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March 10, 2023  
File No. 20.0153134.30

Mr. Jeff A. Ackerman, Hydrogeologist  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5367

Re: Post-Injection ERD Groundwater Monitoring Report  
Former Gardner Manufacturing Property  
263 Kansas Street  
Horicon, Wisconsin  
BRRTS No. 02-14-554523

Dear Mr. Ackerman:

On behalf of Gardner Manufacturing Company, Inc. (Gardner), GZA GeoEnvironmental, Inc. (GZA) is pleased to present the Wisconsin Department of Natural Resources (WDNR) this Post-Injection Enhanced Reductive Dechlorination (ERD) Groundwater Monitoring Report for the groundwater monitoring conducted in August and September 2022. This report includes the results of the full round of groundwater sampling recommended in GZA's March 2, 2022 Post-Injection Groundwater Monitoring and Soil Sampling Documentation Report for 263 Kansas Street in Horicon, Wisconsin ("Site") to assess whether additional emulsified vegetable oil (EVO) injections are warranted in the near future. Note that this report is subject to the Limitations provided in **Attachment 1**.

Trichloroethene (TCE) concentrations in groundwater have been reduced by 99% to 100% within the injection zone and at certain downgradient locations, and the degradation products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride are also on declining trends and, in many cases, are at concentrations less than or approaching NR 140 groundwater standards. The presence of substantial ethene and ethane concentrations within the injection zone confirms the ERD remedial action is continuing through to the non-toxic end products. Total organic carbon (TOC) from the 2019 EVO injections has been depleted by up to 90% from peak concentrations in the injection zone and by approximate 75% at locations downgradient of the 2019 EVO injections. While these results demonstrate a significant reduction in TCE concentrations, additional EVO injections will be needed to replenish TOC and sustain the ERD groundwater remedy in reducing TCE concentration in groundwater beneath the residential neighborhood downgradient of the Site.

#### **POST-INJECTION SUPPLEMENTAL GROUNDWATER SAMPLING**

Post-injection groundwater monitoring is conducted to monitor the progress of the ERD groundwater remediation and groundwater conditions that may indicate adjustments to the remedial program are warranted. A Site-wide, post-injection, groundwater sampling round was conducted from 44 monitoring wells consisting of 31 water table monitoring wells (MW-1 through MW-30 and IW-2), nine deeper-screened monitoring wells (P-5 through P-8, P-10 through P-13, and P-16), and four small-diameter water table monitoring wells (TW-4, TW-6, TW-10, and TW-12). GZA conducted the groundwater sampling from August 29 to September 3, 2022. GZA also monitored soil gas with a 4-gas meter on September 2, 2022.

At most locations, groundwater levels were sufficiently shallow to allow groundwater sample collection using a peristaltic pump attached to dedicated polyethylene tubing. Groundwater was



purged from the wells with the peristaltic pump operating at flow rates of approximately 250 to 400 milliliters per minute (ml/min) prior to sampling. Because the greater groundwater depths in monitoring wells MW-10, P-10, MW-15, and MW-21 did not allow the use of the peristaltic pump, a bailer or Waterra check valve pump were used for purging and sampling the wells. During purging, various combinations of field parameters (pH, dissolved oxygen [DO] and oxidation-reduction potential [ORP]) and water level were measured until field parameters were stable, at which point a sample was collected from the well. Purge water was discharged at the Horicon wastewater treatment plant (WWTP) with prior authorization from the City of Horicon. Groundwater field sampling forms are provided in **Attachment 2**.

After purging, the groundwater samples were collected in laboratory-supplied and pre-preserved vials, placed on ice in a cooler, and submitted to Eurofins/TestAmerica of University Park, Illinois under chain-of-custody procedures for volatile organic compound (VOC) analyses in accordance with United States Environmental Protection Agency (USEPA) Method 8260; dissolved arsenic, chromium, and iron analyses in accordance with USEPA Method 6020; dissolved gas (ethane, ethene, and methane) analyses in accordance with Method RSK-175; sulfate analysis in accordance with Standard Method 300.0; and TOC analysis in accordance with USEPA Method 9060. Duplicate samples and trip blanks were also submitted for quality assurance/quality control (QA/QC) purposes for each sampling round. The groundwater laboratory analytical reports and chain-of-custody forms are provided in **Attachment 3**.

### SOIL VAPOR MONITORING

During the August-September 2022 groundwater sampling round, GZA collected a round of soil gas readings from vapor probes and monitoring wells using a landfill 4-gas meter. To monitor changes in post-injection soil gas, 4-gas meter readings were recorded for methane, hydrogen sulfide, carbon monoxide, and oxygen in eight vapor probes in the injection zone (VP-1 and VP3) and near the downgradient margin of the Site (VP-2 and VP-4 through VP-8); and in six temporary monitoring wells within or immediately downgradient to the injection zone (TW-3, TW-4, TW-8, and TW-12) and upgradient of the injection zone (TW-6 and TW-10). The soil gas measurements were made using a MultiRae Lite Landfill 4-gas meter. Readings were collected over a 4-minute period while purging from a capped monitoring well or vapor probe tubing.

### GROUNDWATER ANALYTICAL RESULTS

Groundwater VOC analytical results for the full monitoring well network are summarized on **Table 1**. Groundwater analytical results for chlorinated VOCs (cVOCs), ERD laboratory (ethane, ethene, methane, arsenic, chromium, sulfate, and TOC), and field parameters (DO, pH, and ORP) are summarized in **Table 2**. Wisconsin Administrative Code (Wis. Adm. Code) NR 140 groundwater quality Enforcement Standards (ESs) and Preventive Action Limits (PALs) are provided for reference on **Tables 1 and 2**. August 2022 TCE groundwater concentrations are shown plotted and contoured on **Figure 1**. Trend plots for VOC concentrations and geochemical parameters are provided for monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-10, MW-21, MW-24, MW-25, MW-26, MW-27, MW-28, and MW-30 in **Attachment 4**.

Based on 36 months of groundwater monitoring after completion of the full-scale EVO injections in early August 2019, GZA provides the following summary of observed changes in groundwater chemistry.

#### Upgradient of the Full-Scale EVO Injections

1. MW-2 is located approximately 40 feet upgradient of the full-scale injection profile. Other than an increase in vinyl chloride concentrations beginning in September 2020, contaminant concentrations upgradient of the injection profiles have remained largely unchanged.

#### Within the Area of Full-Scale EVO Injections

1. MW-3 is located on the downgradient side of the full-scale injection profile. Changes in VOC concentrations and geochemical conditions were evident from the first sampling rounds following the injections, as follows:



- a. TCE concentrations declined by more than 99% from a 290 micrograms per liter ( $\mu\text{g/l}$ ) baseline to a concentration of 1.6  $\mu\text{g/l}$  in August 2021.
  - b. cis-1,2-DCE concentrations increased by nearly an order of magnitude from baseline by January 2020, before decreasing to 6.9  $\mu\text{g/l}$  in August 2022, a concentration less than the baseline concentration and less than the NR 140 PAL.
  - c. Vinyl chloride concentrations increased by more than two orders of magnitude from baseline to 70  $\mu\text{g/l}$  in September 2020, before declining 98% to 1.1  $\mu\text{g/l}$  in August 2022.
  - d. Strongly reducing geochemical conditions were established with significant decreases in sulfate concentrations, nearly two orders of magnitude increase in dissolved iron concentrations, four orders of magnitude increase in dissolved methane concentrations, and two orders of magnitude increase in TOC concentrations. By August 2022, the TOC concentration had declined by more than 60% to 71 milligrams per liter ( $\text{mg/l}$ ) from the peak TOC concentration of 190  $\text{mg/l}$  in October 2019.
2. MW-6 is located within the full-scale injection profiles. Changes in geochemical conditions and VOC concentrations were evident from the first sampling round following the injections, as follows:
- a. The TCE concentration declined by 100% from a 71  $\mu\text{g/l}$  baseline to below detection ( $<0.16 \mu\text{g/l}$ ) beginning in October 2021.
  - b. By January 2020, the cis-1,2-DCE concentration had increased by a factor of more than three from baseline before declining to below the laboratory detection limit ( $<0.41 \mu\text{g/l}$ ) in August 2022.
  - c. By January 2020, the vinyl chloride concentration had increased by a factor of 30 from a 2.0  $\mu\text{g/l}$  baseline before declining to below the laboratory detection limit ( $<0.2 \mu\text{g/l}$ ) in August 2022.
  - d. Elevated ethene and ethane concentrations confirm the ERD reaction is continuing through to the non-toxic end products.
  - e. Geochemically-reducing conditions were established with the more than one order of magnitude decrease in sulfate concentrations, an order of magnitude increase in dissolved iron concentrations, two orders of magnitude increase in dissolved methane concentrations, and an order of magnitude increase in TOC concentrations from a baseline of 4.4  $\text{mg/l}$  to 290  $\text{mg/l}$  in October 2019. By August 2022, the TOC concentration had declined by approximately 93% to 20  $\text{mg/l}$  from the peak TOC concentration of 290  $\text{mg/l}$ .
3. MW-25 is located within the southeastern injection profiles. Changes in geochemical conditions and VOC concentrations were evident from the first sampling round following the injections, as follows:
- a. The TCE concentration had declined by approximately 99.9% from the 20,000 to 36,000  $\mu\text{g/l}$  baseline to 28  $\mu\text{g/l}$  in August 2022.
  - b. cis-1,2-DCE concentrations increased by almost three orders of magnitude from baseline by October 2020, before declining by approximately 92% to 3,100  $\mu\text{g/l}$  in August 2022 from the peak concentration.
  - c. By October 2020, the vinyl chloride concentration had increased by three orders of magnitude from baseline before declining by 90% to 1,000  $\mu\text{g/l}$  in August 2022, from the peak concentration.
  - d. Elevated ethene concentrations confirm the ERD reaction is continuing through to the non-toxic end product.
  - e. Geochemically-reducing conditions were established with three orders of magnitude decrease in sulfate concentrations, three orders of magnitude increase in dissolved iron concentrations, more than three orders of magnitude increase in dissolved methane concentrations, and more than three orders of magnitude



increase in TOC concentrations. Although elevated TOC concentrations remain in the well at 440 mg/l in August 2022, TOC has declined by approximately 90% from the high of 4,600 mg/l in October 2020.

4. MW-27 is located within the full-scale injection profiles. Changes in geochemical conditions and VOC concentrations were evident from the first sampling round following the injections, as follows:
  - a. TCE, cis-1,2-DCE, and vinyl chloride concentrations had declined by 100% from baseline (430 µg/l, 1,300 µg/l, and 110 µg/l for TCE, cis-1,2-DCE, and vinyl chloride, respectively) by August 2022, with concentrations either below the laboratory detection limits or NR 140 PALs.
  - b. Geochemically-reducing conditions were established with two orders of magnitude decrease in sulfate concentrations, more than three orders of magnitude increase in dissolved iron concentrations, more than one order of magnitude increase in dissolved methane concentrations, and more than two orders of magnitude increase in TOC concentrations. Although greater than background TOC concentrations remain in the well at 13 mg/l in August 2022, TOC has declined by approximately 97% from the high of 390 mg/l in January 2020.
5. MW-30 is located within the southeastern full-scale injection profiles. Changes in the geochemical conditions and VOC concentrations are evident from the first round of sampling following the injections, as follows:
  - a. The TCE concentration had declined by approximately 99.8% from a 3,600 µg/l baseline to 6.5 µg/l in November 2021.
  - b. cis-1,2-DCE concentrations increased by more than two orders of magnitude from baseline before declining by approximately 95% from the peak concentration in November 2021.
  - c. By April 2020, vinyl chloride concentrations increased by more than an order of magnitude before declining by approximately 75% from the peak concentration in November 2021.
  - d. Elevated ethene concentrations confirm the ERD reaction is continuing through to the non-toxic end product.
  - e. Geochemically-reducing conditions were established with the elevated dissolved iron, methane, and TOC concentrations, and low sulfate concentrations. Although greater than background TOC concentrations remain in the well at 69 mg/l in August 2022, TOC has declined by more than 90% from the high of 740 mg/l in January 2020.

#### Downgradient of the Full-Scale EVO Injections

Based on past water level measurements, groundwater flow is predominantly toward the east/northeast and the average linear horizontal groundwater flow velocity of the shallow deposits was estimated from less than 1 to up to 3 feet per day (250 to 1,000 feet per year).

1. MW-4 is located approximately 60 feet downgradient of the injections and the effects of reductive dechlorination are just beginning to be evident in the groundwater data from the monitoring well with more than an order of magnitude increase in cis-1,2-DCE and three orders of magnitude increase in vinyl chloride. Elevated ethene concentrations confirm the ERD reaction is continuing through to the non-toxic end product. Although slightly elevated, TOC concentrations remain low in the well at just above background.
2. MW-5 is located approximately 30 feet downgradient of the full-scale injections. Gradual increases in degradation products are evident in the data beginning approximately one year after the 2019 injections. However, the TCE concentration increased to 4,100 µg/l in August 2022, greater than the 670 µg/l baseline in November 2021, but within the range of historical pre-injection TCE concentrations (670 µg/l to 5,700 µg/l). Initial large increases in





TCE are not an unusual phenomenon in EVO injections due to stripping of TCE adsorbed to soil due to changing water characteristics.

3. MW-10 is located approximately 40 feet downgradient of August 2017 pilot test injections and approximately 100 feet downgradient of the 2019 full-scale injections. Changes in the geochemical conditions and VOC concentrations were evident in the data within a year of the 2017 pilot test injections. Changes observed in the data through August 2022, are as follows:
  - a. The TCE concentration declined by approximately 60% from baseline after the 2017 pilot test injections and declined by more than 97% from the 7,800 µg/l baseline concentration to 190 µg/l in August 2022. TCE concentrations for the well remain on a declining trend through August 2022.
  - b. cis-1,2-DCE concentrations increased by approximately one order of magnitude from baseline after the pilot test injections and remain elevated through August 2022, as TCE continues to degrade.
  - c. Vinyl chloride concentrations increased by more than three orders of magnitude after the pilot test injections and remain elevated through August 2022.
  - d. Elevated ethene and ethane concentrations with increasing trends confirm that ERD reaction is continuing through to the non-toxic end products.
  - e. Geochemically reducing conditions were established after the pilot test and remain strongly reducing through August 2022, with the elevated dissolved iron, methane, and TOC concentrations and the low sulfate concentrations. Although greater than background TOC concentrations remained in the well at 6.6 mg/l in August 2022, TOC has declined by 65% from the high of 19 mg/l generally throughout 2020.
4. MW-21 is located approximately 7 feet sidegradient of the August 2017 pilot test injections and approximately 60 feet downgradient of the 2019 full-scale injections. Changes in the geochemical conditions and VOC concentrations are evident in the data following the injections, as follows:
  - a. TCE concentrations declined by approximately 99% from baseline after the 2017 pilot test injections and declined by 99.8% from the 660 µg/l baseline to 1.4 µg/l in August 2022.
  - b. cis-1,2-DCE concentrations increased by more than two orders of magnitude from baseline after the pilot test injections before declining to below baseline and to near the laboratory detection limit and below the NR 140 PAL beginning in October 2020.
  - c. Vinyl chloride concentrations increased by more than four orders of magnitude after the pilot test injections before declining to near baseline concentrations in March 2021.
  - d. Elevated ethene and/or ethane concentrations confirm the ERD reaction is continuing through to the non-toxic end products. Decreasing ethene concentrations and very low degradation product concentrations indicate dissolved and adsorbed TCE is nearly depleted near the well.
  - e. Geochemically-reducing conditions were established after the pilot test and remain through August 2022. Although greater than background TOC concentrations remain in the monitoring well at 8.2 mg/l in August 2022, TOC has declined by more than 97% from the high of 290 mg/l in March 2021.
5. MW-24 is located approximately 40 feet downgradient of the full-scale injection profiles. Changes in geochemical conditions and VOC concentrations were evident from the first quarterly sampling round following injections. Changes in chemical conditions at MW-24 after the full-scale injections include the following:
  - a. TCE concentrations have declined by approximately 98% from the 2,300 µg/l baseline concentration to 45 µg/l in August.



- b. cis-1,2-DCE and vinyl chloride concentrations have both increased by approximately an order of magnitude and remain elevated.
  - c. Elevated and increasing ethene and ethane concentrations confirm the ERD reaction is continuing through to the non-toxic end products.
  - d. Geochemically-reducing conditions were established with the decrease in sulfate concentrations, two to three orders of magnitude increase in dissolved iron concentrations, and three orders of magnitude increase in dissolved methane concentrations.
6. MW-28 is located approximately 40 feet downgradient of the full-scale injection profiles. Changes in geochemical conditions and VOC concentrations were evident from the first quarterly sampling round following injections. Changes in chemical conditions at MW-28 after the full-scale injections include the following:
- a. TCE concentrations have declined approximately 100% from the 170 µg/l baseline concentration to 0.45 µg/l and below the NR 140 PAL in August 2022.
  - b. cis-1,2-DCE and vinyl chloride concentrations have both declined by approximately 99% from the elevated baseline concentrations.
  - c. Geochemically-reducing conditions were established with the decrease in sulfate concentrations, three orders of magnitude increase in dissolved iron concentrations, more than one order of magnitude increase in dissolved methane concentrations, and an approximately order of magnitude increase in TOC concentrations. Although elevated TOC concentrations remain in the well at 14 mg/l in August 2022, TOC has declined by more than 75% from the high of 62 mg/l in January 2020.

#### 4-GAS METER RESULTS

4-Gas meter readings (methane, hydrogen sulfide, carbon monoxide, and oxygen) recorded in two vapor probes (VP-1 and VP3) and four temporary monitoring wells (TW-3, TW-4, TW-8, and TW-12) within or immediately downgradient of the injection zone and in seven vapor probes (VP-2 and VP-4 through VP-8) near the downgradient margin of the Site and two temporary monitoring wells (TW-6 and TW-10) approximately 30 feet upgradient of the injection zone in September 2022, are summarized in **Table 3**. The highest methane, hydrogen sulfide, and carbon monoxide, and lowest oxygen readings measured during the 4-minute period are recorded on the table.

For each round of monitoring, methane near the property boundary was less than 20% the 50,000-part per million (ppm) lower explosive limit (LEL) and was mostly less than 1% (<500 ppm) the LEL. Methane concentrations were highest in vapor probe VP-1 and monitoring well TW-3, each located within the injection zone. Consistent with GZA's experience at many other EVO injection sites, excess methane generation and migration outside of the injection zone do not appear to be a concern.

#### CONCLUSIONS AND RECOMMENDATIONS

Based on 36 months of groundwater monitoring following the 2019 full-scale EVO injections, TCE concentrations in groundwater have been reduced by 99% to 100% within the injection zone and by 97% to 100% in certain monitoring wells (MW-10, MW-21, MW-24, and MW-28) approximately 40 feet downgradient of the injection zone. Degradation products cis-1,2-DCE and vinyl chloride in the injection zone and certain downgradient locations are also on declining trends and, in many cases, are at concentrations less than or approaching NR 140 groundwater standards. At other downgradient locations where ERD is occurring, degradation products remain elevated with the ERD reaction continuing. The presence of substantial ethene and ethane concentrations within and downgradient of the injection zone confirm that the ERD remedy is continuing through to the non-toxic end products.



GZA believes that the 2019 EVO injections are approaching the limit of their effectiveness and that an additional round of EVO injections near the downgradient side of the property is warranted based on the following observed conditions:

1. The observed uneven effectiveness of the ERD remedy at monitoring locations downgradient of the 2019 EVO injection zones;
2. The need to reduce TCE concentrations in groundwater beneath the neighborhood between the Site and Larabee Street to reduce vapor intrusion risk;
3. The average 85% to 90% depletion of TOC from peak concentrations in the injection zone; and
4. The approximate 75% depletion from peak concentrations at downgradient locations.

GZA will prepare a work plan and injection permit for WDNR approval for additional EVO injections to be conducted at the Site in 2023.

Please feel free to contact me via email at [bernard.fenelon@gza.com](mailto:bernard.fenelon@gza.com) or call (262) 424-2045 should you have questions about the Site. We look forward to hearing from you.

Very truly yours,

**GZA GeoEnvironmental, Inc.**

A handwritten signature in blue ink, appearing to read "B. Fenelon".

Bernard G. Fenelon, P.G.  
Senior Consultant  
Hydrogeologist

A handwritten signature in blue ink, appearing to read "J. Osborne".

