-125	0	20
1,1,2-Trichloroethane	ug/L	20	19.3	19.4	97	97	75-125	0	20
1,1-Dichloroethane	ug/L	20	17.6	17.9	88	89	72-128	1	20
1,1-Dichloroethene	ug/L	20	19.8	19.6	99	98	67-130	1	20
1,1-Dichloropropene	ug/L	20	19.4	19.4	97	97	65-131	0	20
1,2,3-Trichlorobenzene	ug/L	20	19.5	19.9	97	99	69-130	2	20
1,2,3-Trichloropropane	ug/L	20	17.8	17.9	89	89	75-125	0	20
1,2,4-Trichlorobenzene	ug/L	20	18.4	19.2	92	96	64-132	4	20
1,2,4-Trimethylbenzene	ug/L	20	18.3	18.6	92	93	75-126	2	20
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	44.4	92	89	59-135	4	20
1,2-Dibromoethane (EDB)	ug/L	20	20.0	19.6	100	98	75-125	2	20
1,2-Dichlorobenzene	ug/L	20	17.9	18.2	89	91	74-127	2	20
1,2-Dichloroethane	ug/L	20	18.2	18.3	91	91	74-125	1	20
1,2-Dichloropropane	ug/L	20	18.9	19.3	94	97	75-125	2	20

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

LABORATORY CONTROL SAMPLE & LCSD: 4139995			4139996								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,3,5-Trimethylbenzene	ug/L	20	18.6	18.5	93	93	75-125	0	20		
1,3-Dichlorobenzene	ug/L	20	18.5	19.1	93	95	74-127	3	20		
1,3-Dichloropropane	ug/L	20	19.5	19.5	98	97	75-125	0	20		
1,4-Dichlorobenzene	ug/L	20	18.0	18.5	90	93	73-125	3	20		
2,2-Dichloropropane	ug/L	20	19.8	19.4	99	97	68-129	2	20		
2-Chlorotoluene	ug/L	20	18.0	17.8	90	89	75-125	1	20		
4-Chlorotoluene	ug/L	20	17.9	18.3	90	92	74-125	2	20		
Benzene	ug/L	20	18.8	19.0	94	95	73-125	1	20		
Bromobenzene	ug/L	20	18.3	18.4	92	92	72-125	0	20		
Bromochloromethane	ug/L	20	18.8	19.3	94	96	75-127	2	20		
Bromodichloromethane	ug/L	20	18.4	19.0	92	95	75-125	3	20		
Bromoform	ug/L	20	19.3	19.3	96	97	64-134	0	20		
Bromomethane	ug/L	20	10.0	11.6	50	58	30-150	15	20		
Carbon tetrachloride	ug/L	20	18.1	18.5	91	93	63-135	2	20		
Chlorobenzene	ug/L	20	18.4	18.9	92	95	75-125	3	20		
Chloroethane	ug/L	20	15.9	15.9	79	80	61-142	0	20		
Chloroform	ug/L	20	17.3	17.6	86	88	75-125	2	20		
Chloromethane	ug/L	20	14.5	14.9	72	75	64-129	3	20		
cis-1,2-Dichloroethene	ug/L	20	19.5	20.2	98	101	74-125	3	20		
cis-1,3-Dichloropropene	ug/L	20	19.9	20.0	99	100	75-126	1	20		
Dibromochloromethane	ug/L	20	20.1	20.5	100	103	71-131	2	20		
Dibromomethane	ug/L	20	19.6	19.4	98	97	75-126	1	20		
Dichlorodifluoromethane	ug/L	20	18.4	18.4	92	92	60-135	0	20		
Diethyl ether (Ethyl ether)	ug/L	20	18.2	18.1	91	90	70-128	1	20		
Ethylbenzene	ug/L	20	17.1	17.3	85	87	75-125	1	20		
Hexachloro-1,3-butadiene	ug/L	20	19.4	19.4	97	97	63-134	0	20		
Isopropylbenzene (Cumene)	ug/L	20	19.5	19.4	97	97	75-125	0	20		
m&p-Xylene	ug/L	40	37.9	37.2	95	93	75-125	2	20		
Methyl-tert-butyl ether	ug/L	20	19.5	19.5	97	97	75-125	0	20		
Methylene Chloride	ug/L	20	18.8	18.9	94	95	69-125	0	20		
n-Butylbenzene	ug/L	20	19.0	18.9	95	94	72-128	1	20		
n-Propylbenzene	ug/L	20	17.9	17.8	90	89	75-125	1	20		
Naphthalene	ug/L	20	19.2	19.8	96	99	69-127	3	20		
o-Xylene	ug/L	20	19.8	19.8	99	99	75-125	0	20		
p-Isopropyltoluene	ug/L	20	19.4	19.7	97	98	75-125	1	20		
sec-Butylbenzene	ug/L	20	18.8	18.7	94	94	75-127	1	20		
Styrene	ug/L	20	20.3	20.2	101	101	75-127	1	20		
tert-Butylbenzene	ug/L	20	18.7	18.7	94	94	75-125	0	20		
Tetrachloroethene	ug/L	20	21.4	21.5	107	108	69-131	0	20		
Toluene	ug/L	20	18.7	19.2	94	96	75-125	2	20		
trans-1,2-Dichloroethene	ug/L	20	19.4	20.1	97	101	69-130	3	20		
trans-1,3-Dichloropropene	ug/L	20	19.5	19.8	98	99	74-128	1	20		
Trichloroethene	ug/L	20	19.6	19.6	98	98	75-130	0	20		
Trichlorofluoromethane	ug/L	20	19.9	19.9	99	99	71-133	0	20		
Vinyl chloride	ug/L	20	17.8	17.6	89	88	67-129	1	20		
1,2-Dichlorobenzene-d4 (S)	%				99	100	70-130				
4-Bromofluorobenzene (S)	%				98	99	75-125				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