John C. Osborne, P.G.  
Senior Principal  
Hydrogeologist

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Attachments



## TABLES



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,1-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-1	29-Jun-10	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	--	<2	<2	<2	<2	--	
	30-Aug-10	<2	<5	0.38 J	<2	<2	<2	<2	<2	<2	<2	--	<2	<2	<2	<2	--	
	31-May-12	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	
	25-Jun-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<1	<0.5	<0.5	
	10-Jun-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	19-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	27-Jul-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	16-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	
	15-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	5-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	Dup4 10/5/20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
1-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1		
MW-2	29-Jun-10	<2	<5	<2	<b>4.1</b>	<b>0.85 J</b>	<b>380</b>	<b>35</b>	<2	<2	<2	--	<2	<b>100</b>	<b>24</b>	<b>2.6</b>	--	
	30-Aug-10	<8	<20	<8	<b>3.2 J</b>	<8	<b>330</b>	<b>33</b>	<8	<b>1 J</b>	<8	--	<8	<b>74</b>	<b>39</b>	<b>2.7</b>	--	
	Dup 8/30/10	<8	<20	<8	<b>3.3 J</b>	<8	<b>330</b>	<b>33</b>	<8	<8	<8	--	<8	<b>73</b>	<b>41</b>	<b>2.7 J</b>	--	
	23-Nov-10	<2	<5	<2	<b>5.2</b>	<b>1.3 J</b>	<b>360</b>	<b>54</b>	<2	<2	<2	--	<2	<b>130</b>	<b>33</b>	<b>5.7</b>	--	
	1-Jun-12	<0.5	<5	<2	<0.5	<b>1</b>	<b>410</b>	<b>22</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<b>56</b>	<b>42</b>	<b>2</b>	<0.5	
	25-Jun-13	<0.5	<5	<2	<b>1.1</b>	<0.5	<b>260</b>	9.7	<0.5	<0.5	<0.5	0.52	<0.5	<b>41</b>	<b>32</b>	<b>0.52 HC</b>	<0.5	
	13-Jun-15	<0.5	<1	<1	<b>1.3</b>	<b>0.72 J</b>	<b>330</b>	<b>20</b>	<0.5	<1	<1	<0.5	<1	<b>39</b>	<b>29</b>	<b>1.4</b>	<1	
	19-May-16	<0.5	<1	<1	<1	<1	<b>180</b>	5.5	<0.5	<1	<1	<0.5	<1	<b>14</b>	<b>13</b>	<b>0.4 J</b>	<1	
	27-Jul-17	<0.5	<1	<1	<1	0.63 J	<b>200</b>	7.4	<0.5	<1	<1	<0.5	<1	<b>14</b>	7.1	<b>1.8</b>	<1	
	17-Oct-18	<0.5	<1	<1	<b>0.92 J</b>	<1	<b>83</b>	4.9	<0.5	<1	<1	<0.5	<1	<b>6</b>	5.7	<b>2.4</b>	<1	
	Dup2 10/17/18	<0.5	<1	<1	<b>0.83 J</b>	<1	<b>82</b>	4.6	<0.5	<1	<1	<0.5	<1	<b>5.7</b>	5.6	<b>2.6</b>	<1	
	16-Jul-19	<0.5	<1	<1	<b>1.3</b>	<1	<b>150</b>	8.5	<0.5	<1	<1	<0.5	<1	<b>8.3</b>	3.4	<b>2.2</b>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~40 feet Downgradient of MW-2																
	30-Oct-19	<0.15	<1	<1	<1	<1	<b>130</b>	7.3	<0.5	<1	<1	<0.5	<1	<b>5.6</b>	2.3	<b>2.4</b>	<1	
	13-Jan-20	0.32 J,B	<1	<1	<1	<1	<b>140</b>	7.5	<0.5	<1	<1	<0.5	<1	<b>5.7</b>	2.2	<0.2	<1	
	30-Apr-20	<0.5	<1	<1	<b>1.3</b>	<1	<b>170</b>	10	<0.5	<1	<1	<0.5	<1	<b>5.2</b>	1.8 J	<b>2.2</b>	<1	
	4/30/20 Dup	<0.5	<1	<1	<b>1.3</b>	<1	<b>170</b>	10	<0.5	<1	<1	<0.5	<1	<b>5.2</b>	1.8 J	<b>2.2</b>	<1	
30-Sep-20	<0.5	<1	<1	<b>1.4</b>	0.5 J	<b>180</b>	13	<0.5	<1	<1	<0.5	<1	<b>5.3</b>	3.3	<b>1.1</b>	<1		
16-Mar-21	<0.5	<1	<1	<b>2.3</b>	<1	<b>170</b>	11	<0.5	<1	<1	<0.5	<1	<b>6.2</b>	3.1	<b>7.8</b>	<1		
3/16/21 Dup	<0.5	<1	<1	<b>2.2</b>	0.5 J	<b>160</b>	10	<0.5	<1	<1	<0.5	<1	<b>6.3</b>	3.5	<b>8.1</b>	<1		
29-Aug-22	<0.5	<1	<1	<b>1</b>	<1	<b>59</b>	3.1	<0.5	<1	<1	<0.5	<1	<b>3.8</b>	3	<b>1.3</b>	<1		
IW-2	27-May-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	5.6	<0.5	<1	
	5/27 - 6/3/15	1st Pilot Test Organic Carbon Injections Occurred 10 feet Sidegradient of IW-2																
	1-Oct-15	<0.5	<1	<1	<1	<1	0.61 J	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	2-Aug-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	29-Aug-22	<0.5	<1	<1	<b>0.9 J</b>	<1	2.9	<1	<0.5	<1	<1	<0.5	<1	<0.5	1.2 J	<b>0.36 J</b>	<1	
MW-3	29-Jun-10	<2	<5	<2	<b>3.5</b>	<2	<b>27</b>	3	<2	<2	<b>0.99 J</b>	--	0.25 J	<b>930</b>	<b>67</b>	<2	--	
	30-Aug-10	<20	<50	<10	<20	<20	<b>27</b>	<20	<20	<20	<20	--	<20	<b>710</b>	<b>88</b>	<20	--	
	1-Jun-12	<0.5	<5	<2	<0.5	<0.5	<b>25</b>	1.5	<0.5	<0.5	<b>0.84</b>	<0.5	<0.5	<b>570</b>	<b>190</b>	<0.5	<0.5	
	25-Jun-13	<0.5	<5	<2	<b>4.1</b>	<0.5	<b>25</b>	1.2	<0.5	<0.5	<b>0.91</b>	1.4	<0.5	<b>580</b>	<b>110</b>	<0.5	<0.5	
	26-May-15	<0.5	<1	<1	<b>2.7</b>	<1	<b>20</b>	1.5	<0.5	<1	<b>0.74 J</b>	<0.5	<1	<b>420</b>	<b>120</b>	<0.5	<1	
5/27 - 6/3/15	1st Pilot Test Organic Carbon Injections Occurred 90 feet Upgradient of MW-3																	





**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-3 (Cont.)	30-Jun-15	<1	<2	<2	<b>2.8</b>	<2	<b>20</b>	1.5 J	<1	<2	<2	<1	<2	<b>450</b>	<b>86</b>	<1	<2	
	30-Jul-15	<0.5	<1	<1	<b>3.2</b>	<1	<b>22</b>	1.5	<0.5	<1	<b>0.87 J</b>	<0.5	<1	<b>550</b>	<b>100</b>	<0.5	<1	
	28-Aug-15	<0.5	<1	<1	<b>3.2</b>	<1	<b>19</b>	1.3	<0.5	<1	<b>0.83 J</b>	<0.5	<1	<b>450</b>	<b>95</b>	<0.5	<1	
	1-Oct-15	<0.5	<1	<1	<b>3.8</b>	<1	<b>21</b>	1.4	<0.5	<1	<b>0.7 J</b>	<0.5	<1	<b>490</b>	<b>100</b>	<0.5	<1	
	19-May-16	<0.5	<1	<1	<b>2.9</b>	<1	<b>21</b>	1.2	<0.5	<1	<b>0.91 J</b>	<0.5	<1	<b>410</b>	<b>86</b>	<0.5	<1	
	28-Jul-17	<0.5	<1	<1	<b>1.3</b>	<1	<b>20</b>	0.89 J	<0.5	<1	<b>0.74 J</b>	<0.5	<1	<b>390</b>	<b>41</b>	<0.5	<1	
	Dup2 7/28/17	<0.5	<1	<1	<b>1.2</b>	<1	<b>19</b>	1	<0.5	<1	<b>0.69 J</b>	<0.5	<1	<b>360</b>	<b>39</b>	<0.5	<1	
	17-Oct-18	0.18 J	<1	<1	<b>1.1</b>	<1	<b>16</b>	1.6	0.19 J	<1	<b>1.2</b>	0.16 J	<1	<b>300</b>	<b>53</b>	<1	<1	
	15-Jul-19	<0.5	<1	<1	<1	<1	<b>25</b>	0.52 J	<0.5	<1	<b>0.95 J</b>	<0.5	<1	<b>290</b>	<b>26</b>	<1	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred Just Upgradient of MW-3																
	30-Oct-19	<0.5	<1	<1	<1	0.59 J	<b>210</b>	3.1	<0.5	<1	<1	<0.5	<1	<b>25</b>	<b>28</b>	<b>12</b>	<1	
	13-Jan-20	0.25 J,B	<1	<1	<1	<b>0.89 J</b>	<b>220</b>	1.9	<0.5	<1	<1	<0.5	<1	<b>7.3</b>	<b>10</b>	<b>14</b>	<1	
	Dup 1/13/20	0.2 J,B	<1	<1	<1	<b>0.9 J</b>	<b>240</b>	2.2	<0.5	<1	<1	<0.5	<1	<b>8.0</b>	<b>11</b>	<b>15</b>	<1	
	30-Apr-20	<0.5	<1	<1	<1	0.69 J	<b>190</b>	<1	<0.5	<1	<1	<0.5	<1	<b>3.8</b>	<b>6.2</b>	<b>21</b>	<1	
	30-Sep-20	<0.5	<1	<1	<1	<1	<b>60</b>	1.3	<0.5	<1	<1	<0.5	<1	<b>3.3</b>	<b>1.2 J</b>	<b>70</b>	<1	
	16-Mar-21	<0.5	<1	<1	<1	<1	<b>8.1</b>	<1	<0.5	<1	<1	<0.5	<1	<b>4.6</b>	<2	<b>9.5</b>	<1	
	3-Nov-21	No Sample Collected - Insufficient Water in Well																
	29-Aug-22	<0.5	<1	<1	<1	<1	6.9	<1	<0.5	<1	<1	<0.5	<1	<b>1.6</b>	<2	<b>1.1</b>	<1	
MW-4 (15' to 25' bg)	29-Jun-10	0.4 J	<5	<2	<2	<b>1.4 J</b>	<b>120</b>	1.6 J	<2	<2	<2	--	<2	<b>7,100</b>	<2	<b>0.21 J</b>	--	
	30-Aug-10	<200	<500	<200	<200	<200	<b>160 J</b>	<200	<200	<200	<200	--	<200	<b>5,500</b>	<200	<200	--	
	23-Nov-10	<b>0.8 J</b>	<5	<2	<2	<b>2.9</b>	<b>340 J</b>	3.1	<2	<2	<2	--	<2	<b>8,900</b>	<2	<b>0.43</b>	--	
	31-May-12	<0.5	<5	<2	<0.5	<b>1.4</b>	<b>160</b>	6.5	<0.5	<0.5	<0.5	<0.5	<5	<b>5,700</b>	<1	<0.5	<0.5	
	25-Jun-13	<5	<50	<20	<5	<5	<b>100</b>	6.4	<5	<5	<5	15 BHC	<5	<b>3,700</b>	<10	<5	<5	
	27-May-15	<2.5	<5	<5	<5	<5	<b>140</b>	13	<2.5	<5	<5	<2.5	<5	<b>4,600</b>	<5	<2.5	<5	
	30-Jul-15	<5	<10	<10	<10	<10	<b>180</b>	15	<5	<10	<10	<5	<10	<b>7,500</b>	<10	<5	<10	
	1-Oct-15	<b>2.7</b>	<5	<5	<5	<b>3.4 J</b>	<b>270</b>	<b>34</b>	<2.5	<5	<5	<2.5	<5	<b>8,600</b>	<5	<2.5	<5	
	19-May-16	<5	<10	<10	<10	<10	<b>89</b>	7.1 J	<5	<10	<10	<5	<10	<b>4,100</b>	<10	<5	<10	
	27-Jul-17	<5	<10	<10	<10	<10	<b>96</b>	<10	<5	<10	<10	<5	<10	<b>3,100</b>	<10	<5	<10	
	Dup1 7/27/17	<5	<10	<10	<10	<10	<b>96</b>	<10	<5	<10	<10	<5	<10	<b>3,000</b>	<10	<5	<10	
	19-Sep-17	<5	<10	<10	<10	<10	<b>120</b>	6.4 J	<5	<10	<10	<5	<10	<b>4,100</b>	<10	<5	<10	
	5-Dec-17	<5	<10	<10	<10	<10	<b>150</b>	8 J	<5	<10	<10	<5	<10	<b>4,000</b>	<10	<5	<10	
	Dup 12/5/17	<5	<10	<10	<10	<10	<b>140</b>	7 J	<5	<10	<10	<5	<10	<b>3,700</b>	<10	<5	<10	
	20-Feb-18	<2.5	<5	<5	<5	<5	<b>140</b>	7.4	<2.5	<5	<5	<2.5	<5	<b>4,500</b>	<5	<2.5	<5	
	Dup 2/20/18	<2.5	<5	<5	<5	<5	<b>140</b>	7.7 F2	<2.5	<5	<5	<2.5	<5	<b>5,000</b>	<5	<2.5	<5	
	23-Apr-18	<5	<10	<10	<10	<10	<b>150</b>	16	<5	<10	<10	<5	<10	<b>3,900</b>	<10	<10	<10	
	2-Jul-18	<5	<10	<10	<10	<10	<b>110</b>	9.4 J	<5	<10	<10	<5	<10	<b>3,600</b>	<10	<10	<10	
15-Oct-18	<b>5.9</b>	<10	<10	<10	<10	<b>180</b>	17	<5	<10	<10	1.8 J	<10	<b>3,600</b>	<10	<10	<10		
16-Jul-19	<5	<10	<10	<10	<10	<b>110</b>	<10	<5	<10	<10	<5	<10	<b>3,300</b>	<10	<10	<10		
7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~60 feet Upgradient of MW-4																	
28-Oct-19	<2.5	<5	<5	<5	<5	<b>52</b>	4.1 J	<2.5	<5	<5	<2.5	<5	<b>1,300</b>	<10	<5	<5		
13-Jan-20	<5	<10	<10	<10	<10	<b>80</b>	<10	<5	<10	<10	<5	<10	<b>2,700</b>	<20	<10	<10		
30-Apr-20	<2.5	<5	<5	<5	<5	<b>82</b>	<5	<2.5	<5	<5	<2.5	<5	<b>2,100</b>	<10	<5	<5		



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	Vc	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-4 (Cont.)	30-Sep-20	<5	<10	<10	<10	<10	<u>120</u>	8.2 J	<5	<10	<10	<5	<10	<u>2,800</u>	<20	<u>11</u>	<10	
	16-Mar-21	<2.5	<5	<5	<5	<5	<u>320</u>	21	<2.5	<5	<5	<2.5	<5	<u>4,200</u>	<10	<u>300</u>	<5	
	3-Nov-21	<2.5	<5	<5	<5	<5	<u>270</u>	13	<2.5	<5	<5	<2.5	<5	<u>4,400</u>	<10	<u>84</u>	<5	
	30-Aug-22	<5	<10	<10	<10	<10	<u>1,600</u>	30	<5	<10	<10	<5	<10	<u>3,100</u>	<20	<u>1,000</u>	<10	
MW-5	29-Jun-10	<u>0.58</u> J	<5	<2	<2	<u>1.3</u> J	<u>220</u>	1.9 J	0.7 J	<2	<u>6.7</u>	--	<2	<u>1,100</u>	<2	<u>2.6</u>	--	
	8/30/10 <sup>(Note 7)</sup>	<50	<130	<50	<50	<50	<u>280</u>	<50	<50	<50	<u>14</u> J	--	<50	<u>2,000</u>	<50	<u>6.5</u> J	--	
	31-May-12	<u>0.61</u>	<5	<2	<0.5	<u>4.7</u>	<u>94</u>	3.2	<0.5	<0.5	<u>13</u>	<0.5	<0.5	<u>2,300</u>	<1	<u>15</u>	<0.5	
	25-Jun-13	<5	<50	<20	<5	<5	<u>230</u>	<5	<5	<5	<u>13</u> D	7.5 B HC	<5	<u>2,200</u>	<10	<5	<5	
	27-May-15	<u>1.1</u> J	<5	<5	<5	<u>7.4</u>	<u>130</u>	5.4	<2.5	<5	<u>12</u>	<2.5	<5	<u>2,300</u>	<5	<u>19</u>	<5	
	30-Jul-15	<2.5	<5	<5	<5	<u>9.3</u>	<u>170</u>	7.2	<2.5	<5	<u>13</u>	<2.5	<5	<u>4,000</u>	<5	<u>23</u>	<5	
	1-Oct-15	<u>1.6</u> J	<5	<5	<5	<u>21</u>	<u>190</u>	13	<2.5	<5	<u>12</u>	<2.5	<5	<u>4,700</u>	<5	<u>63</u>	<5	
	20-May-16	<5	<10	<10	<10	<10	<u>310</u>	<10	<5	<10	<u>23</u>	<5	<10	<u>5,200</u>	<10	<u>8</u>	<10	
	Dup3 5/20/16	<5	<10	<10	<10	<10	<u>310</u>	<10	<5	<10	<u>18</u>	<5	<10	<u>5,700</u>	<10	<u>8.9</u>	<10	
	31-Jul-17	<1	<2	<2	<2	<2	<u>29</u>	<2	<1	<2	<u>6.3</u>	<1	<2	<u>700</u>	<2	<2	<1	
	16-Oct-18	<2.5	<5	<5	<5	<u>5.9</u>	<u>150</u>	4.5 J	<2.5	<5	<u>6.9</u>	<2.5	<5	<u>1,200</u>	<5	<u>26</u>	<5	
	17-Jul-19	<0.5	<1	<1	<1	<u>0.7</u> J	<u>54</u>	1.1	<0.5	<1	<u>6.2</u>	<0.5	<1	<u>670</u>	<2	<u>1.7</u>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~80 feet Upgradient of MW-5																
	29-Oct-19	<0.5	<1	<1	<1	0.68 J	<u>63</u>	1	<0.5	<1	<u>3.3</u>	<0.5	<1	<u>400</u>	<2	<u>5.8</u>	<1	
	14-Jan-20	<0.5	<1	<1	<1	<1	<u>23</u>	<1	<0.5	<1	<0.5	<0.5	<1	<u>340</u>	<2	<1	<1	
	5-May-20	<0.5	<1	<1	<1	<1	<u>17</u>	<1	<0.5	<1	<u>4</u>	<0.5	<1	<u>290</u>	<2	<u>0.79</u> J	<1	
	30-Sep-20	<0.5	<1	<1	<1	<u>2.1</u>	<u>250</u>	3.6	<0.5	<1	<u>5.6</u>	<0.5	<1	<u>400</u>	<2	<u>35</u>	<1	
	16-Mar-21	<0.5	<1	<1	<1	<u>1.9</u>	<u>290</u>	4	<0.5	<1	<u>4.1</u>	<0.5	<1	<u>420</u>	<2	<u>45</u>	<1	
	3-Nov-21	<1	<2	<2	<2	<u>8.2</u>	<u>820</u>	13	<1	<2	<u>8.2</u>	<1	<2	<u>1,500</u>	<4	<u>130</u>	<2	
	Dup 11/3/21	<u>0.71</u> J	<2	<2	<2	<u>8.7</u>	<u>800</u>	13	<1	<2	<u>10</u>	<1	<2	<u>1,400</u>	<4	<u>83</u>	<2	
31-Aug-22	<2.5	<5	<5	<5	<u>6.1</u>	<u>610</u>	9.6	<2.5	<5	<u>11</u>	<2.5	<5	<u>4,100</u>	<10	<u>31</u>	<5		
Dup2 8/31/22	<2.5	<5	<5	<5	<u>7.1</u>	<u>650</u>	10	<2.5	<5	<u>12</u>	<2.5	<5	<u>4,100</u>	<10	<u>32</u>	<5		
P-5	29-Jun-10	<u>0.84</u> J	5.4 J	<8	<8	<u>10</u>	<u>2,200</u>	95	<8	<8	<8	--	<8	<u>15</u> J	<8	<u>77</u>	--	
	8/30/10 <sup>(Note 7)</sup>	<20	12 J	<20	<20	<u>9.6</u> J	<u>1,100</u>	86	<20	<20	<20	--	<20	<u>4.9</u> J	<20	<u>86</u>	--	
	31-May-12	<u>0.83</u>	<5	<2	<0.5	<u>12</u>	<u>1,000</u>	96	<0.5	<0.5	<0.5	<0.5	<0.5	<u>9.8</u>	<1	<u>74</u>	<0.5	
	Dup2 5/31/12	<u>0.92</u>	<5	<2	<0.5	<u>13</u>	<u>1,100</u>	93	<0.5	<0.5	<0.5	<0.5	<0.5	<u>9.8</u>	<1	<u>72</u>	<0.5	
	25-Jun-13	<u>0.61</u>	<5	<2	<0.5	<u>11</u>	<u>870</u>	95	<0.5	<0.5	<0.5	0.98 B HC	<0.5	<u>33</u>	<1	<u>65</u> HC	<0.5	
	13-Jun-15	0.32 J	9.3	<1	<1	<u>5.7</u>	<u>440</u>	85	<0.5	<1	<1	<0.5	<1	<u>60</u>	<1	<u>49</u>	<1	
	20-May-16	<0.5	5	<1	<1	<u>5.1</u>	<u>520</u>	<u>100</u>	<0.5	<1	<1	<0.5	<1	<u>54</u>	<1	<u>71</u>	<1	
	31-Jul-17	<u>6</u>	8.9	<2	<2	<u>3.1</u>	<u>610</u>	<u>120</u>	<1	<2	<2	<1	<2	<u>63</u>	<2	<u>47</u>	0.89 J	
	16-Oct-18	0.35 J	5	<2	<2	<u>4.4</u>	<u>900</u>	<u>150</u>	<1	<2	<2	<1	<2	<u>50</u>	<2	<u>150</u>	<2	
	17-Jul-19	0.33 J	4.4	<3	<1	<u>3.6</u>	<u>680</u>	<u>140</u>	<0.5	<1	<1	<0.5	<1	<u>53</u>	<2	<u>93</u>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~80 feet Upgradient of P-5																
	29-Oct-19	0.4 J	3.8	<2	<2	<u>3.1</u>	<u>700</u>	<u>130</u>	<1	<2	<1	0.42 J	<2	<u>52</u>	<4	<u>81</u>	<2	
	14-Jan-20	0.3 J	2.1	<1	<1	<1	<u>680</u>	<u>140</u>	<0.5	<1	<0.5	<0.5	<1	<u>57</u>	<2	<u>73</u>	<1	
	30-Sep-20	<1	2.2	<2	<2	<u>3.1</u>	<u>630</u>	<u>130</u>	<1	<2	<2	<1	<2	<u>69</u>	<4	<u>42</u>	<2	
16-Mar-21	<1	1.7 J	<2	<2	<u>3.6</u>	<u>800</u>	<u>130</u>	<1	<2	<2	<1	<2	<u>53</u>	<4	<u>40</u>	<2		
31-Aug-22	0.34 J	5.4	<1	<1	<u>4.2</u>	<u>890</u>	<u>120</u>	<1	<1	<1	<0.5	<1	<u>66</u>	<2	<u>32</u>	<1		
Dup1 8/31/22	0.3 J	5.2	<1	<1	<u>3.8</u>	<u>1,000</u>	<u>110</u>	<0.5	<1	<1	<0.5	<1	<u>65</u>	<2	<u>32</u>	<1		



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	Vc	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-6	29-Jun-10	<4	<10	<4	<4	<4	<b>47</b>	<4	<4	<4	<4	--	<4	<b>300</b>	<4	<b>1.7</b>	--	
	30-Aug-10	<4	<10	<4	<4	<4	<b>26</b>	<4	<4	<4	<4	--	<4	<b>190</b>	<4	<b>2.2</b> J	--	
	23-Nov-10	<8	<20	<8	<8	<8	<b>58</b>	<8	<8	<8	<8	--	<8	<b>280</b>	<8	<b>3.9</b> J	--	
	31-May-12	<0.5	<5	<2	<0.5	<0.5	<b>24</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>51</b>	<1	<b>1.3</b>	<0.5	
	Dup1 5/31/12	<0.5	<5	<2	<0.5	<0.5	<b>24</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>52</b>	<1	<b>1.1</b>	<0.5	
	25-Jun-13	<0.5	<5	<2	<0.5	<0.5	<b>13</b>	<0.5	<0.5	<0.5	<0.5	1.1 <sub>B HC</sub>	<0.5	<b>63</b>	<1	<0.5	<0.5	
	13-Jun-15	<0.5	<1	<1	<1	<1	<b>22</b>	<1	<0.5	<1	<1	<0.5	<1	<b>52</b>	<1	<b>0.98</b>	<1	
	20-May-16	<0.5	<1	<1	<1	<1	<b>27</b>	<1	<0.5	<1	<1	<0.5	<1	<b>78</b>	<1	<b>0.88</b>	<1	
	31-Jul-17	<0.5	<1	<1	<1	<1	<b>29</b>	<1	<0.5	<1	<1	<0.5	<1	<b>94</b>	<1	<b>1.1</b>	<1	
	16-Oct-18	<0.5	<1	<1	<1	<1	<b>40</b>	0.49 J	<0.5	<1	<1	<0.5	<1	<b>56</b>	<1	<b>3.9</b>	<1	
	Dup1 10/16/18	<0.5	<1	<1	<1	<1	<b>36</b>	0.4 J	<0.5	<1	<1	<0.5	<1	<b>50</b>	<1	<b>3.3</b>	<1	
	17-Jul-19	<0.5	<1	<1	<1	<1	<b>52</b>	1.2	<0.5	<1	<1	<0.5	<1	<b>71</b>	<2	<b>2</b>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at MW-6																
	30-Oct-19	0.22 J	<1	<1	<1	<1	<b>98</b>	1.4	<0.5	<1	<1	0.18 J	<1	<b>4.7</b>	<2	<b>49</b>	<1	
	15-Jan-20	0.18 J	<1	<1	<1	<1	<b>180</b>	2.6	<0.5	<1	<1	0.33 J	<1	<b>0.69</b>	<2	<b>60</b>	<1	
	4-May-20	<0.5	<1	<1	<1	<1	<b>13</b>	1.1	<0.5	<1	<1	0.26 J	<1	0.23 J	<2	<b>10</b>	<1	
	1-Oct-20	<0.5	<1	<1	<1	<1	1.7	0.66 J	<0.5	<1	<1	<0.5	<1	<0.5	<2	<b>0.86</b> J	<1	
	12-Mar-21	<0.5	<1	<1	<1	<1	1.4	1.2	<0.5	<1	<1	0.3 J	<1	<0.5	<2	<b>3.4</b>	<1	
	3-Nov-21	<0.5	<1	<1	<1	<1	0.7 J	0.39 J	<0.5	<1	<1	0.3 J	<1	<0.5	<2	<b>1</b>	<1	
	29-Aug-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	0.39 J	<1	<0.5	<2	<1	<1	
P-6 (31' to 36' bg)	29-Jun-10	<b>1.6</b> J	<25	<10	<10	<10	<b>710</b>	<b>120</b>	<10	<10	<10	--	<10	<b>11</b>	<10	<b>290</b>	--	
	30-Aug-10	<b>2.1</b> J	<40	<16	<16	<16	<b>560</b>	<b>79</b>	<16	<16	<16	--	<16	<b>61</b>	<16	<b>460</b>	--	
	23-Nov-10	<40	<100	<40	<40	<40	<b>790</b>	<b>110</b>	<40	<40	<40	--	<40	<b>48</b>	<40	<b>1,100</b>	--	
	31-May-12	<b>4.9</b>	<5	<2	<b>0.65</b>	<b>1.9</b>	<b>910</b>	<b>68</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<b>3.3</b>	<1	<b>1,600</b>	<0.5	
	25-Jun-13	<b>5.2</b>	<50	<20	<5	<5	<b>940</b>	<b>77</b>	<5	<5	<5	16 <sub>B HC</sub>	<5	<5	<10	<b>870</b> <sub>HC</sub>	<5	
	13-Jun-15	<b>2.4</b>	<1	<1	<b>0.97</b> J	<b>1.2</b>	<b>410</b>	15	<0.5	<1	<1	<0.5	<1	<b>3.1</b>	<1	<b>410</b>	<1	
	Dup3 6/13/15	<b>2.5</b>	<1	<1	<b>0.84</b> J	<b>1.3</b>	<b>420</b>	15	<0.5	<1	<1	<0.5	<1	<b>3.4</b>	<1	<b>420</b>	<1	
	20-May-16	<b>4.4</b>	0.59 J	<1	<b>3.5</b>	<b>1.8</b>	<b>720</b>	<b>21</b>	<0.5	<1	<1	<0.5	<1	<b>13</b>	<1	<b>820</b>	<1	
	31-Jul-17	<b>2.4</b>	<1	<1	<b>1.9</b>	<b>1.1</b>	<b>240</b>	8.7	<0.5	<1	<1	<0.5	<1	<b>4</b>	<1	<b>200</b>	<1	
	16-Oct-18	<b>2.9</b>	1.6	<1	<b>1.9</b>	<b>1.2</b>	<b>370</b>	11	<0.5	<1	<1	0.15 J	<1	<b>8.4</b>	<1	<b>200</b>	<1	
	17-Jul-19	<b>2.3</b>	<1	<1	<b>1.7</b>	<b>1.0</b>	<b>300</b>	11	<0.5	<1	<1	<0.5	<1	<b>7.2</b>	<2	<b>94</b>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at P-6																
	29-Oct-19	<b>2.3</b>	0.66 J	<1	<b>1.3</b>	<b>1.1</b>	<b>340</b>	11	<0.5	<1	<1	0.16 J	<1	<b>1.6</b>	<2	<b>180</b>	<1	
	15-Jan-20	<b>2.5</b>	<1	<1	<1	<1	<b>220</b>	9.5	<0.5	<1	<1	<0.5	<1	<b>1.6</b>	<2	<b>180</b>	<1	
4-May-20	<b>0.98</b>	<1	<1	<1	<1	<b>100</b>	3	<0.5	<1	<1	<0.5	<1	<b>1.4</b>	<2	<b>120</b>	<1		
1-Oct-20	<b>1.3</b>	<1	<1	<1	<1	<b>180</b>	4.3	<0.5	<1	<1	<0.5	<1	<b>1.1</b>	<2	<b>280</b>	<1		
12-Mar-21	<b>1.6</b>	<1	<1	<b>1.1</b>	<b>0.72</b> J	<b>240</b>	6.7	<0.5	<1	<1	<0.5	<1	<b>1.5</b>	<2	<b>160</b>	<1		
29-Aug-22	<b>0.79</b>	<1	<1	<b>2.3</b>	<1	<b>140</b>	2.1	<0.5	<1	<1	<0.5	<1	<b>1.1</b>	<2	<b>92</b>	<1		
MW-7	1-Jun-12	<0.5	<5	<2	<0.5	<b>0.72</b>	<b>12</b>	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<b>71</b>	<1	<0.5	<0.5	
	25-Jun-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.53 <sub>B HC</sub>	<0.5	<b>2.2</b>	<1	<0.5	<0.5	
	10-Jun-15	<0.5	<1	<1	<1	<1	<b>9.4</b>	<1	<0.5	<1	<1	<0.5	<1	<b>25</b>	<1	<0.5	<1	
	20-May-16	<0.5	<1	<1	<1	<1	3.4	<1	<1	<1	<1	<0.5	<1	<b>13</b>	<1	<0.5	<1	
	28-Jul-17	<0.5	<1	<1	<1	<1	5.9	<1	<0.5	<1	<1	<0.5	<1	<b>17</b>	<1	<0.5	<1	
	17-Oct-18	<0.5	<1	<1	<1	<1	4.3	<1	<0.5	<1	<1	<0.5	<1	<b>9.3</b>	<1	<1	<1	
17-Jul-19	<0.5	<1	<1	<1	<1	2.7	<1	<0.5	<1	<1	<0.5	<1	<b>8.3</b>	<2	<1	<1		



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000
MW-7 (Cont.)	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~80 Feet Upgradient of MW-7															
	30-Oct-19	<0.5	<1	<1	<1	<1	3.7	<1	<0.5	<1	<1	<0.5	<1	<u>8.1</u>	<2	<1	<1
	Dup1 10/30/19	<0.5	<1	<1	<1	<1	3.3	<1	<0.5	<1	<1	<0.5	<1	<u>7.7</u>	<2	<1	<1
	13-Jan-20	0.23 J,B	<1	<1	<1	<1	0.6 J	<1	<0.5	<1	<1	<0.5	<1	<u>2.6</u>	<2	<1	<1
	4-May-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>2.1</u>	<2	<1	<1
	1-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1.6</u>	<2	<1	<1
	16-Mar-21	<0.5	<1	<1	<1	<1	1.3	<1	<0.5	<1	<1	<0.5	<1	<u>3.6</u>	<2	<1	<1
	2-Sep-22	<0.5	<1	<1	<1	<1	2.8	<1	<0.5	<1	<1	<0.5	<1	<u>7.5</u>	<2	<1	0.31 J
P-7	23-Nov-10	<40	<100	<40	<40	<40	<u>1,900</u>	<u>84</u>	<40	<40	<40	--	<40	<u>6.4</u> J	<40	<u>220</u>	--
	1-Jun-12	<u>1.9</u>	<5	<2	<0.5	<u>6.8</u>	<u>1,300</u>	<u>53</u>	<0.5	<0.5	<0.5	<0.5	<0.5	<u>1.8</u>	<1	<u>200</u>	<0.5
	25-Jun-13	<5	<50	<20	<5	<u>9.4</u> D	<u>1,800</u>	<u>92</u>	<5	<5	<5	5.7 B HC	<5	<5	<10	<u>220</u> HC	<5
	10-Jun-15	<u>0.81</u>	<1	<1	<1	<u>1.6</u>	<u>210</u>	7.9	<0.5	<1	<1	<0.5	<1	<0.5	<1	<u>19</u>	<1
	20-May-16	0.46 J	1.4	<1	<1	0.54 J	<u>70</u>	2.2	<0.5	<1	<1	<0.5	<1	0.27 J	<1	<u>6.2</u>	<1
	28-Jul-17	0.48 J	<1	<1	<1	0.53 J	<u>42</u>	1.3	<0.5	<1	<1	<0.5	<1	0.42 J	<1	<u>2.5</u>	<1
	17-Oct-18	<u>0.54</u>	5.1	<1	<1	<1	<u>57</u>	1.2	<0.5	<1	<1	<0.5	<1	0.37 J	<1	<u>9.2</u>	<1
	18-Jul-19	0.24 J	<1	<1	<1	<1	<u>43</u>	0.78 J	<0.5	<1	<1	<0.5	<1	<u>35</u>	<2	<1	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~80 Feet Upgradient of P-7															
	30-Oct-19	0.27 J	<1	<1	<1	0.52 J	<u>56</u>	0.8 J	<0.5	<1	<1	<0.5	<1	<1	<2	<u>1.3</u>	<1
	13-Jan-20	0.37 J,B	<1	<1	<1	<1	<u>43</u>	0.81 J	<0.5	<1	<1	<0.5	<1	<1	<2	<u>0.53</u> J	<1
	1-Oct-20	<0.5	<1	<1	<1	<u>0.84</u> J	<u>77</u>	1.3	<0.5	<1	<1	<0.5	<1	<2	<u>3.1</u>	<1	
	16-Mar-21	0.15 J	<1	<1	<1	<1	<u>60</u>	1	<0.5	<1	<1	<0.5	<1	<2	<u>0.9</u> J	<1	
2-Sep-22	<0.5	8.6	<1	<1	0.57 J	<u>130</u>	3.6	<0.5	<1	<1	<0.5	<1	<2	<u>47</u>	<1		
MW-8	23-Nov-10	<20	<50	<20	<20	<20	<u>42</u>	<20	<20	<20	<20	--	<20	<u>420</u>	<20	<20	--
	30-May-12	<0.5	<5	<2	<0.5	<0.5	<u>32</u>	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u>170</u>	<1	<0.5	<0.5
	26-Jun-13	<0.5	<5	<2	<0.5	<0.5	<u>61</u>	3.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u>49</u>	<1	<0.5	<0.5
	9-Jun-15	<0.5	<1	<1	<1	<1	<u>38</u>	1.7	<0.5	<1	<1	<0.5	<1	<u>33</u>	<1	<u>0.89</u>	<1
	Dup1 6/9/15	<0.5	<1	<1	<1	<1	<u>42</u>	2	<0.5	<1	<1	<0.5	<1	<u>37</u>	<1	<u>1</u>	<1
	19-May-16	<0.5	<1	<1	<1	<1	<u>28</u>	1.5	<0.5	<1	<1	<0.5	<1	<u>26</u>	<1	<0.5	<1
	1-Aug-17	<0.5	<1	<1	<1	<1	<u>34</u>	1.7	<0.5	<1	<1	<0.5	<1	<u>58</u>	<1	<0.5	<1
	17-Oct-18	<0.5	<1	<1	<1	<1	<u>29</u>	1.5	<0.5	<1	<1	<0.5	<1	<u>38</u>	<1	<1	<1
	Dup3 10/17/18	<0.5	<1	<1	<1	<1	<u>30</u>	1.6	<0.5	<1	<1	<0.5	<1	<u>39</u>	<1	<1	<1
	15-Jul-19	<0.5	<1	<1	<1	<1	<u>32</u>	1.7	<0.5	<1	<1	<0.5	<1	<u>42</u>	<2	<1	<1
	Dup1 7/15/19	<0.5	<1	<1	<1	<1	<u>34</u>	1.8	<0.5	<1	<1	<0.5	<1	<u>44</u>	<2	<1	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~410 Feet Upgradient of MW-8															
	6-Oct-20	<0.5	<1	<1	<1	<1	<u>30</u>	1.6	<0.5	1.6	<1	<0.5	<1	<1	<2	<1	<1
3-Sep-22	<0.5	<1	<1	<1	<1	<u>32</u>	1.7	<0.5	<1	<1	<0.5	<1	<1	<2	<1	<1	
P-8	23-Nov-10	<20	<50	<20	<20	<20	<u>460</u>	19 J	<20	<20	<20	--	<20	<u>340</u>	<20	<u>69</u>	--
	30-May-12	<0.5	<5	<2	<u>19</u>	1.5	<u>360</u>	<u>85</u>	<0.5	<0.5	<0.5	<0.5	<0.5	<u>580</u>	<1	<u>13</u>	<0.5
	26-Jun-13	<5	<50	<20	<u>49</u>	<u>7.7</u>	<u>490</u>	<u>170</u>	<5	<5	<5	5.5 B HC	<5	<u>2,300</u>	<10	<u>27</u> HC	<5
	9-Jun-15	<0.5	<1	<1	<1	<1	<u>67</u>	4.5	<0.5	<1	<1	<0.5	<1	<u>370</u>	<1	<u>73</u>	<1
	19-May-16	<0.5	<1	<1	<1	<1	<u>66</u>	4.2	<0.5	<1	<1	<0.5	<1	<u>150</u>	<1	<u>7.9</u>	<1
	Dup2 5/19/16	<0.5	<1	<1	<1	<1	<u>61</u>	4.1	<0.5	<1	<1	<0.5	<1	<u>150</u>	<1	<u>8.6</u>	<1
	1-Aug-17	<2.5	<5	<5	<5	<u>2.2</u> J	<u>180</u>	13	<2.5	<5	<5	<2.5	<5	<u>1,600</u>	<5	<u>15</u>	<5
17-Oct-18	<2.5	<5	<5	<5	<u>2.4</u> J	<u>160</u>	13	<2.5	<5	<5	<2.5	<5	<u>1,900</u>	<5	<u>17</u>	<5	



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	Vc	Xylenes
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000
P-8 (Cont.)	15-Jul-19	0.2 J	<1	<1	<1	<b>2.9</b>	<b>310</b>	<b>20</b>	<0.5	<1	<1	<0.5	<1	<b>850</b>	<2	<b>17</b>	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~410 Feet Upgradient of P-8															
	6-Oct-20	<0.5	<1	<1	<2	<b>3.3</b>	<b>250</b>	<b>21</b>	<1	<2	<2	<1	<2	<b>610</b>	<4	<b>6.0</b>	<2
	3-Sep-22	0.16 J	<1	<1	<1	<b>3.5</b>	<b>230</b>	<b>29</b>	<0.5	<1	<1	<0.5	<1	<b>660</b>	<2	<b>19</b>	<1
MW-9	2-Jul-12	<0.5	<5	<2	<0.5	<0.5	<b>8.6</b>	<0.5	<0.5	<0.5	<0.5	--	<0.5	<b>12</b>	<1	<0.5	--
	26-Jun-13	<0.5	<5	<2	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	1.2 B HC	<0.5	<b>6.5</b>	<1	<0.5	<0.5
	9-Jun-15	<0.5	<1	<1	<1	<1	3	<1	<0.5	<1	<1	<0.5	<1	<b>13</b>	<1	<0.5	<1
	18-May-16	<0.5	<1	<1	<1	<1	3.3	<1	<0.5	<1	<1	<0.5	<1	<b>10</b>	<1	<0.5	<1
	Dup1 5/18/16	<0.5	<1	<1	<1	<1	3.2	<1	<0.5	<1	<1	<0.5	<1	<b>10</b>	<1	<0.5	<1
	27-Jul-17	<0.5	<1	<1	<1	<1	1.1	<1	<0.5	<1	<1	<0.5	<1	<b>8.8</b>	<1	<0.5	<1
	16-Oct-18	<0.5	<1	<1	<1	<1	0.51 J	<1	<0.5	<1	<1	<0.5	<1	<b>4.8</b>	<1	<1	<1
	15-Jul-19	<0.5	<1	<1	<1	<1	3.1	<1	<0.5	<1	<1	<0.5	<1	<b>12</b>	<2	<1	<1
	7-Oct-20	<0.5	<1	<1	<1	<1	0.71 J	<1	<0.5	<1	<1	<0.5	<1	<b>9.2</b>	<2	<1	<1
	1-Sep-22	<0.5	<1	<1	<1	<1	9	<1	<0.5	<1	<1	<0.5	<1	<b>6.9</b>	<2	<1	<1
Dup4 9/1/22	<2.5	<5	<5	<5	<5	<b>9.8</b>	<5	<2.5	<5	<5	<2.5	<5	<b>7.7</b>	<10	<5	<5	
MW-10	3-Jul-12	<100	<1,000	<400	<100	<100	<100	<100	<100	<100	<100	--	<100	<b>7,000</b>	<200	<100	--
	Dup 7/3/12	<100	<1,000	<400	<100	<100	<100	<100	<100	<100	<100	--	<100	<b>7,000</b>	<200	<100	--
	1-Jul-13	<5	<50	<20	<b>6.2</b>	<5	<b>87</b>	17	<5	<5	<5	<5	<5	<b>7,600</b>	<10	<5	<5
	13-Jun-15	<b>2.7</b>	<5	<5	<b>4.8 J</b>	<5	<b>240</b>	<b>26</b>	3.6	<5	<5	<2.5	<5	<b>7,400</b>	9.5	<2.5	<5
	19-May-16	<2.5	<5	<5	<b>7.4</b>	<b>4.6 J</b>	<b>450</b>	<b>40</b>	<2.5	<5	<b>2.8 J</b>	<2.5	<5	<b>8,600</b>	<b>12</b>	<b>1.6 J</b>	<5
	31-Jul-17	<5	<10	<10	<b>12</b>	<b>5.7 J</b>	<b>650</b>	<b>64</b>	<5	<10	<10	<5	<10	<b>7,800</b>	11	<5	<10
	8/21/17 - 8/24/17	2nd Pilot Test Organic Carbon Injections Occurred 40 feet Upgradient of MW-10															
	19-Sep-17	<5	<10	<10	<b>11</b>	<b>5.6 J</b>	<b>620</b>	<b>61</b>	<5	<10	<10	<5	<10	<b>8,000</b>	<10	<5	<10
	5-Dec-17	<10	<20	<20	<b>12 J</b>	<20	<b>600</b>	<b>59</b>	<10	<20	<20	<10	<20	<b>6,300</b>	<20	<10	<20
	20-Feb-18	<2.5	<5	<5	<b>11</b>	<b>6.4</b>	<b>750</b>	<b>79</b>	<2.5	<5	<5	<2.5	<5	<b>7,100</b>	<b>15</b>	<b>3.2</b>	<5
	23-Apr-18	<10	<20	<20	<20	<20	<b>720</b>	<b>58</b>	<10	<20	<20	<10	<20	<b>6,200</b>	<20	<20	<20
	2-Jul-18	<10	<20	<20	<20	<20	<b>2,900</b>	<b>93</b>	<10	<20	<20	<10	<20	<b>8,800</b>	<20	<20	<20
	15-Oct-18	<10	<20	<20	<b>9.7 J</b>	<20	<b>2,800</b>	<b>77</b>	<10	<20	<20	<10	<20	<b>5,200</b>	<20	<b>810</b>	<20
	18-Jul-19	<5	<10	<10	<10	<b>21</b>	<b>7,300</b>	<b>44</b>	<5	<10	<10	<5	<10	<b>3,000</b>	<20	<b>3,400</b>	<10
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~100 Feet Upgradient of MW-10															
	28-Oct-19	<5	<10	<10	<10	<b>10</b>	<b>4,800</b>	<b>36</b>	<5	<10	<10	<5	<10	<b>1,600</b>	<20	<b>6,600</b>	<10
	14-Jan-20	<5	<10	<10	<10	<b>6.3 J</b>	<b>3,600</b>	<b>31</b>	<5	<10	<10	<5	<10	<b>820</b>	<20	<b>4,800</b>	<10
4-May-20	<10	<20	<20	<20	<20	<b>2,100</b>	<b>24</b>	<10	<20	<20	<10	<20	<b>410</b>	<40	<b>5,600</b>	<20	
2-Oct-20	<2.5	<5	<5	<b>3.2 J</b>	<b>3.7 J</b>	<b>3,000</b>	<b>65</b>	<2.5	<5	<5	<2.5	<5	<b>340</b>	<10	<b>5,600</b>	<5	
11-Mar-21	<2.5	<5	<5	<b>2.4 J</b>	<b>6.7 J</b>	<b>4,900</b>	<b>94</b>	<2.5	<5	<5	<2.5	<5	<b>500</b>	<10	<b>2,200</b>	<5	
3-Nov-21	<2.5	<5	<5	<5	<b>6.4</b>	<b>5,100</b>	<b>83</b>	<2.5	<5	<5	<2.5	<5	<b>300</b>	<10	<b>4,900</b>	<5	
31-Aug-22	<2.5	<5	<5	<5	<b>4.5 J</b>	<b>3,600</b>	<b>42</b>	<2.5	<5	<5	<2.5	<5	<b>190</b>	<10	<b>3,800</b>	<5	
P-10	3-Jul-12	<5	<50	<20	<b>82</b>	<5	<b>150</b>	<b>33</b>	<5	<5	<5	--	<5	<b>26</b>	<1	<0.5	--
	1-Jul-13	<0.5	<5	<2	<b>47</b>	<b>0.78</b>	<b>230</b>	<b>68</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<b>2.2</b>	<1	<b>1.5</b>	<0.5
	13-Jun-15	<b>0.76 J</b>	<2	<2	<2	<b>7.6</b>	<b>2,900</b>	<b>21</b>	1.1	<2	<2	<1	<2	<b>58</b>	2	<b>32</b>	<2
	2-Aug-17	<0.5	<1	<1	<b>30</b>	<b>1.7</b>	<b>370</b>	18	<0.5	<1	<1	<0.5	<1	<b>6.4</b>	<1	<b>35</b>	<1
	8/21/17 - 8/24/17	2nd Pilot Test Organic Carbon Injections Occurred 40 feet Upgradient of P-10															
19-Sep-17	<0.5	<1	<1	<b>29</b>	0.55 J	<b>120</b>	11	<0.5	<1	<1	<0.5	<1	<b>3.3</b>	<1	<b>13</b>	<1	
5-Dec-17	<0.5	<1	<1	<b>37</b>	<b>1.2</b>	<b>180</b> F1	14	<0.5	<1	<1	<0.5	<1	<b>50</b>	<1	<b>14</b>	<1	