LABORATORY CONTROL SAMPLE & LCSD:		4139995		4139996							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Toluene-d8 (S)	%				98	98	75-125				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		4147856		4147857								
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10584607001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	<9.2	1000	1000	971	1010	97	101	57-134	4	30	
1,1,1-Trichloroethane	ug/L	<8.7	1000	1000	911	981	91	98	62-136	7	30	
1,1,2,2-Tetrachloroethane	ug/L	<8.8	1000	1000	922	956	92	96	63-127	4	30	
1,1,2-Trichloroethane	ug/L	<9.8	1000	1000	999	1040	100	104	65-128	4	30	
1,1-Dichloroethane	ug/L	<7.0	1000	1000	877	932	88	93	63-128	6	30	
1,1-Dichloroethene	ug/L	<5.2	1000	1000	988	1050	99	105	59-135	6	30	
1,1-Dichloropropene	ug/L	<6.1	1000	1000	954	1030	95	103	64-135	8	30	
1,2,3-Trichlorobenzene	ug/L	<7.9	1000	1000	952	1060	95	106	59-133	11	30	
1,2,3-Trichloropropane	ug/L	<58.5	1000	1000	925	1020	93	102	62-125	9	30	
1,2,4-Trichlorobenzene	ug/L	<3.1	1000	1000	891	980	89	98	54-137	10	30	
1,2,4-Trimethylbenzene	ug/L	7.5J	1000	1000	909	953	90	95	68-126	5	30	
1,2-Dibromo-3-chloropropane	ug/L	<40.8	2500	2500	2300	2460	92	98	55-135	7	30	
1,2-Dibromoethane (EDB)	ug/L	<9.6	1000	1000	1030	1060	103	106	64-125	3	30	
1,2-Dichlorobenzene	ug/L	<9.2	1000	1000	882	921	88	92	65-130	4	30	
1,2-Dichloroethane	ug/L	<7.2	1000	1000	940	984	94	98	58-125	5	30	
1,2-Dichloropropane	ug/L	<12.0	1000	1000	950	1000	95	100	65-125	5	30	
1,3,5-Trimethylbenzene	ug/L	<4.8	1000	1000	891	943	89	94	67-125	6	30	
1,3-Dichlorobenzene	ug/L	<6.4	1000	1000	907	960	91	96	68-131	6	30	
1,3-Dichloropropane	ug/L	<7.4	1000	1000	1000	1070	100	107	65-125	6	30	
1,4-Dichlorobenzene	ug/L	<7.6	1000	1000	885	925	88	92	64-127	4	30	
2,2-Dichloropropane	ug/L	<13.5	1000	1000	903	951	90	95	65-131	5	30	
2-Chlorotoluene	ug/L	<5.4	1000	1000	865	912	87	91	69-125	5	30	
4-Chlorotoluene	ug/L	<4.3	1000	1000	875	919	87	92	61-129	5	30	
Benzene	ug/L	12.4J	1000	1000	929	991	92	98	60-125	6	30	
Bromobenzene	ug/L	<9.0	1000	1000	906	954	91	95	61-125	5	30	
Bromochloromethane	ug/L	<19.9	1000	1000	938	992	94	99	62-127	6	30	
Bromodichloromethane	ug/L	<10.4	1000	1000	916	960	92	96	63-127	5	30	
Bromoform	ug/L	<12.0	1000	1000	1000	1050	100	105	62-134	5	30	
Bromomethane	ug/L	<94.0	1000	1000	369	505	37	50	30-150	31	30	R1
Carbon tetrachloride	ug/L	<7.0	1000	1000	932	976	93	98	63-142	5	30	
Chlorobenzene	ug/L	<5.4	1000	1000	919	969	92	97	65-128	5	30	