**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
P-10 (Cont.)	20-Feb-18	<0.5	<1	<1	<u>31</u>	<u>2</u>	<u>280</u>	10	<0.5	<1	<1	0.78	<1	<u>24</u>	<1	<u>22</u>	<1	
	23-Apr-18	<0.5	<1	<1	<u>31</u>	0.5 J	<u>110</u>	9.6	<0.5	<1	<1	<0.5	<1	<u>1.3</u>	<1	<u>11</u>	<1	
	2-Jul-18	<0.5	<1	<1	<u>31</u>	<1	<u>91</u>	11	<0.5	<1	<1	<0.5	<1	<u>1.7</u>	<1	<u>7.7</u>	<1	
	16-Oct-18	<0.5	<1	<1	<1	<1	<u>81</u>	5.6	<0.5	<1	<1	<0.5	<1	<u>0.99</u>	<1	<u>12</u>	<1	
	23-Jul-19	<0.5	<1	<1	<u>42</u>	0.45 J	<u>110</u>	7.3	<0.5	<1	<1	<0.5	<1	<u>0.55</u>	<2	<u>32</u>	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~100 Feet Upgradient of P-10																
	28-Oct-19	<0.5	<1	<1	<u>32</u>	0.47 J	<u>130</u>	6.3	<0.5	<1	<1	<0.5	<1	<u>18</u>	<2	<u>14</u>	<1	
	14-Jan-20	<0.5	<1	<1	<u>46</u>	<1	<u>130</u>	8	<0.5	<1	<1	<0.5	<1	<u>11</u>	<2	<u>9.8</u>	<1	
	2-Oct-20	<0.5	<1	<1	<u>36</u>	<1	<u>95</u>	4.2	<0.5	<1	<1	<0.5	<1	<u>5</u>	<2	<u>22</u>	<1	
	11-Mar-21	<0.5	<1	<1	<u>41</u>	<u>1.2</u>	<u>270</u>	8.5	<0.5	<1	<1	<0.5	<1	<u>1.9</u>	<2	<u>160</u>	<1	
31-Aug-22	<0.5	<1	<1	<u>33</u>	<1	<u>20</u>	<1	<0.5	<1	<1	<0.5	<1	0.21 J	<2	<u>33</u>	<1		
MW-11	2-Jul-12	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<u>7.4</u>	<1	<0.5	--	
	26-Jun-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1 B HC	<0.5	<u>2.2</u>	<1	<0.5	<0.5	
	Dup1 6/26/13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.82 B HC	<0.5	<u>2.6</u>	<1	<0.5	<0.5	
	10-Jun-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>12</u>	<1	<0.5	<1	
	18-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>6.2</u>	<1	<0.5	<1	
	27-Jul-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>5.8</u>	<1	<0.5	<1	
	16-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1.6</u>	<1	<1	<1	
	22-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>4.8</u>	<2	<1	<1	
	5-Oct-20	<0.5	<1	<1	<1	<1	1.2	<1	<0.5	<1	<1	<0.5	<1	<u>9</u>	<2	<1	<1	
2-Sep-22	<0.5	<1	<1	<1	<1	0.97 J	<1	<0.5	<1	<1	<0.5	<1	<u>12</u>	<2	<1	<1		
P-11	3-Jul-12	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<u>1.1</u>	<1	<0.5	--	
	1-Jul-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u>0.53</u>	<1	<0.5	<0.5	
	10-Jun-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	18-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	27-Jul-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	16-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	
	22-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	5-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
2-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.39 J	<2	<1	<1		
MW-12	2-Jul-12	<100	<1,000	<400	<100	<100	<u>160</u>	<100	<100	<100	<100	--	<100	<u>3,000</u>	<200	<100	--	
	26-Jun-13	<u>0.72</u>	6.8	<2	<u>12</u>	<u>11</u>	<u>320</u>	18	<0.5	<0.5	<0.5	1.4 B HC	<0.5	<u>3,700</u>	<1	<u>43</u> HC	<0.5	
	9-Jun-15	<u>1.2</u>	<2	<2	<u>20</u>	<u>14</u>	<u>320</u>	<u>47</u>	<1	<2	<2	<1	<2	<u>3,600</u>	<2	<u>30</u>	<2	
	19-May-16	<5	<10	<10	<u>15</u>	<u>12</u>	<u>290</u>	<u>54</u>	<5	<10	<10	<5	<10	<u>3,200</u>	<10	<u>26</u>	<10	
	1-Aug-17	<5	<10	<10	<u>9</u> J	<u>7.8</u> J	<u>290</u>	<u>30</u>	<5	<10	<10	<5	<10	<u>3,300</u>	<10	<u>14</u>	<10	
	Dup3 8/1/17	<5	<10	<10	<u>8.7</u> J	<u>8.3</u> J	<u>310</u>	<u>32</u>	<5	<10	<10	<5	<10	<u>3,300</u>	<10	<u>15</u>	<10	
	18-Oct-18	<2.5	<5	<5	<u>6.1</u>	<u>6.6</u>	<u>210</u>	<u>20</u>	<2.5	<5	<5	<2.5	<5	<u>3,100</u>	<5	<u>22</u>	<5	
	23-Jul-19	<2.5	2.7 J	<5	<u>7.7</u>	<u>7.6</u>	<u>340</u>	<u>36</u>	<2.5	<5	<5	<2.5	<5	<u>1,900</u>	<10	<u>34</u>	<5	
	6-Oct-20	<5	<10	<10	<10	<u>6.1</u> J	<u>350</u>	<u>29</u>	<5	<10	<10	<5	<5	<u>2,900</u>	<20	<u>24</u>	<10	
3-Sep-22	<2.5	<5	<5	<u>5.9</u>	<u>9.1</u>	<u>420</u>	<u>37</u>	<2.5	<5	<5	<2.5	<5	<u>2,800</u>	<10	<u>28</u>	1.9 J		



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000
P-12	9-Jun-15	<0.5	<1	<1	<u>8.8</u>	<u>1.8</u>	<u>160</u>	5.6	<0.5	<1	<1	<0.5	<1	<u>300</u>	<1	<u>51</u>	<1
	Dup2 6/9/15	<0.5	<1	<1	<u>9</u>	<u>1.6</u>	<u>170</u>	6	<0.5	<1	<1	<0.5	<1	<u>310</u>	<1	<u>52</u>	<1
	19-May-16	0.4 J	<1	<1	<u>13</u>	<u>3</u>	<u>520</u>	14	<0.5	<1	<1	<0.5	<1	<u>320</u>	<1	<u>47</u>	<1
	1-Aug-17	<1	<2	<2	<u>12</u>	<u>3.7</u>	<u>560</u>	<u>24</u>	<1	<2	<2	<1	<2	<u>370</u>	<2	<u>37</u>	<2
	18-Oct-18	0.31 J	<1	<1	<u>10</u>	<u>3.1</u>	<u>620</u>	<u>25</u>	<0.5	<1	<1	<0.5	<1	<u>260</u>	<1	<u>48</u>	<1
	23-Jul-19	0.35 J	<2	<2	<u>7.7</u>	<u>3.0</u>	<u>660</u>	<u>26</u>	<1	<2	<2	<1	<2	<u>210</u>	<4	<u>41</u>	<2
	6-Oct-20	<0.5	<1	<1	<u>3.6</u>	<u>1.4</u>	<u>260</u>	9.8	<0.5	<1	<1	<0.5	<1	<u>51</u>	<2	<u>24</u>	<1
3-Sep-22	0.27 J	<1	<1	<u>8.3</u>	<u>3.1</u>	<u>600</u>	<u>31</u>	<0.5	<1	<1	<0.5	<1	<u>80</u>	<2	<u>41</u>	<1	
MW-13	2-Jul-12	<0.5	<5	<2	<0.5	<0.5	<u>19</u>	0.93	<0.5	<0.5	<0.5	--	<0.5	<u>3.3</u>	<1	<0.5	--
	26-Jun-13	<0.5	10	<2	<0.5	<0.5	<u>47</u>	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<u>5.9</u>	<1	<u>12</u> HC	<0.5
	9-Jun-15	<0.5	5.8	<1	<1	<1	<u>50</u>	3	<0.5	<1	<1	<0.5	<1	<u>8.7</u>	<1	<u>5.6</u>	<1
	18-May-16	<0.5	<1	<1	<1	<1	<u>8.9</u>	0.58 J	<0.5	<1	<1	<0.5	<1	<u>2.6</u>	<1	<u>0.47</u> J	<1
	28-Jul-17	<0.5	<1	<1	<1	<1	5.5	0.67 J	<0.5	<1	<1	<0.5	<1	<u>4.7</u>	<1	<0.5	<1
	18-Oct-18	<0.5	<1	<1	<1	<1	0.46 J	<1	<0.5	<1	<1	<0.5	<1	<u>1.7</u>	<1	<1	<1
	23-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1
	6-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1.2</u>	<2	<1	<1
2-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
P-13	2-Jul-12	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<1	<0.5	--
	26-Jun-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3 B HC	<0.5	<0.5	<1	<0.5	<0.5
	Dup2 6/26/13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3 B HC	<0.5	<0.5	<1	<0.5	<0.5
	9-Jun-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1
	18-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1
	28-Jul-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1
	18-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1
	23-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1
	6-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1
2-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
MW-14	1-Jul-13	<0.5	<5	<2	<0.5	<0.5	<u>22</u>	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<u>99</u>	<1	<u>0.9</u>	<0.5
	13-Jun-15	<0.5	<1	<1	<1	0.5 J	<u>51</u>	2.1	<0.5	<1	<1	<0.5	<1	<u>180</u>	<1	<0.5	<1
	18-May-16	<0.5	<1	<1	<u>1.2</u>	<u>0.74</u> J	<u>110</u>	8.4	<0.5	<1	<1	<0.5	<1	<u>170</u>	<1	<0.5	<1
	27-Jul-17	<2.5	<5	<5	<5	<5	<u>260</u>	<u>28</u>	<2.5	<5	<5	<2.5	<5	<u>1,700</u>	<5	<u>1.3</u> J	<5
	17-Oct-18	<1	<2	<2	<u>1.8</u> J	<u>1.3</u> J	<u>180</u>	16	<1	<2	<2	<1	<2	<u>930</u>	<2	<u>3.0</u>	<2
	15-Jul-19	<0.5	<1	<1	<u>1.3</u>	<1	<u>190</u>	14	<0.5	<1	<1	<0.5	<1	<u>920</u>	<2	<u>4.3</u>	<1
	6-Oct-20	<0.5	<1	<1	<u>0.62</u> J	<u>0.97</u> J	<u>160</u>	6.2	<0.5	<1	<1	<0.5	<1	<u>220</u>	<2	<u>5.3</u>	<1
3-Sep-22	<0.5	<1	<1	<1	<u>0.71</u> J	<u>52</u>	1.9	<0.5	<1	<1	<0.5	<1	<u>44</u>	<2	<u>7.6</u>	<1	
MW-15	1-Jul-13	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u>0.73</u>	<1	<0.5	<0.5
	13-Jun-15	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1
	19-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>0.53</u>	<1	<0.5	<1
	1-Aug-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.47 J	<1	<0.5	<1
	18-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>0.51</u>	<1	<1	<1
	23-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>0.97</u>	<2	<1	<1
	2-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1</u>	<2	<1	<1
	Dup3 10/2/20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1.1</u>	<2	<1	<1
	1-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<u>1.3</u>	<2	<1	<1



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-16	10-Jun-15	<0.5	<1	<1	<1	<1	4.7	<1	<0.5	<1	<1	<0.5	<1	<b>4.2</b>	<1	<0.5	<1	
	18-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.46 J	<1	<0.5	<1	
	28-Jul-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<0.5	<1	
	18-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<1	<1	<1	
	23-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	5-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.4 J	<2	<2	<1	
	2-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.36 J	<2	<1	<1	
P-16	10-Jun-15	<0.5	<1	<1	<1	<1	<b>31</b>	1.3	<0.5	<1	<1	<0.5	<1	<b>0.52</b>	<1	<b>9.5</b>	<1	
	18-May-16	<0.5	<1	<1	<1	<1	<b>52</b>	1.5	<0.5	<1	<1	<0.5	<1	<0.5	<1	<b>9.4</b>	<1	
	28-Jul-17	<0.5	<1	<1	<1	<1	<b>120</b>	5.2	<0.5	<1	<1	<0.5	<1	<0.5	<1	<b>18</b>	<1	
	18-Oct-18	<0.5	<1	<1	<1	<1	<b>98</b>	4.8	<0.5	<1	<1	<0.5	<1	<0.5	<1	<b>22</b>	<1	
	23-Jul-19	<0.5	<1	<1	<1	<1	<b>130</b>	6.8	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	5-Oct-20	<0.5	<1	<1	<1	0.59 J	<b>150</b>	6.9	<0.5	<1	<1	<0.5	<1	<0.5	<2	<b>20</b>	<1	
	2-Sep-22	<0.5	<1	<1	<1	0.69 J	<b>160</b>	10	<0.5	<1	<1	<0.5	<1	<0.5	<2	<b>24</b>	<1	
MW-17	27-May-15	<0.5	<1	<1	<b>3.4</b>	<b>0.78 J</b>	<b>270</b>	<b>26</b>	<0.5	<1	<1	<0.5	<1	<b>15</b>	<b>100</b>	<b>1.9</b>	<1	
	Dup1 5/27/15	<0.5	<1	<1	<b>3.2</b>	<b>0.74 J</b>	<b>290</b>	<b>25</b>	<0.5	<1	<1	<0.5	<1	<b>14</b>	<b>100</b>	<b>2</b>	<1	
	5/27/15 - 6/3/15	1st Pilot Test Organic Carbon Injections Occurred 35 feet Upgradient of MW-17																
	30-Jun-15	<0.5	<1	<1	<b>6.5</b>	<b>0.73 J</b>	<b>280</b>	<b>27</b>	<0.5	<1	<1	<0.5	<1	<b>17</b>	<b>77</b>	<b>3.6</b>	<1	
	30-Jul-15	<0.5	<1	<1	<b>8.8</b>	<b>0.79 J</b>	<b>250</b>	<b>26</b>	<0.5	<1	<1	<0.5	<1	<b>19</b>	<b>110</b>	<b>4.9</b>	<1	
	28-Aug-15	<0.5	<1	<1	<b>17</b>	<b>0.68 J</b>	<b>260</b>	<b>23</b>	<0.5	<1	<1	<0.5	<1	<b>16</b>	<b>120</b>	<b>6</b>	<1	
	1-Oct-15	<0.5	<1	<1	<b>19</b>	<b>0.82 J</b>	<b>320</b>	<b>26</b>	<0.5	<1	<1	<0.5	<1	<b>7.5</b>	<b>150</b>	<b>7.1</b>	<1	
	19-May-16	<0.5	<1	<1	<b>8.1</b>	<1	<b>51</b>	8.1	<0.5	<1	<1	<0.5	<1	<0.5	6.2	<b>24</b>	<1	
	31-Jul-17	<0.5	<1	<1	<b>2.6</b>	<1	0.83 J	<1	<0.5	<1	<1	<0.5	<1	<b>1.3</b>	<1	<b>4.8</b>	<1	
	16-Oct-18	<0.5	<1	<1	<b>3.4</b>	<1	<b>7.7</b>	2.8	<0.5	<1	<1	<0.5	<1	0.28 J	<1	<b>14</b>	<1	
	18-Jul-19	<0.5	<1	<1	<b>3.6</b>	<1	4.7	1.6	<0.5	<1	<1	<0.5	<1	<b>1.0</b>	<2	<b>9.1</b>	<1	
	Dup2 7/15/19	<0.5	<1	<1	<b>3.9</b>	<1	4.5	1.9	<0.5	<1	<1	<0.5	<1	<b>0.71</b>	<2	<b>9.3</b>	<1	
	1-Oct-20	<0.5	<1	<1	<b>1.4</b>	<1	1.4	0.46 J	<0.5	<1	<1	<0.5	<1	<b>2.3</b>	<2	<b>2.1</b>	<1	
	Dup2 10/1/20	<0.5	<1	<1	<1	<1	1.4	0.42 J	<0.5	<1	<1	<0.5	<1	<b>2.4</b>	<2	<b>2.1</b>	<1	
1-Sep-22	<0.5	<1	<1	<b>2.8</b>	<1	2.7	<1	<0.5	<1	<1	<0.5	<1	<b>1.1</b>	<2	<b>17</b>	<1		
MW-18	23-May-16	<b>8.1</b>	<2	<2	<2	<2	<b>62</b>	<2	<b>320</b>	<2	<2	<b>230</b>	<2	<b>7.6</b>	<2	<b>340</b>	<b>1,500</b>	
	31-Jul-17	<b>2.4 J</b>	<5	<5	<5	<5	<b>1,200</b>	<5	<b>1,200</b>	<5	<5	<b>280</b>	<5	<b>36</b>	<5	<b>400</b>	<b>3,100</b>	
	17-Oct-18	0.49 J	<2	<2	<2	<b>4.4</b>	<b>1,300</b>	3.3	<b>420</b>	<2	<2	140	<2	<b>150</b>	<2	<b>540</b>	790	
	16-Jul-19	<b>1.2</b>	<1	<1	<1	<b>3.7</b>	<b>180</b>	2.8	<b>310</b>	<1	<1	22	<1	<b>69</b>	<2	<b>110</b>	310	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at MW-18																
	1-Oct-20	<2.5	<5	<5	<5	<5	2.2 J	<5	<b>1,800</b>	<5	<5	71	<5	<2.5	<10	<5	<b>7,800</b>	
29-Aug-22	<2.5	<5	<5	<5	<5	<5	<5	<b>1,200</b>	<5	<5	5.3	<5	<2.5	<10	<5	<b>2,200</b>		
MW-19	23-May-16	<2.5	<5	<5	<5	<4	<b>9.6</b>	<5	<2.5	<5	<5	<2.5	<5	<b>3,000</b>	<5	<2.5	<5	
	1-Aug-17	<2.5	<5	<5	<5	<5	<b>22</b>	5.2	<2.5	<5	<5	<2.5	<5	<b>2,900</b>	<5	<2.5	<5	
	17-Oct-18	<2.5	<5	<5	<5	<5	<b>33</b>	7.4	<2.5	<5	<5	<2.5	<5	<b>2,800</b>	<5	<5	<5	
	22-Jul-19	<1	<2	<2	<2	<2	<b>59</b>	13	<1	<2	<2	<1	<2	<b>2,500</b>	<4	<2	<2	
	5-Oct-20	<5	<10	<10	<10	<10	<b>120</b>	18	<5	<10	<10	<5	<10	<b>3,400</b>	<20	<10	<10	
	1-Sep-22	<2.5	12	<5	<b>3.4 J</b>	<b>2.9 J</b>	<b>700</b>	<b>24</b>	<2.5	<5	<b>2.9 J</b>	1.2 J	<5	<b>3,900</b>	<10	<b>190</b>	<5	
	Dup3 9/1/22	<2.5	19	<5	<5	<b>2.6 J</b>	<b>630</b>	<b>22</b>	<2.5	<5	<5	<2.5	<5	<b>3,200</b>	<10	<b>140</b>	<5	



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,1-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-20	23-May-16	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	1.5	<1	<0.5	<1	
	2-Aug-17	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	1.2	<1	<0.5	<1	
	19-Oct-18	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.36 J	<1	<1	<1	
	22-Jul-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.50	<2	<1	<1	
	6-Oct-20	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1	
	1-Sep-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.47 J	<2	<1	<1	
MW-21	2-Aug-17	<1	<2	<2	<2	<2	11	1.7 J	<1	<2	<2	<1	<2	660	<2	<1	<2	
	8/21/17 - 8/24/17	2nd Pilot Test Organic Carbon Injections Occurred 7 feet Sidegradient of MW-21																
	19-Sep-17	<1	<2	<2	<2	<2	56	4	<1	<2	<2	<1	<2	940	<2	<1	<2	
	5-Dec-17	<1	<2	<2	3.3	<2	83	6.5	<1	<2	<2	<1	<2	1,000	2.3	<1	<2	
	20-Feb-18	<0.5	<1	<1	2.3	0.61 J	150	8.2	<0.5	<1	<1	<0.5	<1	960	2.1	0.77	<1	
	23-Apr-18	<1	<2	<2	3.1	3	1,200	29	<1	<2	<2	<1	<0.7	260	3.2	190	<2	
	2-Jul-18	<10	<20	<20	<20	<20	920	56	<10	<20	<20	<10	<20	<10	<20	7,500	<20	
	15-Oct-18	<5	<10	<10	5.6 J	<10	140	43	<5	<10	<10	<5	<10	3.0 J	<10	5,100	<10	
	18-Jul-19	<0.5	<1	<1	<1	<1	140	9.1	<0.5	<1	<1	<0.5	<1	<0.5	<2	230	<1	
	23-Jul-19	<0.5	<1	<1	<1	<1	320	8.1	<0.5	<1	<1	<0.5	<1	13	<2	310	<1	
	Dup 7/23/2019	<0.5	<1	<1	<1	<1	290	7.2	<0.5	<1	<1	<0.5	<1	12	<2	370	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~60 feet Upgradient of MW-21																
	28-Oct-19	<0.5	0.9 J	<1	2	<1	100	20	<0.5	<1	<1	<0.5	<1	0.97	<2	370	<1	
	14-Jan-20	<0.5	<1	<1	1.4	<1	22	7.9	<0.5	<1	<1	<0.5	<1	<0.5	<2	190	<1	
	4-May-20	<0.5	1.2	<1	1.1	<1	8.0	0.93 J	<0.5	<1	<1	<0.5	<1	0.34 J	<2	47	<1	
	2-Oct-20	<0.5	3	<1	2	<1	3	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	18	<1	
11-Mar-21	<0.5	8.2	<1	1.1	<1	1.2	<1	<0.5	<1	<1	<0.5	<1	0.92	<2	<1	<1		
3-Nov-21	<0.5	9.3	<1	0.49 J	<1	0.75 J	<1	<0.5	<1	<1	<0.5	<1	0.65	<2	1.1	<1		
31-Aug-22	<0.5	6.4	<1	<1	<1	0.93 J	<1	<0.5	<1	<1	<0.5	<1	1.4	<2	1	<1		
MW-22	2-Aug-17	<5	<10	<10	<10	6.2 J	420	83	<5	<10	<10	<5	<10	7,100	<10	<5	<10	
	8/21/17 - 8/24/17	2nd Pilot Test Organic Carbon Injections Occurred 260 feet Upgradient of MW-22																
	19-Sep-17	<10	<20	<20	<20	<20	310	51	<10	<20	<20	<10	<20	6,400	<20	<10	<20	
	5-Dec-17	<10	<20	<20	<20	<20	170	22	<10	<20	<20	<10	<20	5,000	<20	<10	<20	
	20-Feb-18	<2.5	<5	<5	3.2 J	3.5 J	240	39	<2.5	<5	<5	<2.5	<5	6,300	<5	<2.5	<5	
	23-Apr-18	<10	<20	<20	<20	<20	210	40	<10	<20	<20	<10	<20	5,300	<20	<20	<20	
	Dup1 4/23/18	<10	<20	<20	<20	<20	220	41	<10	<20	<20	<10	<20	5,200	<20	<20	<20	
	2-Jul-18	<2.5	<5	<5	<5	<5	46	7.8	<2.5	<5	<5	<2.5	<5	1,600	<5	<5	<5	
	Dup 7/2/18	<2.5	<5	<5	<5	<5	50	8.5	<2.5	<5	<5	<2.5	<5	1,700	<5	<5	<5	
	15-Oct-18	<0.5	<1	<1	<1	<1	7	0.95 J	<0.5	<1	0.49 J	<0.5	<1	550	<1	<1	<1	
	22-Jul-19	<0.5	<1	<1	<1	<1	27	5.1	<0.5	<1	<1	<0.5	<1	780	<2	<1	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~320 feet Upgradient of MW-22																
5-Oct-20	<0.5	<1	<1	<1	<1	0.74 J	<1	<0.5	<1	<1	<0.5	<1	120	<2	<1	<1		
1-Sep-22	<0.5	<1	<1	<1	<1	1.8	<1	<0.5	<1	<1	<0.5	<1	44	<2	<1	<1		
MW-23	2-Aug-17	<0.5	<10	<10	<10	<10	43	12	<5	<10	<10	<5	<10	3,700	<10	<2	<10	
	8/21/17 - 8/24/17	2nd Pilot Test Organic Carbon Injections Occurred 280 feet Upgradient of MW-23																
	19-Sep-17	<5	<10	<10	<10	<10	44	12	<5	<10	<10	<5	<10	4,100	<10	<5	<10	
	Dup 9/19/17	<5	<10	<10	<10	<10	46	12	<5	<10	<10	<5	<10	4,200	<10	<5	<10	
5-Dec-17	<5	<10	<10	<10	<10	38	9.8 J	<5	<10	<10	<5	<10	3,700	<10	<5	<10		



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	Vc	Xylenes	
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000	
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000	
MW-23 (Cont.)	20-Feb-18	<2.5	<5	<5	<5	<5	<u>39</u>	9.4	<2.5	<5	<5	1.3 J	<5	<u>4,000</u>	<5	<2.5	<5	
	23-Apr-18	<2.5	<5	<5	<5	<5	<u>39</u>	8.4	<2.5	<5	<5	<2.5	<5	<u>3,000</u>	<5	<5	<5	
	2-Jul-18	<5	<10	<10	<10	<10	<u>53</u>	12	<5	<10	<10	<5	<10	<u>4,400</u>	<10	<10	<10	
	15-Oct-18	<5	<10	<10	<10	<10	<u>49</u>	18	<5	<10	<10	<5	<10	<u>3,700</u>	<10	<10	<10	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~350 feet Upgradient of MW-23																
	22-Jul-19	<2.5	<5	<5	<5	<5	<u>82</u>	18	<2.5	<5	<5	<2.5	<5	<u>3,400</u>	<10	<5	<5	<5
	5-Oct-20	<5	<10	<10	<10	<10	<u>160</u>	<u>25</u>	<5	<10	<10	<5	<10	<u>4,100</u>	<20	<u>4.2</u> J	<10	
	16-Mar-21	<2.5	<5	<5	<5	<5	<u>140</u>	<u>25</u>	<2.5	<5	<5	<2.5	<5	<u>3,400</u>	<10	<u>45</u>	<5	
1-Sep-22	<2.5	5	<5	<5	<5	<u>430</u>	<u>120</u>	<2.5	<5	<5	<2.5	<5	<u>3,700</u>	<10	<u>450</u>	<5		
MW-24 (Mix Water Supply Well)	2-Aug-17	<2.5	<5	<5	<5	<5	<u>570</u>	<u>260</u>	<2.5	<5	<5	<2.5	<5	<u>1,900</u>	<5	<u>24</u>	<5	
	16-Jul-19	<5	<10	<10	<10	<10	<u>76</u>	<10	<5	<10	<u>21</u>	<5	<10	<u>2,300</u>	<20	<10	<10	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections ~40 feet Upgradient of MW-24																
	29-Oct-19	0.33 J	4.3	<2	<2	<u>5.5</u>	<u>1,700</u>	<u>190</u>	<1	<2	<u>1.6</u> J	0.31 J	<2	<u>300</u>	<4	<u>140</u>	<1	
	14-Jan-20	<0.5	<1	<1	<1	<1	<u>150</u>	8	<0.5	<1	<u>8.4</u>	<0.5	<1	<u>2,000</u>	<2	<1	<1	
	4-May-20	<2.5	<5	<5	<5	<5	<u>140</u>	10	<2.5	<5	<u>12</u>	<2.5	<5	<u>2,000</u>	<10	<5	<5	
	1-Oct-20	<2.5	7.6	<5	<5	<u>6.3</u>	<u>1,800</u>	<u>240</u>	<2.5	<5	<5	<2.5	<5	<u>110</u>	<10	<u>200</u>	<5	
	Dup1 10/1/20	<2.5	7.3	<5	<5	<u>6.1</u>	<u>2,000</u>	<u>230</u>	1.1 J	<5	<5	<2.5	<5	<u>110</u>	<10	<u>190</u>	6.4	
12-Mar-21	<2.5	2.9 J	<5	<5	<u>7.7</u>	<u>2,300</u>	<u>310</u>	<2.5	<5	<u>3.6</u> J	<2.5	<5	<u>300</u>	<10	<u>220</u>	<5		
30-Aug-22	<2.5	<5	<5	<5	<u>5.8</u>	<u>1,700</u>	<u>170</u>	<2.5	<5	<5	<2.5	<5	<u>45</u>	<10	<u>390</u>	<5		
MW-25 (Mix Water Supply Well)	3-Aug-17	<25	<50	<50	<50	<50	<u>550</u>	<u>100</u>	22 J	<50	<50	120	<50	<u>26,000</u>	<50	<u>17</u> J	85	
	15-Oct-18	<50	<100	<100	<100	<100	<u>65</u> J	<100	38 J	<100	<u>57</u> J	120	<100	<u>36,000</u>	<100	<100	77 J	
	17-Jul-19	<25	<50	<50	<50	<50	<u>47</u> J	<50	26	<50	<u>19</u> J	54	<50	<u>20,000</u>	<100	<50	33 J	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections at MW-25																
	29-Oct-19	<1	<2	<2	<2	<u>1.7</u> J	<u>1,100</u>	3.7	0.43 J	<2	<2	1.3	<2	<u>36</u>	<2	<u>83</u>	1.8 J	
	15-Jan-20	<25	<50	<50	<50	<50	<u>12,000</u>	<50	<25	<50	<50	<25	<50	<8.2	<100	<50	<50	
	5-May-20	<50	<100	<100	<100	<u>51</u> J	<u>32,000</u>	<u>42</u> J	29 J	<100	<100	170	<100	<u>140</u>	<200	<u>1,300</u>	91 J	
	1-Oct-20	<10	<20	<20	<20	<u>43</u>	<u>38,000</u>	<u>52</u>	89	<20	<20	<u>410</u>	<20	<u>190</u>	<40	<u>10,000</u>	300	
16-Mar-21	<25	<50	<50	<50	<u>22</u> J	<u>22,000</u>	<u>55</u>	<u>140</u>	<50	<50	<u>490</u>	<50	<u>140</u>	<100	<u>5,700</u>	440		
3-Nov-21	<5	<10	<10	<10	<u>8</u> J	<u>10,000</u>	<u>41</u>	<u>180</u>	<10	<10	<u>360</u>	<10	<u>56</u>	<20	<u>4,300</u>	620		
30-Aug-22	<u>0.75</u> J	<5	<5	<5	<u>5.1</u>	<u>3,100</u>	<u>22</u>	74	<5	<5	160	<5	<u>28</u>	<10	<u>1,000</u>	240		
MW-26	23-Jul-19	<0.5	<1	<1	<u>1.8</u>	<1	<u>140</u>	4.6	<0.5	<1	<1	<0.5	<1	<u>27</u>	<2	<u>0.57</u> J	<1	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at MW-26																
	28-Oct-19	<0.5	<1	<1	<u>2.2</u>	<1	<u>160</u>	6.8	<0.5	<1	<1	<0.5	<1	<u>39</u>	1.1 J	<u>10</u>	<1	
	14-Jan-20	<0.5	<1	<1	<u>1.8</u>	<1	<u>160</u>	4.6	<0.5	<1	<1	<0.5	<1	<u>13</u>	<2	<1	<1	
	30-Apr-20	<0.5	<1	<1	<1	<1	<u>110</u>	3.0	<0.5	<1	<1	<0.5	<1	<0.5	<2	<u>2.2</u>	<1	
	30-Sep-20	<0.5	<1	<1	<1	<1	<u>81</u>	2.7	<0.5	<1	<1	<0.5	<1	<u>1.5</u>	<2	<u>13</u>	<1	
	11-Mar-21	<0.5	<1	<1	<u>0.51</u> J	<1	0.5 J	<1	<0.5	<1	<1	<0.5	<1	<u>2.4</u>	<2	<u>16</u>	<1	
30-Aug-22	<0.5	1.8	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.47 J	<2	<u>1.1</u>	<1		
MW-27	23-Jul-19	<1	<2	<2	<2	<2	<u>1,300</u>	<u>68</u>	<1	<2	<2	<1	<2	<u>430</u>	<4	<u>110</u>	<2	
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at MW-27																
	29-Oct-19	<u>0.65</u>	<1	<1	<u>2.1</u>	<u>1.3</u>	<u>490</u>	<u>26</u>	<0.5	<1	<1	0.25 J	<1	<u>11</u>	2.1	<u>100</u>	<1	
	15-Jan-20	<u>1.1</u>	<2	<2	<2	<u>2.4</u>	<u>680</u>	<u>38</u>	<1	<2	<2	<1	<2	<0.33	2.2 J	<u>93</u>	<2	
	4-May-20	<u>0.85</u>	<1	<1	<u>2.5</u>	<u>1.9</u>	<u>730</u>	<u>28</u>	<0.5	<1	<1	0.19 J	<1	<u>1.6</u>	2.8	<u>180</u>	<1	
30-Sep-20	0.44 J	0.6 J	<1	<u>1.2</u>	<1	<u>60</u>	3.6	<0.5	<1	<1	<0.5	<1	<u>0.5</u>	<2	<u>56</u>	<1		





**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000
MW-27 (Cont.)	12-Mar-21	0.48 J	2.2	<1	0.81 J	<1	4.7	1.5	<0.5	<1	<1	<0.5	<1	0.43 J	<2	2.4	<1
	3-Nov-21	<0.5	<1	<1	0.58 J	<1	0.78 J	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1
	29-Aug-22	0.21 J	0.55 J	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1
MW-28	18-Jul-19	0.66	<1	<1	<1	1.9	500	67	<0.5	<1	<1	<0.5	<1	170	<2	61	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~40 feet Upgradient of MW-28															
	30-Oct-19	0.31 J	<1	<1	<1	<1	110	5.5	0.46 J	<1	<1	0.17 J	<1	13	<2	36	1.1
	15-Jan-20	<0.5	<1	<1	<1	<1	37	2.9	<0.5	<1	<1	<0.5	<1	<0.16	<2	18	0.29 J
	30-Apr-20	0.19 J	6.9	<1	<1	<1	47	<1	<0.5	<1	<1	<0.5	<1	6.4	<2	23	<1
	2-Oct-20	<0.5	20	<1	<1	<1	46	3.7	<0.5	<1	<1	<0.5	<1	<0.16	<2	53	<1
	12-Mar-21	0.26 J	6.9	<1	<1	<1	16	1.3	<0.5	<1	<1	<0.5	<1	3.5	<2	<1	<1
	3-Nov-21	0.63	1.5	<1	<1	<1	8.4	0.46 J	<0.5	<1	<1	<0.5	<1	0.41 J	<2	7.6	<1
30-Aug-22	0.28 J	2.5	<1	<1	<1	0.83 J	<1	<0.5	<1	<1	<0.5	<1	0.45 J	<2	0.74 J	<1	
MW-29 (Mix Water Supply Well)	23-Jul-19	0.64 J	2.9	<2	15	2.3	800	91	<1	<2	<2	<1	<2	3.3	14	55	<2
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at MW-29															
	3-Oct-20	0.63 J	3	<2	<2	2	620	94	<1	<2	<2	<1	<2	0.56 J	<4	93	<2
	12-Mar-21	0.51	2.5	<1	1.2	1.2	400	80	<0.5	<1	<1	<0.5	<1	1.4	<2	130	<1
	30-Aug-22	0.4 J	1	<1	0.84 J	<1	38	30	<0.5	<1	<1	<0.5	<1	0.54	<2	150	<1
MW-30 (Mix Water Supply Well)	23-Jul-19	0.76 J	<2	<2	<2	4.1	<50	140	<1	<2	4.4	0.43 J	<2	3,600	<4	52	<2
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~20 feet Upgradient of MW-30															
	15-Jan-20	<10	<20	<20	<20	<20	6,000	<20	<10	<20	<20	<10	<20	50	<40	190	<20
	30-Apr-20	<5	<10	<10	<10	<10	4,100	24	<5	<10	<10	<5	<10	<5	<20	670	<10
	30-Sep-20	0.81	<1	<1	<1	<1	93	27	<0.5	<1	<1	0.26 J	<1	0.9	<2	120	<1
	12-Mar-21	1.4	0.6 J	<1	<1	<1	55	21	<0.5	<1	<1	0.4 J	<1	0.18 J	<2	410	0.76 J
	3-Nov-21	4.2	1.5	<1	<1	1.1	330	17	<0.5	<1	<1	0.62	<1	6.5	<2	170	1.2
30-Aug-22	21	<20	<20	<20	<20	3,100	22	<10	<20	<20	<10	<20	13	<40	5,800	<20	
TW-1	14-Jun-19	0.16 J	<1	<1	1.1	<1	18	8.7	<0.5	<1	<1	0.38 J	<1	0.18 J	0.78 J	0.89 J	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															
TW-2	14-Jun-19	<0.5	<1	<1	<1	<1	130	5.7	<0.5	<1	<1	<0.5	<1	150	3.7	<1	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															
TW-3	14-Jun-19	0.75 J	1.1 J	<2	1.7 J	7.4	1,900	36	<1	<2	<2	0.53 J	<2	84	<4	310	<2
	Dup 6/14/19	0.92 J	<2	<2	1.7 J	6.7	1,700	38	<1	<2	<2	<1	<2	91	<4	280	<2
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred at TW-3															
	1-Oct-20	0.39 J	<1	<1	<1	0.68 J	320	15	<0.5	<1	<1	<0.5	<1	0.48 J	<2	340	<1
TW-4	14-Jun-19	0.84	<1	<1	<1	2.3	490	49	<0.5	<1	<1	0.19 J	<1	120	<2	66	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~20 feet Upgradient of TW-4															
	1-Oct-20	0.63 J	34	<2	<2	<2	850	47	<1	<2	<2	<1	<2	52	<4	710	<2
	2-Sep-22	1.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	0.59	<2	<1	<1
TW-5	14-Jun-19	<0.5	<1	<1	4.8	0.69 J	300	30	<0.5	<1	<1	0.25 J	<1	6.5	1.0 J	8.8	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															



**TABLE 1**  
**GROUNDWATER VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS SUMMARY**  
**Former Gardner Manufacturing Property**  
**263 Kansas Street**  
**Horicon, Wisconsin**

Monitoring Well	Parameter (µg/l)	Benzene	CA	CM	1,2-DCA	1,1-DCE	c-1,2-DCE	t-1,2-DCE	Ethylbenzene	1,1,2,2-PCA	PCE	Toluene	1,1,2-TCA	TCE	1,2,3-TCP	VC	Xylenes
NR 140 ES		5	400	30	5	7	70	100	700	0.2	5	1,000	5	5	60	0.2	10,000
NR 140 PAL		0.5	80	3	0.5	0.7	7	20	140	0.02	0.5	200	0.5	0.5	12	0.02	1,000
TW-6	14-Jun-19	<0.5	<1	<1	1.5	0.67 J	240	18	<0.5	<1	<1	0.19 J	<1	33	9.4	12	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~40 feet Downgradient of TW-6															
	2-Oct-20	<0.5	<1	<1	1.8	<1	240	17	<0.5	<1	<1	<0.5	<1	49	10	24	<1
	2-Sep-22	<0.5	<1	<1	2.7	0.74 J	250	25	<0.5	<1	<1	<0.5	<1	31	11	50	<1
TW-7	14-Jun-19	<0.5	<1	<1	1.7	0.87 J	290	24	<0.5	<1	<1	0.21 J	<1	54	8.8	15	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															
TW-8	14-Jun-19	<0.5	<1	<1	<1	<1	61	3.6	<0.5	<1	<1	0.26 J	<1	180	4.6	<1	<1
TW-9	14-Jun-19	<0.5	<1	<1	<1	<1	5.2	<1	<0.5	<1	<1	<0.5	<1	1.6	<2	<1	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															
TW-10	14-Jun-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	9.5	<2	<1	<1
	7/23/19 - 8/6/19	Full-Scale Organic Carbon Injections Occurred ~40 feet Downgradient of TW-10															
	5-Oct-20	<0.5	<1	<1	<1	<1	22	0.8 J	<0.5	<1	<1	<0.5	<1	22	<2	<1	<1
	31-Aug-22	<0.5	<1	<1	0.53 J	<1	89	3.2	<0.5	<1	<1	<0.5	<1	37	<2	<1	<1
TW-11	14-Jun-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	33	<2	<1	<1
	8-Nov-19	Temporary Monitoring Well Abandoned															
TW-12	14-Jun-19	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	68	<2	<1	<1
	7/23/19 - 8/6/19	Full - Scale Organic Carbon Injections Occurred at TW-12															
	5-Oct-20	0.17 J	<1	<1	<1	<1	21	0.84 J	<0.5	<1	<1	<0.5	<1	0.57	<2	38	<1
	31-Aug-22	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<0.5	<2	<1	<1

**Notes:**

1. Samples from prior to 2011 were collected by MSA Professional Services, Inc. of Baraboo, Wisconsin and the samples were analyzed by TestAmerica of Watertown, Wisconsin. Samples from after 2011 were collected by GZA GeoEnvironmental, Inc. and the samples were analyzed by ECCS of Madison, Wisconsin. Samples were analyzed for volatile organic compounds (VOCs) in accordance with USEPA Method 8260B.
2. "J" denotes that the reported concentration is an estimated concentration between the Method Detection Limit (MDL) and Limit of Quantification (LOQ) and "D" denotes that the data are reported from a dilution.
3. "-" denotes sample not analyzed for that parameter, and "bg" denotes below grade.
4. Results are provided in micrograms per liter (µg/l).
5. Concentrations that exceed the Wisconsin Administrative Code (WAC) Chapter NR 140 Preventive Action Limit (PAL) are provided in **bold font** and concentrations that exceed the WAC Chapter NR 140 Enforcement Standard (ES) are underlined.
6. Only detected volatile organic compounds are included in the summary.
7. The analytical results for MW-5 and P-5 for the August 30, 2010 sampling date are switched in this table from what was reported by MSA because the data comparison to earlier and later data for each well provides strong evidence that the data were reported for the incorrect wells.
8. HC flag indicates that the results may be biased high because of high continuing calibration verification (CCV).
9. F1= MS and/orMSD recovery exceeds control limits.
10. For the June 2013 groundwater sampling round, toluene was detected in most samples. The toluene concentrations were up to 16 µg/l and are attributed to toluene being introduced into the sample due to the detection of toluene in the field blank.
11. CA denoted chloroethane, CM denotes chloromethane, 1,1-DCE denotes 1,1-dichloroethene, 1,2-DCA denotes 1,2-dichloroethane, c-1,2-DCE denotes cis-1,2-dichloroethene, t-1,2-DCE denotes trans-1,2-dichloroethene, 1,1,2,2-PCA denotes 1,1,2,2-tetrachloroethane, PCE denotes tetrachloroethene, 1,1,2-TCA denotes 1,1,2-trichloroethane, 1,2,3-TCP denotes 1,2,3-trichloropropane, TCE denotes trichloroethene, VC denotes vinyl chloride, DO denotes dissolved oxygen, and TOC denotes total organic carbon.