Chloroethane	ug/L	<20.4	1000	1000	702	741	70	74	61-142	5	30	
Chloroform	ug/L	<7.2	1000	1000	860	907	86	90	63-125	5	30	
Chloromethane	ug/L	<11.2	1000	1000	680	724	68	72	56-132	6	30	
cis-1,2-Dichloroethene	ug/L	<8.6	1000	1000	947	1000	95	100	63-125	6	30	
cis-1,3-Dichloropropene	ug/L	<7.8	1000	1000	962	1020	96	102	61-126	6	30	
Dibromochloromethane	ug/L	<8.4	1000	1000	1040	1090	104	109	70-131	5	30	
Dibromomethane	ug/L	<15.3	1000	1000	988	1050	99	105	66-126	6	30	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Parameter	Units	4147856		4147857		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10584607001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dichlorodifluoromethane	ug/L	<8.0	1000	1000	861	932	86	93	59-137	8	30		
Diethyl ether (Ethyl ether)	ug/L	<12.0	1000	1000	930	991	93	99	59-128	6	30		
Ethylbenzene	ug/L	<3.4	1000	1000	857	897	86	90	61-125	5	30		
Hexachloro-1,3-butadiene	ug/L	<21.5	1000	1000	875	916	88	92	53-143	5	30		
Isopropylbenzene (Cumene)	ug/L	<5.6	1000	1000	965	1020	97	102	75-128	5	30		
m&p-Xylene	ug/L	<8.9	2000	2000	1860	1980	92	99	62-125	6	30		
Methyl-tert-butyl ether	ug/L	<9.0	1000	1000	1010	1060	101	106	61-125	5	30		
Methylene Chloride	ug/L	<41.4	1000	1000	912	959	91	96	58-125	5	30		
n-Butylbenzene	ug/L	<2.6	1000	1000	891	945	89	95	67-133	6	30		
n-Propylbenzene	ug/L	<4.5	1000	1000	858	908	86	91	67-129	6	30		
Naphthalene	ug/L	<10.0	1000	1000	1000	1100	100	110	54-127	9	30		
o-Xylene	ug/L	<5.8	1000	1000	968	1040	97	104	60-127	7	30		
p-Isopropyltoluene	ug/L	<5.8	1000	1000	936	990	94	99	69-130	6	30		
sec-Butylbenzene	ug/L	<6.8	1000	1000	904	955	90	95	69-132	5	30		
Styrene	ug/L	<6.3	1000	1000	989	1050	99	105	66-132	6	30		
tert-Butylbenzene	ug/L	<5.6	1000	1000	908	976	91	98	68-129	7	30		
Tetrachloroethene	ug/L	<5.0	1000	1000	1040	1120	104	112	66-138	7	30		
Toluene	ug/L	<5.6	1000	1000	915	960	91	96	61-125	5	30		
trans-1,2-Dichloroethene	ug/L	<7.6	1000	1000	954	1010	95	101	60-135	6	30		
trans-1,3-Dichloropropene	ug/L	<6.3	1000	1000	998	1040	100	104	64-128	5	30		
Trichloroethene	ug/L	<6.3	1000	1000	950	1020	95	102	65-137	7	30		
Trichlorofluoromethane	ug/L	<5.1	1000	1000	932	1000	93	100	69-140	7	30		
Vinyl chloride	ug/L	<3.2	1000	1000	791	846	79	85	63-132	7	30		
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130				
4-Bromofluorobenzene (S)	%						100	101	75-125				
Toluene-d8 (S)	%						97	98	75-125				

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

QC Batch:	778862	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV 465 W
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10581711002, 10581711003, 10581711006

METHOD BLANK: 4148068 Matrix: Water

Associated Lab Samples: 10581711002, 10581711003, 10581711006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.40	10/22/21 15:29	
1,1,1-Trichloroethane	ug/L	<0.18	0.62	10/22/21 15:29	
1,1,2,2-Tetrachloroethane	ug/L	<0.11	0.38	10/22/21 15:29	
1,1,2-Trichloroethane	ug/L	<0.15	0.50	10/22/21 15:29	
1,1-Dichloroethane	ug/L	<0.25	0.84	10/22/21 15:29	
1,1-Dichloroethene	ug/L	<0.25	0.82	10/22/21 15:29	
1,1-Dichloropropene	ug/L	<0.26	0.88	10/22/21 15:29	
1,2,3-Trichlorobenzene	ug/L	<0.16	0.53	10/22/21 15:29	
1,2,3-Trichloropropane	ug/L	<0.12	0.41	10/22/21 15:29	
1,2,4-Trichlorobenzene	ug/L	<0.14	0.46	10/22/21 15:29	
1,2,4-Trimethylbenzene	ug/L	<0.092	0.31	10/22/21 15:29	
1,2-Dibromo-3-chloropropane	ug/L	<0.30	1.0	10/22/21 15:29	
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	10/22/21 15:29	
1,2-Dichlorobenzene	ug/L	<0.14	0.46	10/22/21 15:29	
1,2-Dichloroethane	ug/L	<0.16	0.52	10/22/21 15:29	
1,2-Dichloropropane	ug/L	<0.18	0.59	10/22/21 15:29	
1,3,5-Trimethylbenzene	ug/L	<0.13	0.44	10/22/21 15:29	
1,3-Dichlorobenzene	ug/L	<0.11	0.37	10/22/21 15:29	
1,3-Dichloropropane	ug/L	<0.12	0.40	10/22/21 15:29	
1,4-Dichlorobenzene	ug/L	<0.13	0.44	10/22/21 15:29	
2,2-Dichloropropane	ug/L	<0.18	0.58	10/22/21 15:29	
2-Chlorotoluene	ug/L	<0.13	0.42	10/22/21 15:29	
4-Chlorotoluene	ug/L	<0.11	0.37	10/22/21 15:29	
Benzene	ug/L	<0.17	0.58	10/22/21 15:29	
Bromobenzene	ug/L	<0.13	0.44	10/22/21 15:29	
Bromochloromethane	ug/L	<0.31	1.0	10/22/21 15:29	
Bromodichloromethane	ug/L	<0.096	0.32	10/22/21 15:29	
Bromoform	ug/L	<0.21	0.70	10/22/21 15:29	
Bromomethane	ug/L	<0.32	1.1	10/22/21 15:29	
Carbon tetrachloride	ug/L	<0.18	0.61	10/22/21 15:29	
Chlorobenzene	ug/L	<0.11	0.36	10/22/21 15:29	
Chloroethane	ug/L	<0.23	0.75	10/22/21 15:29	MN
Chloroform	ug/L	<0.16	0.55	10/22/21 15:29	
Chloromethane	ug/L	<0.18	0.61	10/22/21 15:29	
cis-1,2-Dichloroethene	ug/L	<0.22	0.73	10/22/21 15:29	
cis-1,3-Dichloropropene	ug/L	<0.12	0.41	10/22/21 15:29	
Dibromochloromethane	ug/L	<0.13	0.42	10/22/21 15:29	
Dibromomethane	ug/L	<0.19	0.62	10/22/21 15:29	
Dichlorodifluoromethane	ug/L	<0.26	0.86	10/22/21 15:29	
Diethyl ether (Ethyl ether)	ug/L	<0.22	0.73	10/22/21 15:29	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