**TABLE 2**  
**ERD GROUNDWATER REMEDIATION MONITORING SUMMARY**  
**Former Gardner Manufacturing Property**  
**263 Kansas Street**  
**Horicon, Wisconsin**

Parameter	Units	WAC NR 140		MW-2 (~40 feet UG of Injection Zone)									MW-3 (Immediately DG of Injection Zone)									MW-4 (~60 feet DG of Full-Scale Injection Zone)																											
		ES	PAL	16-Jul-19	7/23-8/6	30-Oct-19	13-Jan-20	30-Apr-20	30-Apr-20 Dup	30-Sep-20	16-Mar-21	16-Mar-21 Dup	29-Aug-22	15-Jul-19	7/23-8/6	30-Oct-19	13-Jan-20	13-Jan-20 Dup	30-Apr-20	30-Sep-20	16-Mar-21	3-Nov-21	29-Aug-22	27-Jul-17	#####	5-Dec-17	12/5/17 Dup	#####	2/21/18 Dup	#####	2-Jul-18	15-Oct-18	16-Jul-19	7/23-8/6	28-Oct-19	13-Jan-20	30-Apr-20	30-Sep-20	16-Mar-21	3-Nov-21	30-Aug-22								
				Injection Zone	Injection Zone	Injection Zone																																											
<b>VOCs</b>																																																	
1,1-DCE	µg/l	7.0	0.7	<0.39		<0.39	<0.39	<0.39	0.5 J	<0.39	0.5 J	<0.39	<0.39		0.59 J	<b>0.89 J</b>	<b>0.90 J</b>	0.69 J	<0.39	<0.39		<0.39	<3.9	<3.9	<3.9	<3.9	<2.0	<2.0	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9				
1,2-DCA	µg/l	5.0	0.5	<b>1.3</b>		<0.39	<0.39	<b>1.3</b>	<b>1.3</b>	<b>1.4</b>	<b>2.3</b>	<b>2.2</b>	<b>1.0</b>	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39		<0.39	<4.1	<4.1	<4.1	<4.1	<2.0	<2.0	<4.1	<4.1	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9			
c-1,2-DCE	µg/l	70	7.0	<b>150</b>		<b>130</b>	<b>140</b>	<b>170</b>	<b>170</b>	<b>180</b>	<b>170</b>	<b>160</b>	<b>59</b>	<b>25</b>	<b>210</b>	<b>220</b>	<b>240</b>	<b>190</b>	<b>60</b>	<b>8.1</b>		6.9	<b>96</b>	<b>120</b>	<b>150</b>	<b>130</b>	<b>140</b>	<b>140</b>	<b>150</b>	<b>110</b>	<b>180</b>	<b>110</b>		<b>52</b>	<b>80</b>	<b>82</b>	<b>120</b>	<b>320</b>	<b>270</b>	<b>1,600</b>									
t-1,2-DCE	µg/l	100	20	8.5		7.3	7.5	10	10	13	11	10	3.1	0.52 J	3.1	1.9	2.2	<0.35	1.3	<0.35		<0.35	<3.5	6.4	8.0	7.0	7.4	7.2	16	9.4 J	17	<3.5		4.1 J	<3.5	<1.7	8.2 J	<b>21</b>	13	<b>30</b>									
1,2,3-TCP	µg/l	60	12	3.4		2.3	2.2	1.8 J	1.8 J	3.3	3.1	3.5	3.0	<b>26</b>	<b>28</b>	10	11	6.2	1.2 J	<0.41		<0.41	<4.1	<4.1	<4.1	<4.1	<2.1	<2.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1		
PCE	µg/l	5.0	0.5	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<b>0.95 J</b>	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		<0.37	<3.7	<3.7	<3.7	<3.7	<1.9	<1.9	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	
TCE	µg/l	5.0	0.5	<b>8.3</b>		<b>5.6</b>	<b>5.7</b>	<b>5.2</b>	<b>5.2</b>	<b>5.3</b>	<b>6.2</b>	<b>6.3</b>	<b>3.8</b>	<b>290</b>	<b>25</b>	<b>7.3</b>	<b>8.0</b>	<b>3.8</b>	<b>3.3</b>	<b>4.6</b>		1.6	<b>3,100</b>	<b>4,100</b>	<b>4,000</b>	<b>3,700</b>	<b>4,500</b>	<b>5,000</b>	<b>3,900</b>	<b>3,600</b>	<b>3,600</b>	<b>3,300</b>		<b>1,300</b>	<b>2,700</b>	<b>2,100</b>	<b>2,800</b>	<b>4,200</b>	<b>4,400</b>	<b>3,100</b>									
VC	µg/l	0.2	0.02	<b>2.2</b>		<b>2.4</b>	<0.2	<b>2.2</b>	<b>2.2</b>	<b>11</b>	<b>7.8</b>	<b>8.1</b>	<b>1.3</b>	<0.22	<b>12</b>	<b>14</b>	<b>15</b>	<b>21</b>	<b>70</b>	<b>9.5</b>		<b>1.1</b>	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Iron	µg/l	300	150	<47		<47	49 J F1	48 J	--	<b>300</b>	<b>210</b>	--	--	100	<b>55,000</b>	<b>75,000</b>	--	<b>49,000</b>	<b>37,000</b>	<b>47,000</b>	--	<b>26,000</b>	<47	<47	<47	--	<47	--	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47		
Ethane	µg/l	---	---	<1.5		<1.5	<1.5	<1.5	--	<1.5	<1.5	--	--	<1.5	2.2 J	<17	--	<33	<33	<66	--	<17	<0.14	<1.5	<1.5	--	<1.5	--	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5		
Ethene	µg/l	---	---	<1.5		<1.5	<1.5	<1.5	--	<1.5	<1.5	--	--	<1.5	2.7 J	<17	--	<33	<33	<66	--	<17	<0.13	<1.5	<1.5	--	<1.5	--	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5		
Methane	µg/l	---	---	56		55	160	180	--	190	80	--	--	<1.0	320	11,000	--	15,000	13,000	16,000	--	6,600	<0.08	<1.0	<1.0	--	<1.0	--	15	<1.0	3.9 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DO	mg/l	---	---	0.9		4.5	0.0	2.4	--	0.3	0.5	--	0.8	0.6	3.6	0.0	--	4.1	0.2	10.6	--	0.4	3.1	2.2	0.0	0.0	2.7	--	0.0	1.7	0.0	4.0	6.7	1.3	6.9	1.2	2.3	2.2	0.4										
ORP	mV	---	---	--		99	88	87	--	-84	-5	--	98	--	-112	-126	--	-111	-142	-135	--	-94	93	111	118	118	295	--	127	-42	10	--	85	107	167	78	-22	39	-38										
pH	s.u.	---	---	--		6.4	6.8	7.0	--	6.9	7.4	--	7.4	--	6.1	6.1	--	6.8	6.8	6.9	--	7.3	7.0	7.2	7.3	7.4	--	7.3	7.1	7.7	--	6.7	7.3	7.2	7.1	7.4	7.5	7.7											
Arsenic	µg/l	10	1.0	0.53 J		0.68 J	0.51 J	0.82 JB	--	0.49 J	0.66 J	--	--	0.35 J	<b>7.8</b>	<b>13</b>	--	<b>15 B</b>	<b>16</b>	<b>18</b>	--	<b>16</b>	<b>1.5</b>	0.32 J	0.3	--	0.51 JB	--	0.37 J	<0.23	0.4 J	0.38 J	0.30 J	0.45 J	0.58 JB	0.36 J	0.3 J	0.34 J	<b>1.0</b>										
Chromium	µg/l	100	10	<1.1		2.4 J	<1.1	<1.1	--	<1.1	<1.1	--	--	<1.1	2.9 J	5.2	--	<1.1	<1.1	<1.1	--	<1.1	3.1 J	<1.1	<1.1	--	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1		
Sulfate	mg/l	250	125	33		20	27	21	--	38	39	--	--	9.8	0.13 J	<0.095	--	<0.095	<0.095	1.6	--	2.0 F1	19	21	23	--	26	--	24 B	26	23	17	16	17	15	18	15	14 F2 F1	9.8										
TOC	mg/l	---	---	2.0		2.0	2.6	2.1	--	2.3	2.1	--	--	1.8	190	170	--	140	39	35	--	71	3.2	1.3	1.8	--	1.9	--	2	2.2	2.8	2.1	3.0	2.6	2.3	2.0	2.0	6.8	3.4										





**TABLE 2**  
**ERD GROUNDWATER REMEDIATION MONITORING SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Parameter	Units	WAC NR 140		MW-7 (~80 feet SG/DG of Full-Scale Injection Zone)								P-7 (~90 feet SG/DG of Full-Scale Injection Zone)						MW-10 (~40 feet DG of PT Injections and ~100 feet DG of Full-Scale Injection Zone)																			
		ES	PAL	17-Jul-19	7/23-8/6	30-Oct-19	10/30/19 Dup	13-Jan-20	4-May-20	1-Oct-20	16-Mar-21	2-Sep-22	18-Jul-19	7/23-8/6	30-Oct-19	13-Jan-20	1-Oct-20	16-Mar-21	2-Sep-22	31-Jul-17	8/21-8/24	#####	5-Dec-17	#####	#####	2-Jul-18	15-Oct-18	18-Jul-19	7/23-8/6	28-Oct-19	14-Jan-20	4-May-20	2-Oct-20	11-Mar-21	3-Nov-21	31-Aug-22	
<b>VOCs</b>																																					
1,1-DCE	µg/l	7.0	0.7	<0.39		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39		0.52 J	<0.39	<b>0.84 J</b>	<0.39	0.57 J	<b>5.7 J</b>		<b>5.6 J</b>	<7.8	<b>6.4</b>	<7.8	<7.8	<7.8	<b>21</b>		<b>10</b>	<b>6.3 J</b>	<7.8	<b>3.7 J</b>	<b>6.7</b>	<b>6.4</b>	<b>4.5 J</b>		
1,2-DCA	µg/l	5.0	0.5	<0.39		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39		<0.39	<0.39	<0.39	<0.39	<0.39	<4.1		<b>11</b>	<b>12 J</b>	<b>11</b>	<8.2	<8.2	<b>9.7 J</b>	<3.9	<3.9	<3.9	<7.8	<b>3.2 J</b>	<b>2.4 J</b>	<2.0	<2.0			
c-1,2-DCE	µg/l	70	7.0	2.7		3.7	3.3	0.6 J	<0.41	<0.41	1.3	2.8	<b>43</b>	<b>56</b>	<b>43</b>	<b>77</b>	<b>60</b>	<b>130</b>	<b>650</b>		<b>620</b>	<b>600</b>	<b>750</b>	<b>720</b>	<b>2,900</b>	<b>2,800</b>	<b>7,300</b>	<b>4,800</b>	<b>3,600</b>	<b>2,100</b>	<b>3,000</b>	<b>4,900</b>	<b>5,100</b>	<b>3,600</b>			
t-1,2-DCE	µg/l	100	20	<0.35		<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	0.78 J	0.8 J	0.81 J	1.3	1.0	3.6	<b>64</b>		<b>61</b>	<b>59</b>	<b>79</b>	<b>58</b>	<b>93</b>	<b>77</b>	<b>44</b>	<b>36</b>	<b>31</b>	<b>24</b>	<b>65</b>	<b>94</b>	<b>83</b>	<b>42</b>			
1,2,3-TCP	µg/l	60	12	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	11		<4.1	<8.3	<b>15</b>	<8.3	<8.3	<8.3	<4.1	<4.1	<4.1	<8.3	<2.1	<2.1	<2.1	<2.1			
PCE	µg/l	5.0	0.5	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<3.7		<3.7	<7.4	<1.9	<7.4	<7.4	<7.4	<3.7	<3.7	<3.7	<7.4	<2.1	<1.9	<1.9	<1.9			
TCE	µg/l	5.0	0.5	<b>8.3</b>		<b>8.1</b>	<b>7.7</b>	<b>2.6</b>	<b>2.1</b>	<b>1.6</b>	<b>3.6</b>	<b>7.5</b>	<b>35</b>	<b>34</b>	<b>38</b>	<b>32</b>	<b>18</b>	<b>15</b>	<b>7,800</b>		<b>8,000</b>	<b>6,300</b>	<b>7,100</b>	<b>6,200</b>	<b>8,800</b>	<b>5,200</b>	<b>3,000</b>	<b>1,600</b>	<b>820</b>	<b>410</b>	<b>340</b>	<b>500</b>	<b>300</b>	<b>190</b>			
VC	µg/l	0.2	0.02	<0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<b>1.3</b>	<b>0.53 J</b>	<b>3.1</b>	<b>0.9 J</b>	<b>47</b>	<2.0		<2.0	<4.1	<b>3.2</b>	<4.1	<4.1	<b>810</b>	<b>3,400</b>	<b>6,600</b>	<b>4,800</b>	<b>5,600</b>	<b>5,600</b>	<b>2,200</b>	<b>4,900</b>	<b>3,800</b>			
Iron	µg/l	300	150	<47		<47	--	<47	<47	<47	<47	--	<b>1,500</b>	<b>2,200</b>	<b>1,400</b>	<b>1,600</b>	<b>530</b>	--	<47		<47	<47	<b>310</b>	<b>700</b>	<b>530</b>	<b>850</b>	<b>880</b>	<b>3,700</b>	<b>4,800</b>	<b>3,800</b>	<b>4,400</b>	<b>3,400</b>	<b>3,200</b>	<b>6,800</b>			
Ethane	µg/l	---	---	<1.5		<1.5	--	<1.5	<1.5	<1.5	--	<1.5	<1.5	<1.5	<1.5	<1.5	--	1.0		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	40 J	17	84			
Ethene	µg/l	---	---	<1.5		<1.5	--	<1.5	<1.5	<1.5	--	<1.5	<1.5	<1.5	<1.5	<1.5	--	<0.13		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	330	260	410	500	370	650	1,600			
Methane	µg/l	---	---	<1.0		<1.0	--	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	7.7		8.0	12	12	9.8	11	20	680	6,900	5,500	4,400	4,900	4,800	6,200	11,000				
DO	mg/l	---	---	0.3		3.5	--	0.0	2.2	0.3	1.5	0.5	0.2	3.7	0.0	0.2	2.4	0.5	3.8		3.8	1.1	4.5	1.6	5.1	1.0	0.0	5.8	5.0	3.4	--	--	5.1	4.1			
ORP	mV	---	---	--		29	--	83	-53	42	-10	31	--	-100	-35	-76	-70	9	80		63	31	14	-11	-63	70	--	-68	-115	-104	-138	-102	-127	-95			
pH	s.u.	---	---	--		6.4	--	6.6	7.1	6.8	7.0	7.4	--	6.8	6.8	7.1	7.5	7.8	6.6		7.1	7.0	7.1	7.2	7.1	7.6	--	6.5	7.2	7.5	7.5	7.0	7.6	8.2			
Arsenic	µg/l	10	1.0	<b>1.2</b>		0.75 J	--	0.65 J	0.49 JB	0.43 J	0.24 J	--	<b>1.9</b>	<b>1.8</b>	<b>1.7</b>	<b>1.5</b>	0.77 J	--	0.78 J		0.84 J	0.79 J	<b>2.3 B</b>	<b>1.9</b>	<b>1.4</b>	<b>1.9</b>	<b>6.3</b>	<b>11</b>	<b>7.8</b>	<b>9.2 B</b>	<b>13</b>	<b>16</b>	<b>18</b>	<b>17</b>			
Chromium	µg/l	100	10	<1.1		<1.1	--	<1.1	<1.1	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.1	--	<1.1		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	1.7 J			
Sulfate	mg/l	250	125	69		44	--	35	25	23	28	--	42	43	49	61	55	--	72		77	72	49	34	20	4.1	1.9	0.82	6.7	6.1	2.3	2.5	1.3	0.27			
TOC	mg/l	---	---	4.4		5.1	--	3.9	2.7	3.0	2.6	--	2.0	1.8	1.9	2.0	1.3	--	3.3		2.2	2.6	2.8	2.5	3.0	3.4	3.4	19	18	19	19	6	15	6.6			





**TABLE 2**  
**ERD GROUNDWATER REMEDIATION MONITORING SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Parameter	Units	WAC NR 140		P-10 (~40 feet DG of PT Injections and ~100 feet DG of Full-Scale Injection Zone)												MW-18 (Within Injection Zone)			MW-21 (~7 feet SG of PT Injections and ~60 feet DG of Full-Scale Injection Zone)																						
		ES	PAL	8/21-8/24	#####	5-Dec-17	#####	#####	2-Jul-18	16-Oct-18	23-Jul-19	7/23-8/6	28-Oct-19	14-Jan-20	2-Oct-20	11-Mar-21	31-Aug-22	16-Jul-19	7/23-8/6	1-Oct-20	29-Aug-22	2-Aug-17	8/21-8/24	#####	5-Dec-17	#####	#####	2-Jul-18	15-Oct-18	18-Jul-19	23-Jul-19	7/23/19 Dup	7/23-8/6	28-Oct-19	14-Jan-20	4-May-20	2-Oct-20	11-Mar-21	3-Nov-21	31-Aug-22	
<b>VOCs</b>																																									
1,1-DCE	µg/l	7.0	0.7	<b>1.7</b>		0.55 J	<b>1.2</b>	<b>2.0</b>	0.5 J	<0.39	<0.39	0.45 J		0.47 J	<0.39	<0.39	<b>1.2</b>	<0.39	<b>3.7</b>		<2.0	<2.0	<0.78		<0.78	<0.78	0.61 J	<b>3.0</b>	<7.8	<3.9	<0.39	<0.39	0.52 J		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-DCA	µg/l	5.0	0.5	<b>30</b>	E	<b>29</b>	<b>37</b>	<b>31</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>42</b>		<b>32</b>	<b>46</b>	<b>36</b>	<b>41</b>	<b>33</b>	<0.39		<2.0	<2.0	<0.82	E	<0.82	<b>3.3</b>	<b>2.3</b>	<b>3.1</b>	<7.8	<b>5.6 J</b>	<0.39	<0.39	<0.39		<b>2.0</b>	<b>1.4</b>	<b>1.1</b>	<b>2.0</b>	<b>1.1</b>	0.49 J	<0.39
c-1,2-DCE	µg/l	70	7.0	<b>370</b>	V	<b>120</b>	<b>180</b>	<b>280</b>	<b>110</b>	<b>91</b>	<b>81</b>	<b>110</b>		<b>130</b>	<b>130</b>	<b>95</b>	<b>270</b>	<b>20</b>	<b>180</b>		2.2 J	<2.0	<b>11</b>	V	<b>56</b>	<b>83</b>	<b>150</b>	<b>1,200</b>	<b>920</b>	<b>140</b>	<b>140</b>	<b>320</b>	<b>290</b>		<b>100</b>	<b>22</b>	<b>8.0</b>	<b>3.0</b>	<b>1.2</b>	0.75 J	0.93 J
t-1,2-DCE	µg/l	100	20	<b>18</b>	O	11	14	10	9.6	11	5.6	7.3		6.3	8.0	4.2	8.5	<0.35	2.8		<1.7	<1.7	1.7 J	O	4.0	6.5	8.2	<b>29</b>	<b>56</b>	<b>43</b>	9.1	8.1	7.2		<b>20</b>	7.9	0.93 J	<0.35	<0.35	<0.35	<0.35
1,2,3-TCP	µg/l	60	12	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41		<2.1	<2.1	<0.83		<0.83	2.3	2.1	3.2	<8.3	<4.1	<0.41	<0.41	<0.41		<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	
PCE	µg/l	5.0	0.5	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		<1.9	<1.9	<0.74		<0.74	<0.74	<0.37	<0.74	<7.4	<3.7	<0.37	<0.37	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	
TCE	µg/l	5.0	0.5	<b>6.4</b>	P	<b>3.3</b>	<b>50</b>	<b>24</b>	<b>1.3</b>	<b>1.7</b>	<b>0.99</b>	<b>0.55</b>		<b>18</b>	<b>11</b>	<b>5.0</b>	<b>1.9</b>	0.21 J	<b>69</b>		<0.82	<0.82	<b>660</b>	P	<b>940</b>	<b>1,000</b>	<b>960</b>	<b>260</b>	<3.3	<b>3.0 J</b>	<0.16	<b>13</b>	<b>12</b>		<b>0.97</b>	<0.16	0.34 J	<0.16	<b>0.92</b>	<b>0.65</b>	<b>1.4</b>
VC	µg/l	0.2	0.02	<b>35</b>	T	<b>13</b>	<b>14</b>	<b>22</b>	<b>11</b>	<b>7.7</b>	<b>12</b>	<b>32</b>		<b>14</b>	<b>9.8</b>	<b>22</b>	<b>160</b>	<b>33</b>	<b>110</b>		<1.0	<1.0	<0.41		<0.41	<0.41	<b>0.77</b>	<b>190</b>	<b>7,500</b>	<b>5,100</b>	<b>230</b>	<b>310</b>	<b>370</b>		<b>370</b>	<b>190</b>	<b>47</b>	<b>18</b>	<0.2	<b>1.1</b>	<b>1.0</b>
Iron	µg/l	300	150	<b>5,300</b>		<b>14,000</b>	<b>4,300</b>	<b>2,300</b>	<b>2,600</b>	<b>3,500</b>	<b>2,000</b>	--		<b>2,300</b>	<b>3,300</b>	<b>3,900</b>	<b>14,000</b>	<b>3,000</b>	<b>2,900</b>		-	<b>25,000</b>	<b>9,400</b>	T	<b>1,600</b>	<b>6,500</b>	<b>8,900</b>	<b>18,000</b>	<b>28,000</b>	<b>35,000</b>	<b>41,000</b>	<b>29,000</b>	--	<b>34,000</b>	<b>32,000</b>	<b>34,000</b>	<b>24,000</b>	<b>22,000</b>	<b>12,000</b>	<b>15,000</b>	
Ethane	µg/l	---	---	0.87	I	<1.5	<17	<1.5	<17	<1.5	<1.5	--		<1.5	<1.5	<1.5	2.7 J	<17	110		--	<33	<0.14	I	<1.5	<1.5	<1.5	<17	<1.5	<33	<17	<1.5	--	1.7 J	<17	<66	<66	120 J	180	130	
Ethene	µg/l	---	---	1.8	n	<1.5	<17	<1.5	<17	<1.5	<1.5	--		<1.5	<1.5	<1.5	15	<17	34 J		--	<33	<0.13	n	<1.5	<1.5	<1.5	<17	230	400	<17	<1.5	--	560	240	300 J	960	520	<17	<1.5	
Methane	µg/l	---	---	100	j	140	130	110	70	150	130	--		83	71	140	330	2,600	2,200		--	8,300	0.55	j	<1.0	<1.0	46	620	5,100	5,100	1,200	6,700	--	4,600	6,700	9,800	10,000	27,000	20,000	13,000	
DO	mg/l	---	---	0.9	e	0.6	0.0	3.1	0.0	0.9	1.3	2.6		4.8	0.0	2.8	9.1	0.2	0.1		0.2	0.3	4.6	e	2.6	0.6	4.8	1.8	3.9	0.2	0.0	4.8	--	6.3	0.4	3.7	--	--	4.8	3.3	
ORP	mV	---	---	-66	c	-57	-47	-50	-68	-115	-83	--		-40	-36	-50	-68	-80	--		-170	-120	77	c	9	-110	-79	-120	-139	-141	--	--	--	-138	-138	-118	-145	-172	-157	-141	
pH	s.u.	---	---	7.4	t	7.0	7.0	7.4	7.1	7.0	7.3	--		6.4	7.9	7.1	6.6	7.7	--		6.9	7.4	6.9	t	7.2	7.1	7.0	7.2	7.0	7.5	--	--	--	6.7	6.9	7.3	7.2	7.5	7.6	8.2	
Arsenic	µg/l	10	1.0	<b>1.8</b>	o	<b>3.8</b>	0.83 J	0.89 JB	0.84 J	0.69 J	0.9 J	--		<b>1.2</b>	0.89 J	0.65 J	<b>3.5</b>	<b>1.5</b>	<b>3.9</b>		--	<b>44</b>	<b>3.6</b>	o	<b>1.9</b>	<b>7.4</b>	<b>12 B</b>	<b>14</b>	<b>18</b>	<b>22</b>	<b>15</b>	<b>9.2</b>	--	<b>18</b>	<b>18</b>	<b>15 B</b>	<b>20</b>	<b>19</b>	<b>18</b>	<b>19</b>	
Chromium	µg/l	100	10	2.0 J	n	<b>13</b>	1.7 J	<1.1	<1.1	1.6 J	<1.1	--		1.3	1.3 J	1.1 J	<b>12</b>	<1.1	1.9		--	2.7 J	6.0	n	1.3 J	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
Sulfate	mg/l	250	125	90	s	97	89	84	88	100	83	--		81	80	96	59	3.7	100		--	71	13	s	36	23	8.4	2.4	0.18 J	0.49	0.12 J	0.67	--	0.86	0.7	0.45	0.51	0.69	1.7	0.14 J	
TOC	mg/l	---	---	4.0		1.9	2.9	3.6	2.8	3.4	2.5	--		2.7	2.6	3.0	2.1	55	8.9		--	16	3.4		4.5	17	9.7	34	92	79	44	37	--	72	56	32	100	290	23	8.2	