METHOD BLANK: 4148068

Matrix: Water

Associated Lab Samples: 10581711002, 10581711003, 10581711006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.14	0.45	10/22/21 15:29	
Hexachloro-1,3-butadiene	ug/L	<0.34	1.1	10/22/21 15:29	
Isopropylbenzene (Cumene)	ug/L	<0.16	0.52	10/22/21 15:29	
m&p-Xylene	ug/L	<0.30	0.98	10/22/21 15:29	
Methyl-tert-butyl ether	ug/L	<0.16	0.54	10/22/21 15:29	
Methylene Chloride	ug/L	<0.47	1.6	10/22/21 15:29	
n-Butylbenzene	ug/L	<0.16	0.54	10/22/21 15:29	
n-Propylbenzene	ug/L	<0.18	0.60	10/22/21 15:29	
Naphthalene	ug/L	<0.10	0.35	10/22/21 15:29	
o-Xylene	ug/L	<0.11	0.35	10/22/21 15:29	
p-Isopropyltoluene	ug/L	<0.15	0.51	10/22/21 15:29	
sec-Butylbenzene	ug/L	<0.15	0.49	10/22/21 15:29	
Styrene	ug/L	<0.088	0.29	10/22/21 15:29	
tert-Butylbenzene	ug/L	<0.17	0.56	10/22/21 15:29	
Tetrachloroethene	ug/L	<0.25	0.83	10/22/21 15:29	
Toluene	ug/L	<0.14	0.48	10/22/21 15:29	
trans-1,2-Dichloroethene	ug/L	<0.19	0.62	10/22/21 15:29	
trans-1,3-Dichloropropene	ug/L	<0.13	0.44	10/22/21 15:29	
Trichloroethene	ug/L	<0.086	0.28	10/22/21 15:29	
Trichlorofluoromethane	ug/L	<0.30	1.0	10/22/21 15:29	
Vinyl chloride	ug/L	<0.042	0.14	10/22/21 15:29	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	10/22/21 15:29	
4-Bromofluorobenzene (S)	%	98	75-125	10/22/21 15:29	
Toluene-d8 (S)	%	99	75-125	10/22/21 15:29	

LABORATORY CONTROL SAMPLE: 4148069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	67-134	
1,1,1-Trichloroethane	ug/L	20	17.8	89	72-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	74-125	
1,1,2-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1-Dichloroethane	ug/L	20	18.7	94	72-128	
1,1-Dichloroethene	ug/L	20	19.0	95	67-130	
1,1-Dichloropropene	ug/L	20	19.2	96	65-131	
1,2,3-Trichlorobenzene	ug/L	20	20.5	103	69-130	
1,2,3-Trichloropropane	ug/L	20	20.6	103	75-125	
1,2,4-Trichlorobenzene	ug/L	20	21.0	105	64-132	
1,2,4-Trimethylbenzene	ug/L	20	20.1	100	75-126	
1,2-Dibromo-3-chloropropane	ug/L	20	18.1	91	59-135	
1,2-Dibromoethane (EDB)	ug/L	20	20.3	102	75-125	
1,2-Dichlorobenzene	ug/L	20	19.7	99	74-127	
1,2-Dichloroethane	ug/L	20	19.9	100	74-125	
1,2-Dichloropropane	ug/L	20	20.7	104	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

LABORATORY CONTROL SAMPLE: 4148069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/L	20	20.5	102	75-125	
1,3-Dichlorobenzene	ug/L	20	20.1	101	74-127	
1,3-Dichloropropane	ug/L	20	20.1	101	75-125	
1,4-Dichlorobenzene	ug/L	20	19.4	97	73-125	
2,2-Dichloropropane	ug/L	20	17.7	88	68-129	
2-Chlorotoluene	ug/L	20	19.5	97	75-125	
4-Chlorotoluene	ug/L	20	19.6	98	74-125	
Benzene	ug/L	20	19.3	97	73-125	
Bromobenzene	ug/L	20	19.9	99	72-125	
Bromochloromethane	ug/L	20	21.7	109	75-127	
Bromodichloromethane	ug/L	20	18.7	93	75-125	
Bromoform	ug/L	20	16.4	82	64-134	
Bromomethane	ug/L	20	20.1	101	30-150	
Carbon tetrachloride	ug/L	20	17.6	88	63-135	
Chlorobenzene	ug/L	20	19.4	97	75-125	
Chloroethane	ug/L	20	20.9	104	61-142	
Chloroform	ug/L	20	18.1	90	75-125	
Chloromethane	ug/L	20	20.0	100	64-129	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	74-125	
cis-1,3-Dichloropropene	ug/L	20	20.0	100	75-126	
Dibromochloromethane	ug/L	20	18.8	94	71-131	
Dibromomethane	ug/L	20	21.0	105	75-126	
Dichlorodifluoromethane	ug/L	20	22.4	112	60-135	
Diethyl ether (Ethyl ether)	ug/L	20	20.6	103	70-128	
Ethylbenzene	ug/L	20	19.5	98	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.8	99	63-134	
Isopropylbenzene (Cumene)	ug/L	20	19.7	98	75-125	
m&p-Xylene	ug/L	40	40.5	101	75-125	
Methyl-tert-butyl ether	ug/L	20	19.4	97	75-125	
Methylene Chloride	ug/L	20	18.3	92	69-125	
n-Butylbenzene	ug/L	20	18.9	95	72-128	
n-Propylbenzene	ug/L	20	19.7	99	75-125	
Naphthalene	ug/L	20	20.3	101	69-127	
o-Xylene	ug/L	20	20.2	101	75-125	
p-Isopropyltoluene	ug/L	20	20.6	103	75-125	
sec-Butylbenzene	ug/L	20	19.7	98	75-127	
Styrene	ug/L	20	19.9	100	75-127	
tert-Butylbenzene	ug/L	20	20.0	100	75-125	
Tetrachloroethene	ug/L	20	19.2	96	69-131	
Toluene	ug/L	20	18.5	93	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	69-130	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	74-128	
Trichloroethene	ug/L	20	20.3	101	75-130	
Trichlorofluoromethane	ug/L	20	17.2	86	71-133	
Vinyl chloride	ug/L	20	17.9	90	67-129	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	75-125	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

LABORATORY CONTROL SAMPLE: 4148069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4150290 4150291

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10583036007 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.0	13.0	80	65	57-134	20	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	16.0	12.2	80	61	62-136	27	30	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.5	13.3	88	67	63-127	27	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.4	14.0	87	70	65-128	22	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.6	13.6	83	68	63-128	20	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.3	14.2	87	71	59-135	20	30	
1,1-Dichloropropene	ug/L	ND	20	20	17.1	13.7	86	69	64-135	22	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	14.0	11.9	70	59	59-133	17	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.5	13.7	88	69	62-125	24	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	13.8	11.4	69	57	54-137	19	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	15.3	12.0	76	60	68-126	24	30	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.4	11.9	77	59	55-135	26	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.4	13.6	87	68	64-125	25	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.1	11.7	76	58	65-130	26	30	M1
1,2-Dichloroethane	ug/L	ND	20	20	16.8	13.5	84	67	58-125	22	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.3	14.4	92	72	65-125	24	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	15.1	12.0	76	60	67-125	23	30	M1
1,3-Dichlorobenzene	ug/L	ND	20	20	14.9	11.6	74	58	68-131	25	30	M1
1,3-Dichloropropane	ug/L	ND	20	20	17.4	13.6	87	68	65-125	25	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	13.9	11.8	69	59	64-127	16	30	M1
2,2-Dichloropropane	ug/L	ND	20	20	13.6	11.0	68	55	65-131	20	30	M1
2-Chlorotoluene	ug/L	ND	20	20	15.2	12.2	76	61	69-125	22	30	M1
4-Chlorotoluene	ug/L	ND	20	20	14.8	11.6	74	58	61-129	24	30	M1
Benzene	ug/L	ND	20	20	16.8	13.6	83	67	60-125	21	30	
Bromobenzene	ug/L	ND	20	20	16.7	12.9	83	64	61-125	26	30	
Bromochloromethane	ug/L	ND	20	20	18.6	14.5	93	73	62-127	25	30	
Bromodichloromethane	ug/L	ND	20	20	15.7	12.3	78	61	63-127	24	30	M1
Bromoform	ug/L	ND	20	20	13.2	10.3	66	52	62-134	24	30	M1
Bromomethane	ug/L	ND	20	20	14.0	11.4	70	57	30-150	20	30	
Carbon tetrachloride	ug/L	ND	20	20	15.8	13.0	79	65	63-142	20	30	
Chlorobenzene	ug/L	ND	20	20	16.9	13.2	84	66	65-128	25	30	
Chloroethane	ug/L	ND	20	20	25.1	16.2	126	81	61-142	43	30	R1
Chloroform	ug/L	ND	20	20	15.5	12.3	77	62	63-125	22	30	M1
Chloromethane	ug/L	ND	20	20	23.9	16.0	119	80	56-132	40	30	R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.8	14.6	89	73	63-125	20	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.2	12.7	81	63	61-126	25	30	
Dibromochloromethane	ug/L	ND	20	20	15.4	12.0	77	60	70-131	24	30	M1
Dibromomethane	ug/L	ND	20	20	17.7	14.0	89	70	66-126	24	30	