**TABLE 2  
ERD GROUNDWATER REMEDIATION MONITORING SUMMARY  
Former Gardner Manufacturing Property  
263 Kansas Street  
Horicon, Wisconsin**

Parameter	Units	WAC NR 140		MW-22 (~260 feet DG of PT Injections and ~320 feet DG of Full-Scale Injection Zone)												MW-23 (~280 feet DG of PT Injections and ~350 feet DG of Full-Scale Injection Zone)												MW-24 (~40 DG of Full-Scale Injection Zone)											
		ES	PAL	8/21- 8/24	5-Dec-17	4/23/18 Dup	2-Jul-18	7/02/18 Dup	15-Oct-18	22-Jul-19	7/23- 8/6	5-Oct-20	1-Sep-22	8/21- 8/24	9/19/17 Dup	5-Dec-17	2-Jul-18	15-Oct-18	22-Jul-19	7/23- 8/6	5-Oct-20	1-Sep-22	2-Aug-17	16-Jul-19	7/23- 8/6	29-Oct-19	14-Jan-20	4-May-20	1-Oct-20	DUP1 10/01/20	12-Mar-21	30-Aug-22							
		ES	PAL	8/21- 8/24	5-Dec-17	4/23/18 Dup	2-Jul-18	7/02/18 Dup	15-Oct-18	22-Jul-19	7/23- 8/6	5-Oct-20	1-Sep-22	8/21- 8/24	9/19/17 Dup	5-Dec-17	2-Jul-18	15-Oct-18	22-Jul-19	7/23- 8/6	5-Oct-20	1-Sep-22	2-Aug-17	16-Jul-19	7/23- 8/6	29-Oct-19	14-Jan-20	4-May-20	1-Oct-20	DUP1 10/01/20	12-Mar-21	30-Aug-22							
<b>VOCs</b>																																							
1,1-DCE	µg/l	7.0	0.7	6.2 J	<7.8	<7.8	3.5 J	<7.8	<7.8	<2.0	<2.0	<0.39	<0.39	<0.39	<3.9	<3.9	<3.9	<2.0	<2.0	<3.9	<3.9	<2.0	<2.0	<3.9	<2.0	<2.0	<2.0	<3.9	5.5	<0.39	<2.0	6.3	6.1	7.7	5.8				
1,2-DCA	µg/l	5.0	0.5	<4.1	<8.2	<8.2	3.2 J	<8.2	<8.2	<2.1	<2.1	<0.39	<0.39	<0.39	<4.1	<4.1	<4.1	<2.0	<2.0	<4.1	<3.9	<2.0	<2.0	<3.9	<2.0	<2.0	<2.0	<3.9	<0.78	<0.39	<2.0	<2.0	<2.0	<2.0	<2.0				
c-1,2-DCE	µg/l	70	7.0	420	310	170	240	210	220	46	50	7.0	27	0.74 J	1.8	43	44	46	38	39	39	53	49	82	160	140	430	570	76	1,700	150	140	1,800	2,000	2,300	1,700			
t-1,2-DCE	µg/l	100	20	83	51	22	39	40	41	7.8	8.5	0.95 J	5.1	<0.35	<0.35	12	12	12	9.8	9.4	8.4	12	18	18	25	25	120	260	<10	190	8.0	10	240	230	310	170			
1,2,3-TCP	µg/l	60	12	<4.1	<8.3	<8.3	<2.1	<8.3	<8.3	<2.1	<2.1	<0.41	<0.41	<0.41	<4.1	<4.1	<4.1	<2.1	<2.1	<4.1	<4.1	<2.1	<2.1	<4.1	<4.1	<2.1	<2.1	<4.1	<0.83	<0.41	<2.1	<2.1	<2.1	<2.1	<2.1				
PCE	µg/l	5.0	0.5	<3.7	<7.4	<7.4	<1.9	<7.4	<7.4	<1.9	<1.9	0.49 J	<0.37	<0.37	<3.7	<3.7	<3.7	<1.9	<1.9	<3.7	<3.7	<1.9	<1.9	<3.7	<3.7	<1.9	<1.9	<2.1	1.6 J	8.4	12	<1.9	<1.9	3.6 J	<1.9				
TCE	µg/l	5.0	0.5	7,100	6,400	5,000	6,300	5,300	5,200	1,600	1,700	550	780	120	44	3,700	4,100	4,200	3,700	4,000	3,000	4,400	3,700	3,400	4,100	3,400	3,700	1,900	2,300	300	2,000	2,000	110	110	300	45			
VC	µg/l	0.2	0.02	<2.0	<4.1	<4.1	<1.0	<4.1	<4.1	<1.0	<1.0	<0.2	<0.2	<0.2	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	140	<0.2	<1.0	200	190	220	390				
Iron	µg/l	300	150	<47	<47	<47	<47	--	<47	--	<47	--	--	--	<47	--	<47	<47	<47	57 J	<47	--	--	--	75 J	140	--	<47	1,400	<47	<47	1,900	--	1,300	11,000				
Ethane	µg/l	--	--	0.28 J	<1.5	<1.5	<1.5	<1.5	--	<1.5	--	<1.5	--	--	<0.14	<1.5	--	<1.5	<1.5	<1.5	<1.5	--	--	--	--	<1.5	<1.5	--	<1.5	82 J	<1.5	<1.5	69	--	77	90			
Ethene	µg/l	--	--	<0.13	<1.5	<1.5	<1.5	<1.5	--	<1.5	--	<1.5	--	--	<0.13	<1.5	--	<1.5	<1.5	<1.5	<1.5	--	--	--	--	<1.5	7.8	--	<1.5	<33	<1.5	<1.5	77	--	42	180			
Methane	µg/l	--	--	0.28 J	13	41	29	8.1	--	<1.0	--	<1.0	--	--	0.18 J	<1.0	--	<1.0	<1.0	<1.0	<1.0	--	--	--	--	71	980	--	<1.0	670	<1.0	<1.0	1,100	--	1,100	3,400			
DO	mg/l	--	--	3.5	4.2	0.0	5.5	3.2	--	5.5	--	1.4	8.0	7.9	7.1	2.2	1.7	1.7	0.0	3.5	0.8	1.5	0.0	1.3	1.1	0.5	0.7	0.4	1.4	3.7	0.0	1.9	0.2	--	1.5	0.3			
ORP	mV	--	--	57	69	76	135	100	--	-20	--	61	--	91	86	47	49	49	56	118	69	-22	55	--	63	-4	49	-14	--	-50	69	-55	-95.8	--	-65	-94			
pH	s.u.	--	--	7.1	7.1	7.1	7.1	7.1	--	7.1	--	7.7	--	7.2	7.9	7.1	7.0	7.0	6.9	7.1	7.1	7.0	7.6	--	7.0	7	8	7.4	--	6.4	6.6	7.1	6.9	--	7.2	7.6			
Arsenic	µg/l	10	1.0	0.77 J	0.7 J	0.37 J	0.46 JB	0.48 J	--	<0.23	--	0.43 J	--	--	0.73 J	0.69 J	--	0.6 J	0.77 JB	0.46 J	0.25 J	0.56 J	--	--	--	0.39 J	0.82 J	--	0.55 J	1.8	0.5 J	0.39 JB	2.3	--	1.4	8.8			
Chromium	µg/l	100	10	<1.1	1.2 J	<1.1	<1.1	<1.1	--	1.6 J	--	1.6 J	--	--	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1			
Sulfate	mg/l	250	125	30	30	30	36	34 F1	--	18	--	27	--	--	72	74	--	71	71	66	65	66	--	--	--	50	36	--	22	72	22	22	68	--	63	1.1			
TOC	mg/l	--	--	3.3	1.4	1.8	1.5	1.5	--	1.8	--	<0.47	--	--	2.4	1.0	--	1.8	1.6	1.6	1.8	1.8	--	--	--	1.5	2.3	--	3.2	3.2	3.3	3.3	2.6	--	2.9	19			



**TABLE 2**  
**ERD GROUNDWATER REMEDIATION MONITORING SUMMARY**  
 Former Gardner Manufacturing Property  
 263 Kansas Street  
 Horicon, Wisconsin

Parameter	Units	WAC NR 140		MW-25 (Within Full-Scale Injection Zone)								MW-26 (Within Full-Scale Injection Zone)						MW-27 (Within Full-Scale Injection Zone)						MW-28 (~40 feet DG of Full-Scale Injection Zone)						MW-29 (~30' DG of Full-Scale Inj Zone)														
		ES	PAL	3-Aug-17	15-Oct-18	17-Jul-19	7/23-8/6	29-Oct-19	15-Jan-20	5-May-20	1-Oct-20	12-Mar-21	3-Nov-21	30-Aug-22	23-Jul-19	7/23-8/6	28-Oct-19	14-Jan-20	#####	#####	#####	30-Aug-22	23-Jul-19	7/23-8/6	29-Oct-19	15-Jan-20	4-May-20	#####	#####	3-Nov-21	29-Aug-22	18-Jul-19	7/23-8/6	30-Oct-19	15-Jan-20	#####	2-Oct-20	12-Mar-21	3-Nov-21	30-Aug-22	23-Jul-19	7/23-8/6	#####	12-Mar-21
<b>VOCs</b>																																												
1,1-DCE	µg/l	7.0	0.7	<20	<39	<20	1.7 J	<20	51 J	43	22 J	8.0 J	5.1	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	4.9	1.3	2.4	1.9	<0.39	<0.39	<0.39	<0.39	1.9	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	2.3	2.0	1.2	<0.39			
1,2-DCA	µg/l	5.0	0.5	<20	<39	<20	<0.78	<20	<39	<7.8	<20	<3.9	<2.0	1.8	2.2	1.8	<0.39	<0.39	0.51 J	<0.39	<0.78	<0.78	2.1	<0.78	2.5	1.2	0.81 J	0.58 J	<0.39	<0.39	<0.39	<0.39	15	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	15	<0.78	1.2	0.84 J
c-1,2-DCE	µg/l	70	7.0	550	65 J	47 J	1,100	12,000	32,000	38,000	22,000	10,000	3,100	140	160	160	110	81	0.5 J	<0.41	1,300	490	680	730	60	4.7	0.78 J	<0.41	500	110	37	47	46	16	8.4	0.83 J	800	620	400	38				
t-1,2-DCE	µg/l	100	20	100	<35	<17	3.7	<17	42 J	52	55	41	22	4.6	5.8	4.6	3.0	2.7	<0.35	<0.35	68	26	38	28	3.6	4.7	<0.35	<0.35	67	5.5	2.9	<0.35	3.7	1.3	0.46 J	<0.35	91	94	80	30				
1,2,3-TCP	µg/l	60	12	<21	<41	<21	<0.83	<21	<41	<8.3	<21	<4.1	<2.1	<0.41	1.1 J	<0.41	<0.41	<0.41	<0.41	<0.41	<0.83	2.1	2.2 J	2.8	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	14	<0.83	<0.41	<0.41				
PCE	µg/l	5.0	0.5	<19	57 J	19 J	<0.74	<19	<37	<7.4	<19	<3.7	<1.9	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.74	<0.37	<0.74	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		
TCE	µg/l	5.0	0.5	26,000	36,000	20,000	36	<8.2	140	190	140	56	28	27	39	13	<0.16	1.5	2.4	0.47 J	430	11	<0.33	1.6	0.5	0.43 J	<0.16	<0.16	170	13	<0.16	6.4	<0.16	3.5	0.41 J	0.45 J	3.3	0.56 J	1.4	0.54				
VC	µg/l	0.2	0.02	17 J	<20	<10	83	<10	1,300	10,000	5,700	4,300	1,000	0.57 J	10	<0.2	2.2	13	16	1.1	110	100	93	180	56	2.4	<0.2	<0.2	61	36	18	23	53	<0.2	7.6	0.74 J	55	93	130	150				
Iron	µg/l	300	150	--	--	<47	19,000	42,000	59,000	62,000	61,000	64,000	59,000	290	35,000	33,000	20,000	29,000	42,000	47,000	49 J	73,000	100,000	57,000	61,000	49,000	35,000	31,000	<47	29,000	53,000	47,000	25,000	33,000	27,000	33,000	--	1,700	2,200	2,400				
Ethane	µg/l	---	---	--	--	<1.5	<130	1.6 J	<17	<170	<66	<66	<66	<1.5	1.6	1.5 J	<130	<33	<33	<17	12	<66	<17	<66	<66	21 J	<33	<33	77 J	22 J	<66	<33	190	<17	140 J	150	--	20	43	220				
Ethene	µg/l	---	---	--	--	<1.5	<130	<1.5	<17	<170	620	1,000	190 J	<1.5	<1.5	<1.5	<130	<33	35 J	<17	<1.5	<66	<17	<66	<66	<17	<33	<33	<17	<17	<66	<33	<17	<17	47 J	<17	--	74	49	30 J				
Methane	µg/l	---	---	--	--	<1.0	<88	4,100	7,400	9,100	8,800	9,200	5,100	26	44	170	8,200	9,100	9,100	18,000	520	710	2,500	9,700	5,000	13,000	11,000	12,000	710	300	3,300	4,500	6,000	120	8,600	12,000	--	1,100	1,000	10,000				
DO	mg/l	---	---	0.7	1.0	4.9	3.6	0.0	1.2	0.2	0.9	2.5	0.4	4.2	3.7	0.0	1.2	0.1	2.0	0.3	1.4	3.6	0.0	1.1	0.2	0.8	1.6	0.4	2.1	3.5	0.0	5.2	0.3	1.8	2.5	0.5	--	0.1	3.3	0.3				
ORP	mV	---	---	16	70	--	-68	-26	26	-63.6	5	-11	-5	--	-129	-120	-86	-144.4	-161	-131	--	-88	-57	-50	-183.1	-99	-52	-122	--	-180	-145	-147	-177.5	-158	-135	-108	--	-336.2	-109	-86				
pH	s.u.	---	---	7.0	7.6	--	5.8	5.7	5.8	5.7	5.9	6.2	6.6	--	6.1	7.4	6.9	6.9	7.2	7.7	--	5.9	6.3	6.5	6.5	6.8	7.3	7.4	--	6.4	7.0	7.0	6.7	7.2	6.9	7.4	--	7.0	7.1	7.6				
Arsenic	µg/l	10	1.0	--	--	0.76 J	0.97 J	0.94 J	2.6 B	2.9 J	3.8	4.2	7.6	0.76 J	4.3	6.5	5.4 B	7.6	8.4	16	0.82 J	4.5	4.4	2.9 B	6.7	5.5	6.9	8.6	19	6.3	6.2	6.9 B	7.4	6.1	55	16	--	0.41 J	0.27 J	<0.23				
Chromium	µg/l	100	10	--	--	16	2.9 J	1.8 J	3.1 J	<11	1.7 J	1.1 J	<1.1	<1.1	<1.1	<1.1	1.5 J	<1.1	<1.1	<1.1	<1.1	1.1 J	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	2.4 J	<1.1	--	<1.1	<1.1	<1.1					
Sulfate	mg/l	250	125	--	--	120	0.18 J	0.11 J	0.21	0.19 J	0.43	0.28	<0.095	38	18	0.21	0.32	0.26	0.2	7.8	51	0.19 J	<0.095	<0.095	0.14 J	0.16 J	1.1	0.36	69	8.1	3.0	3.1	59	36	23	16	--	33	54	3.5				
TOC	mg/l	---	---	--	--	2.5	220	340	1,200	4,600	3,400	1,300	440	1.6	150	72	130	140	280	24	2.9	530	390	290	240	220	170	13	4.3	31	62	57	15	16	32	14	--	10	2.4	63				



**TABLE 2**  
**ERD GROUNDWATER REMEDIATION MONITORING SUMMARY**  
**Former Gardner Manufacturing Property**  
**263 Kansas Street**  
**Horicon, Wisconsin**

Parameter	Units	WAC NR 140		MW-30 (~20 feet DG of Full-Scale Injection Zone)							
		ES	PAL	23-Jul-19	7/23-8/6	15-Jan-20	30-Apr-20	30-Sep-20	12-Mar-21	3-Nov-21	30-Aug-22
<b>VOCS</b>											
1,1-DCE	µg/l	7.0	0.7	<b>4.1</b>		<7.8	<3.9	<0.39	<0.39	<b>1.1</b>	<7.8
1,2-DCA	µg/l	5.0	0.5	<0.78		<7.8	<3.9	<0.39	<0.39	<0.39	<7.8
c-1,2-DCE	µg/l	70	7.0	<20		<b>6,000</b>	<b>4,100</b>	<b>93</b>	<b>55</b>	<b>330</b>	<b>3,100</b>
t-1,2-DCE	µg/l	100	20	<b>140</b>		<7.0	<b>24</b>	<b>27</b>	<b>21</b>	<b>17</b>	<b>22</b>
1,2,3-TCP	µg/l	60	12	<0.83		<8.3	<4.1	<0.41	<0.41	<0.41	<8.3
PCE	µg/l	5.0	0.5	<b>4.4</b>		<7.4	<3.7	<0.37	<0.37	<0.37	<7.4
TCE	µg/l	5.0	0.5	<b>3,600</b>		<b>50</b>	<1.6	<b>0.9</b>	0.18 J	<b>6.5</b>	<b>13</b>
VC	µg/l	0.2	0.02	<b>52</b>		<b>190</b>	<b>670</b>	<b>120</b>	<b>410</b>	<b>170</b>	<b>5,800</b>
Iron	µg/l	300	150	--		<b>150,000</b>	<b>170,000</b>	<b>100,000</b>	<b>74,000</b>	<b>49,000</b>	<b>22,000</b>
Ethane	µg/l	--	--	--		<33	<170	<33	190	340	170
Ethene	µg/l	--	--	--		<33	<170	1,100	1,100	320	1,800
Methane	µg/l	--	--	--		2,400	4,600	6,000	7,600	12,000	9,500
DO	mg/l	--	--	--		0.0	1.2	0.2	0.7	1.3	0.3
ORP	mV	--	--	--		-68	-81	-165.8	-121	-101	-85
pH	s.u.	--	--	--		6.0	6.5	6.5	6.8	7.2	7.3
Arsenic	µg/l	10	1.0	--		<b>22</b>	<b>39 B</b>	<b>36</b>	<b>29</b>	<b>34</b>	<b>25</b>
Chromium	µg/l	100	10	--		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Sulfate	mg/l	250	125	--		4.1	0.18 J	1.1	2.6	5.0	4.5 F1
TOC	mg/l	--	--	--		740	660	410	220	92	69

**Notes:**

1. Samples were collected on an approximately monthly basis by GZA GeoEnvironmental, Inc. (GZA) and analyzed by TestAmerica of Watertown, Wisconsin utilizing United States Environmental Protection Agency (USEPA) Method 8260B for volatile organic compounds (VOCS), Method RSK-175 for ethane, ethene and methane, Method 6020A for iron, USEPA Method 300.0 for sulfate, and Method 9060A for total organic carbon. Results are provided in micrograms per liter (µg/l) and milligrams per liter (mg/l), as indicated.
2. Water quality parameters including dissolved oxygen, oxygen reduction potential, and pH were also measured in the field by GZA personnel on an approximately biweekly basis. Results are provided in mg/l, millivolts (mV), and standard units (s.u.), as indicated.
3. Wisconsin Administrative Code (WAC) Chapter NR 140 Groundwater Enforcement Standards (ESs) and Preventive Action Limits (PALs) are provided for reference where established. The iron ES and PAL are provided from WAC Chapter NR140 Public Welfare Groundwater Quality Standards. **Bold font** for VOCS and metals indicates the parameter was detected above the PAL and **Bold and underlined font** for VOCS and metals indicates the parameter was detected above the ES.
4. "<" denotes that the constituent was not detected at a concentration greater than the listed Method Detection Limit (MDL).
5. J = Result reported between the MDL and Limit of Quantitation (LOQ) is less certain than results at or above the LOQ.
6. B = Compound was detected in the blank and the sample.
7. F1= MS and/orMSD recovery exceeds control limits.
8. Approximately 8,000 gallons of 9 percent EVO solution were direct injected in the upper 20 feet of the water table upgradient of MW-10 over the period August 21-24, 2017. Approximately 67,000 gallons of 9 percent EVO solution were direct injected in the upper 20 feet of the water table along profiles that transected the Site over the period of July 23 to August 6, 2019.
9. The pH and ORP probes were providing erroneous readings for the July 2019 groundwater sampling round and are not included in the table.