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QUALITY CONTROL DATA

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

Parameter	Units	4150290		4150291		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10583036007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Dichlorodifluoromethane	ug/L	ND	20	20	27.5	16.5	137	82	59-137	50	30	R1	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	17.4	13.5	87	67	59-128	25	30		
Ethylbenzene	ug/L	ND	20	20	16.1	12.8	79	63	61-125	23	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.9	12.2	65	61	53-143	6	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	15.2	12.7	76	63	75-128	18	30	M1	
m&p-Xylene	ug/L	ND	40	40	32.5	26.0	81	65	62-125	22	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	16.3	12.5	82	62	61-125	27	30		
Methylene Chloride	ug/L	ND	20	20	15.9	13.0	80	65	58-125	20	30		
n-Butylbenzene	ug/L	ND	20	20	12.5	10.8	63	54	67-133	15	30	M1	
n-Propylbenzene	ug/L	ND	20	20	14.8	12.1	74	61	67-129	20	30	M1	
Naphthalene	ug/L	ND	20	20	15.4	12.1	77	61	54-127	24	30		
o-Xylene	ug/L	ND	20	20	16.6	13.2	83	66	60-127	23	30		
p-Isopropyltoluene	ug/L	ND	20	20	14.5	12.3	72	62	69-130	16	30	M1	
sec-Butylbenzene	ug/L	ND	20	20	14.6	12.3	73	62	69-132	17	30	M1	
Styrene	ug/L	ND	20	20	16.1	12.5	81	62	66-132	25	30	M1	
tert-Butylbenzene	ug/L	ND	20	20	15.3	12.3	76	61	68-129	22	30	M1	
Tetrachloroethene	ug/L	ND	20	20	15.0	12.5	75	63	66-138	18	30	M1	
Toluene	ug/L	ND	20	20	16.0	12.5	78	61	61-125	24	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.9	13.1	80	65	60-135	19	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.7	12.4	79	62	64-128	24	30	M1	
Trichloroethene	ug/L	ND	20	20	17.4	13.7	87	69	65-137	24	30		
Trichlorofluoromethane	ug/L	ND	20	20	21.4	13.1	107	65	69-140	48	30	M1, R1	
Vinyl chloride	ug/L	ND	20	20	21.9	14.2	110	71	63-132	43	30	R1	
1,2-Dichlorobenzene-d4 (S)	%						101	103	70-130				
4-Bromofluorobenzene (S)	%						99	101	75-125				
Toluene-d8 (S)	%						99	98	75-125				

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QUALIFIERS

Project: 49161494 SRC GW Sampling TK68

Pace Project No.: 10581711

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: 777217

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, bromomethane, chloroethane, and allyl chloride. 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

D4 Sample was diluted due to the presence of high levels of target analytes.

H1 Analysis conducted outside the recognized method holding time.

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

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49161494 SRC GW Sampling TK68
Pace Project No.: 10581711

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10581711001	MW-1/T68	EPA 8260D	777217		
10581711002	MW-2/T68	EPA 8260D	777217		
10581711002	MW-2/T68	EPA 8260D	778862		
10581711003	MW-4/T68	EPA 8260D	778862		
10581711004	MW-5/T68	EPA 8260D	777217		
10581711005	MW-6/T68	EPA 8260D	777217		
10581711006	MW-5/T66	EPA 8260D	777217		
10581711006	MW-5/T66	EPA 8260D	778862		
10581711007	Trip Blank	EPA 8260D	777217		

REPORT OF LABORATORY ANALYSIS

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Barr Engineering Co. Chain of Custody

Ann Arbor Duluth Hibbing Minneapolis
 Bismarck Grand Rapids Jefferson City Salt Lake City

Sample Origination State:
 KS MO UT
 MI ND WI
 MN SD Other: _____

REPORT TO	INVOICE TO
Company: <i>Barr Engineering Co.</i>	Company: <i>Barr</i>
Address: <i>325 S. Lake Ave Duluth, MN</i>	Address: <i>[Arrow]</i>
Name: <i>Lynette Carney</i>	Name: <i>[Arrow]</i>
email: <i>lcarney@barr.com</i>	email: <i>[Arrow]</i>
Copy to: <i>datamgt@barr.com</i>	P.O. <i>-</i>
Project Name: <i>SRL GWSampling TK68</i>	Barr Project No: <i>49161494.01 200 203</i>

Location	Sample Depth			Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix Code	Perform MS/MSD	Total Number of Containers	Analysis Requested		% Solids
	Start	Stop	Unit (m./ft. or in.)						Water	Soil	
1. <i>MW-1 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>10/4/2021</i>	<i>1146</i>	<i>GW</i>	<i>N</i>	<i>3</i>	<i>X</i>		
2. <i>MW-2 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>1155</i>	<i>[Arrow]</i>	<i>N</i>	<i>3</i>	<i>X</i>		
3. <i>MW-4 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>1200</i>	<i>[Arrow]</i>	<i>N</i>	<i>3</i>	<i>X</i>		
4. <i>MW-5 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>1204</i>	<i>[Arrow]</i>	<i>N</i>	<i>3</i>	<i>X</i>		
5. <i>MW-6 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>1207</i>	<i>[Arrow]</i>	<i>N</i>	<i>3</i>	<i>X</i>		
6. <i>MW-5 / T68</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>1210</i>	<i>[Arrow]</i>	<i>N</i>	<i>3</i>	<i>X</i>		
7. <i>Trip Blank</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>[Arrow]</i>	<i>-</i>	<i>-</i>	<i>N</i>	<i>2</i>	<i>X</i>		
8.											
9.											
10.											

COC Number: **57634**
 COC 1 of 1
 Matrix Code: Preservative Code:
 GW = Groundwater A = None
 SW = Surface Water B = HCl
 WW = Waste Water C = HNO₃
 DW = Drinking Water D = H₂SO₄
 S = Soil/Solid E = NaOH
 SD = Sediment F = MeOH
 O = Other G = NaHSO₄
 H = Na₂S₂O₃
 I = Ascorbic Acid
 J = NH₄Cl
 K = Zn Acetate
 O = Other

Preservative Code
 Field Filtered Y/N

001
002
003
004
005
006
007

WO#: 10581711



10581711

BARR USE ONLY
 Sampled by: *KMSJ3*
 Barr Proj. Manager: *LMC*
 Barr DQ Manager: *JET*
 Lab Name: *Pace*
 Lab Location: *Minneapolis, MN*

Relinquished by: *Kant Metz* On Ice? N Date: *10/4/21* Time: *1538*
 Relinquished by: *[Signature]* On Ice? N Date: *10/4/21* Time: *1540*
 Samples Shipped VIA: Courier Federal Express Sampler
 Other: _____
 Lab WO: _____ Temperature on Receipt (°C): *2.9* Custody Seal Intact? Y N None

Received by: *[Signature]* Date: *10/4/21* Time: *1540*
 Received by: *[Signature]* Date: *11/5/21* Time: *1530*
 Air Bill Number: _____
 Requested Due Date:
 Standard Turn Around Time
 Rush _____
 (mm/dd/yyyy)