9. 1,1-DCE denotes 1,1-Dichloroethene, 1,2-DCA denotes 1,2-Dichloroethane, c-1,2-DCE denotes cis-1,2-Dichloroethene, t-1,2-DCE denotes trans-1,2-Dichloroethene, 1,2,3-TCP denotes 1,2,3-Trichloropropane, TCE denotes Trichloroethene, VC denotes Vinyl Chloride, DO denotes dissolved oxygen, and TOC denotes total organic carbon.



**TABLE 3  
SOIL VAPOR MONITORING RESULTS  
1302 East Monroe Street  
Goshen, Indiana**

Sample Location		September 4, 2019				October 4, 2019				November 11, 2019				December 3, 2019				January 9, 2020				February 7, 2020				March 11, 2020			
		CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S
		ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
Vapor Probes	VP-1 <sup>Note 3</sup>	210	20.9	0	0	20	20.9	0	0	<500	19.8	0	0	980	14.7	0	0	3,250	11.2	0	0	150	20.4	0	0	1,600	13.1	0	0
	VP-2	1,050	20.9	0	0	120	16.4	0	0	<500	15.4	0	0	0	15.5	0	0	65	15.9	0	0	250	17.9	0	0	0	17.6	0	0
	VP-3	1,050	19.2	0	0	210	8.0	0	0	<500	--	--	--	220	20.9	0	0	95	17.2	0	0	320	18.4	0	0	110	17.4	0	0
	VP-4	880	16.4	0	0	180	16.4	0	0	<500	11.7	0	0	15	17.0	0	0	320	17.2	0	0	260	17.7	0	0	5	18.2	0	0
	VP-5	870	17.0	0	0	90	16.5	0	0	<500	15.8	0	0	5	16.7	0	0	320	17.1	0	0	260	17.6	0	0	10	18.2	0	0
	VP-6	830	13.0	0	0	240	13.4	0	0	<500	13.1	0	0	15	14.6	0	0	--	--	--	--	--	--	--	--	30	17.1	--	--
	VP-7	560	3.4	0	0	110	4.6	0	0	<500	6.5	0	0	90	6.9	0	0	35	11.7	0	0	--	--	--	--	45	11.6	0	0
	VP-8	1,000	14.7	0	0	320	9.1	0	0	<500	12.2	0	0	270	10.9	0	0	400	13.0	0	0	430	11.3	0	0	380	6.1	0	0
Monitoring Wells	MW-21 <sup>Note 3</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10,250	1.2	3	0	
	TW-3 <sup>Note 3</sup>	--	--	--	--	--	--	--	--	4,000	11.2	26	0	1,800	6.4	0	0	3,500	1.4	0	0	250	20.4	0	0	700	0.5	8	0
	TW-4	--	--	--	--	--	--	--	--	<500	9.2	0	0	0	14.7	0	0	0	8.7	0	0	20	20.9	0	0	80	6.4	0	0
	TW-6	--	--	--	--	--	--	--	--	<500	16.0	0	0	0	15.3	0	0	0	16.0	0	0	210	19.4	0	0	5	16.6	0	0
	TW-8 <sup>Note 3</sup>	--	--	--	--	--	--	--	--	<500	14.3	75	0	65	18.3	0	0	400	4.4	44	0	260	16.5	44	0	110	3.1	31	0
	TW-10	--	--	--	--	--	--	--	--	<500	20.8	0	0	20	20.9	0	0	0	20.1	0	0	220	20.9	0	0	10	19.2	0	0
	TW-12 <sup>Note 3</sup>	--	--	--	--	--	--	--	--	<500	11.8	0	0	55	12.2	0	0	55	14.0	0	0	220	20.9	0	0	5	19.6	0	0

**Notes:**

1. GZA injected 67,000 gallons of 9% EVO solution along north-south oriented transects across the Site from July 23 to August 6, 2019. See the May 7, 2020 ERD Injection Documentation and Results Report for further details of the injections.
2. Field measurements were recorded with an RKI Eagle 4-gas landfill meter except for the November 11, 2019 and rounds after the May 5, 2020 measurement round when a MultiRae Lite was used. With the MultiRae instrument, the methane readings were displayed in % LEL (Lower Explosive Limit) and were converted to provided in parts per million (ppm) in the table.
3. Vapor Probes VP-1 and VP-3 and monitoring wells TW-3, TW-8, TW-12 and MW-21 are screened within or just above the injection zone.
4. CH<sub>4</sub> = methane. O<sub>2</sub> = Oxygen. CO<sub>2</sub> = carbon dioxide. H<sub>2</sub>S=hydrogen sulfide.
5. "--" = parameter not measured.
6. % = percent. ppm = parts per million.



**TABLE 3  
SOIL VAPOR MONITORING RESULTS  
1302 East Monroe Street  
Goshen, Indiana**

Sample Location	May 5, 2020				August 29, 2020				March 11, 2021				December 13, 2021				September 2, 2022				
	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	CH <sub>4</sub>	O <sub>2</sub>	CO	H <sub>2</sub> S	
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Vapor Probes	VP-1 <sup>Note 3</sup>	9,250	10.4	0	0	>50,000	7.1	0	0	>50,000	0	0	4.3	<500	20.9	0	0	>50,000	0.0	4	2.2
	VP-2	0	18.4	0	0	15	17.1	0	0	<500	20.9	0	0	<500	20.1	0	0	<500	20.9	0	0
	VP-3	100	17.9	0	0	180	17.5	0	0	<500	20.9	0	0	<500	18.9	0	0	<500	20.5	0	0
	VP-4	15	17.7	0	0	15	17.2	0	0	<500	17.1	0	0	<500	17.0	0	0	20,000	18.6	0	0
	VP-5	30	18.6	0	0	15	17.4	0	0	<500	20.9	0	0	<500	16.6	0	0	<500	20.9	0	0
	VP-6	5	17.0	0	0	95	14.5	0	0	<500	16.1	0	0	<500	18.9	0	0	1,500	13.6	0	0
	VP-7	0	13.2	0	0	25	2.4	0	0	<500	9.7	0	0	<500	10.8	0	0	<500	10.6	0	0
	VP-8	40	16.8	0	0	980	11.5	33	0	7,500	8.4	0	0	<500	14.5	0	0	<500	17.0	0	0
Monitoring Wells	MW-21 <sup>Note 3</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TW-3 <sup>Note 3</sup>	1,400	13.9	0	0	>50,000	0.6	30	0	>50,000	8.0	39	0	>50,000	1.2	0	0	>50,000	8.1	23	0
	TW-4	50	8.6	0	0	40	4.7	0	0	<500	10.8	5	0	<500	2.2	0	0	2,000	14.3	0	0
	TW-6	260	16.6	0	0	5,900	13.9	0	0	16,500	17.9	0	0	>50,000	11.1	0	0	<500	20.9	0	0
	TW-8 <sup>Note 3</sup>	390	4.1	30	0	150	2.1	0.0	0	4,500	6.4	0	0	45,000	6.4	0	0	<500	20.9	0	0
	TW-10	15	20.9	0	0	0	17.1	0.0	0	<500	20.8	0	0	<500	20.9	0	0	<500	20.9	0	0
	TW-12 <sup>Note 3</sup>	30	20.9	0	0	25	15.7	0	0	<500	20.5	0	0	<500	7.0	0	0	<500	20.9	0	0

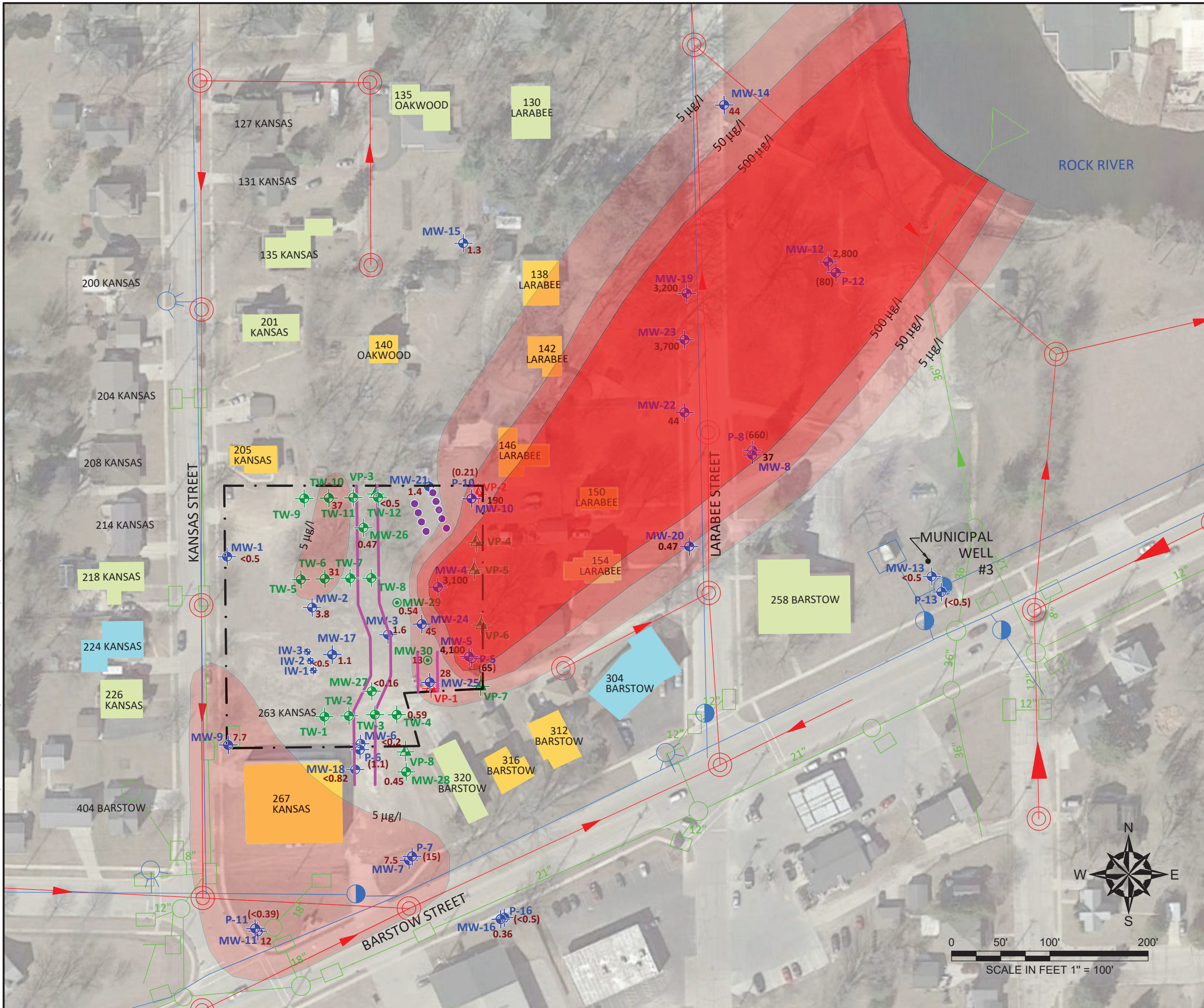
**Notes:**

1. GZA injected 67,000 gallons of 9% EVO solution along north-south oriented transects across the Site from July 23 to August 6, 2019. See the May 7, 2020 ERD Injection Documentation and Results Report for further details of the injections.
2. Field measurements were recorded with an RKI Eagle 4-gas landfill meter except for the November 11, 2019 and rounds after the May 5, 2020 measurement round when a MultiRae Lite was used. With the MultiRae instrument, the methane readings were displayed in % LEL (Lower Explosive Limit) and were converted to provided in parts per million (ppm) in the table.
3. Vapor Probes VP-1 and VP-3 and monitoring wells TW-3, TW-8, TW-12 and MW-21 are screened within or just above the injection zone.
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5. "--" = parameter not measured.
6. % = percent. ppm = parts per million.



## FIGURES





- LEGEND**
- APPROXIMATE SITE BOUNDARY
  - 2019 WATER SUPPLY WELLS
  - ⊕ MONITORING WELL LOCATION
  - ⊕ 2019 MONITORING WELLS
  - ⊕ 2019 SOIL BORINGS
  - ▲ VAPOR PROBE LOCATION
  - ▲ 2019 VAPOR PROBE
  - VI ASSESSMENT CONDUCTED AND VENTILATION SYSTEM INSTALLED
  - VI ASSESSMENT CONDUCTED AND VENTILATION SYSTEM NOT INSTALLED
  - ACCESS DENIED FOR VI ASSESSMENT OR NO RESPONSE
  - UTILITIES - STORM SEWER
  - UTILITIES - SANITARY SEWER
  - UTILITIES - WATER MAIN
  - 2019 INJECTION PROFILES
  - 2017 PILOT TEST INJECTION BORING LOCATION

- NOTES**
1. ALL BUILDINGS ON THE SUBJECT PROPERTY AT 263 KANSAS STREET HAVE BEEN REMOVED.
  2. THE BASEMAP WAS OBTAINED THROUGH USE OF THE LOCAL COUNTY ONLINE GIS MAPPING TOOL. THE PROGRAM NOTES THAT ALL PROPERTY BOUNDARIES ARE NOT SURVEYED AND ARE ONLY APPROXIMATE REPRESENTATIONS OF ACTUAL BOUNDARIES.
  3. THE USE OF AERIAL PHOTOGRAPHY CAN OFTEN MAKE BUILDINGS AND OTHER SITE FEATURES APPEAR TO BE OVERLAPPING AND DISTORTED WHEN OVERLAID WITH ACTUAL SITE FEATURES.

NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

263 KANSAS STREET  
HORICON, WISCONSIN

**TCE ISOCONCENTRATION MAP  
AUGUST 2022**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:
PROJ MGR: BGF	REVIEWED BY: JCO
DESIGNED BY: ERS	DRAWN BY: PLR
DATE: 4/21/2020	PROJECT NO. 20.0153134.30
CHECKED BY: BGF	SCALE: see above
FIG 1	REVISION NO.
SHEET NO.	







## **ATTACHMENT 1**

### **Limitations**



## LIMITATIONS

### STANDARD OF CARE

1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state, or federal agency.
3. In conducting our work, GZA relied upon certain information made available by public agencies, Client, and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

### SUBSURFACE CONDITIONS

4. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this Report. Fluctuations in the level of the groundwater, however, occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

### COMPLIANCE WITH CODES AND REGULATIONS

5. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our Scope of Work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties are beyond our control.

### SCREENING AND ANALYTICAL TESTING

6. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the Report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment, and/or air. Future Site activities and uses may result in a requirement for additional testing.
7. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
8. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological, or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

### INTERPRETATION OF DATA

9. Our opinions are based on available information, as described in the Report, and on our professional judgment. Additional observations made over time and/or space may not support the opinions provided in the Report.



#### **ADDITIONAL INFORMATION**

10. In the event that the Client or others authorized to use this Report obtain additional information on environmental or hazardous waste issues at the Site not contained in this Report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this Report.

#### **ADDITIONAL SERVICES**

11. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/redevelopment at the Site. This will allow us the opportunity to:
  - i) observe conditions and compliance with our design concepts and opinions;
  - ii) allow for changes in the event that conditions are other than anticipated;
  - iii) provide modifications to our design; and
  - iv) assess the consequences of changes in technologies and/or regulations.



**ATTACHMENT 2**

**Groundwater Field Sampling Forms**

























GROUNDWATER MONITORING WELL
LOW FLOW SAMPLING LOG

WELL NO: MW-7 PROJECT NO: 20.0153134 DATE: 9-2-22

PROJECT NAME: Former Gardner Manufacturing

LOCATION: Horicon, WI

SAMPLING PERSONNEL: Ainsworth Martin

WEATHER: 75° , partly cloudy

WELL DATA:

Well Depth: 21.4 Screen Length: Well Casing Diameter and Type: 2" PVC

Static Water Level: 12.66 Time: 1253 Measuring Point: Top of Riser

SAMPLING DATA:

Sampling Device: Bailer/Peristaltic Pump/Grundfos Pump Pump Intake Depth: ~ 18'

SAMPLING LOG:

Pump Start Time: 1254

Table with 10 columns: Time (24 hr), pH (s.u.), Temp (°C), Cond. (mS/cm), Dis. Ox. (mg/L), Turb. (ntu), ORP (mV), Pump Rate (mL/min), Water Level (feet), Notes. Contains data from 12:57 to 13:15.







































### GROUNDWATER MONITORING WELL LOW FLOW SAMPLING LOG

WELL NO: MW-15 PROJECT NO: 20.0153134 DATE: 9-1-22

PROJECT NAME: Former Gardner Manufacturing

LOCATION: Horicon, WI

SAMPLING PERSONNEL: Ainsworth marm

WEATHER: 80°, Sunny

**WELL DATA:**

Well Depth: 37.70 Screen Length: \_\_\_\_\_

Well Casing Diameter and Type: 2" pvc

Static Water Level: 31.82 Time: 1008

Measuring Point: Top of Riser

**SAMPLING DATA:**

Sampling Device: Baile/Peristaltic Pump/Grundfos Pump

Pump Intake Depth: NA

**SAMPLING LOG:**

Pump Start Time: NA

Time (24 hr)	pH (s.u.)	Temp (°C)	Cond. (mS/cm)	Dis. Ox. (mg/L)	Turb. (ntu)	ORP (mV)	Pump Rate (mL/min)	Water Level (feet)	Notes
1016	8.39	15.12	0.884	8.06	442	43	1 gal <del>NA</del>	NA	brown water
1020	8.08	13.22	0.915	7.42	533	54	2 gal	NA	
1023	8.05	12.30	0.948	7.62	422	52	3 gal	NA	
1026	7.95	12.40	0.939	6.79	387	52	4.5 gal	NA	purged ~ 4.5 gal.
									sampled @ 1035
									VOCs

1 well volume ≈ 1.0 gallons

























































GROUNDWATER MONITORING WELL
LOW FLOW SAMPLING LOG

WELL NO: TW-10 PROJECT NO: 20.0153134 DATE: 8.31.22

PROJECT NAME: Former Gardner Manufacturing

LOCATION: Horicon, WI

SAMPLING PERSONNEL: Ainsworth

WEATHER: SUNNY 80°

WELL DATA:

Well Depth: Screen Length: 10' Well Casing Diameter and Type: 1" PVC

Static Water Level: 26.28 Time: 1156 Measuring Point: Top of Riser

SAMPLING DATA:

Sampling Device: Bailer/Peristaltic Pump/Grundfos Pump Pump Intake Depth:

SAMPLING LOG:

Pump Start Time: 1157

Table with 10 columns: Time (24 hr), pH (s.u.), Temp (°C), Cond. (mS/cm), Dis. Ox. (mg/L), Turb. (ntu), ORP (mV), Pump Rate (mL/min), Water Level (feet), Notes. Contains handwritten data for times 1200 through 1216.





**ATTACHMENT 3**

**Groundwater Laboratory Analytical Reports and Chain-of-Custody Documentation**

## ANALYTICAL REPORT

Eurofins Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-221564-1  
Client Project/Site: Former Gardner, Horicon

For:  
GZA GeoEnvironmental, Inc.  
17975 W Sarah Lane, Suite 100  
Brookfield, Wisconsin 53045

Attn: Bernard Fenelon



Authorized for release by:  
9/15/2022 7:38:10 AM

Sandie Fredrick, Project Manager II  
(920)261-1660  
[Sandra.Fredrick@et.eurofinsus.com](mailto:Sandra.Fredrick@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.





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# Case Narrative

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

---

## Job ID: 500-221564-1

---

### Laboratory: Eurofins Chicago

#### Narrative

---

#### Job Narrative 500-221564-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/31/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

#### Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC) Sample #3 "MW-27" one voa vial for MEE labeled as "MW-29" Container had matching time of 1155. Logged as "MW-27". Sample #8 "MW-28" one voa for TOC labeled as "MW-30". Container had matching time of 0847. Label as "MW-28"

#### GC/MS VOA

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (500-221564-7), MW-25 (500-221564-9), MW-30 (500-221564-10), MW-24 (500-221564-11) and MW-4 (500-221564-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-27 (500-221564-3), MW-3 (500-221564-4), MW-6 (500-221564-5), P-6 (500-221564-6), MW-18 (500-221564-7), MW-28 (500-221564-8), MW-25 (500-221564-9), MW-30 (500-221564-10), MW-24 (500-221564-11), MW-29 (500-221564-12), MW-26 (500-221564-13) and MW-4 (500-221564-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-2

## Lab Sample ID: 500-221564-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichloropropane	3.0		2.0	0.41	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.0		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	59		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.1		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	3.8		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: IW-2

## Lab Sample ID: 500-221564-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichloropropane	1.2	J	2.0	0.41	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.90	J	1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.9		1.0	0.41	ug/L	1		8260B	Total/NA
Vinyl chloride	0.36	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-27

## Lab Sample ID: 500-221564-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.21	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	0.55	J	1.0	0.51	ug/L	1		8260B	Total/NA
Methane - DL	12000		440	110	ug/L	110		RSK-175	Total/NA
Arsenic	8.6		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	31000		100	47	ug/L	1		6020A	Dissolved
Sulfate	0.36		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	13		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-3

## Lab Sample ID: 500-221564-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.9		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	1.6		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.1		1.0	0.20	ug/L	1		8260B	Total/NA
Methane - DL	6600		350	88	ug/L	88		RSK-175	Total/NA
Arsenic	16		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	26000		100	47	ug/L	1		6020A	Dissolved
Sulfate	2.0	F1	2.0	0.95	mg/L	10		300.0	Total/NA
TOC Dup	71		5.0	2.4	mg/L	5		9060A	Total/NA

## Client Sample ID: MW-6

## Lab Sample ID: 500-221564-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.39	J	0.50	0.15	ug/L	1		8260B	Total/NA
Ethane	30	J	83	17	ug/L	11		RSK-175	Total/NA
Methane - DL	15000		350	88	ug/L	88		RSK-175	Total/NA
Arsenic	14		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	38000		100	47	ug/L	1		6020A	Dissolved
Sulfate	8.1		1.0	0.48	mg/L	5		300.0	Total/NA
TOC Dup	20		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: P-6

## Lab Sample ID: 500-221564-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.3		1.0	0.39	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: P-6 (Continued)

## Lab Sample ID: 500-221564-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.79		0.50	0.15	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	140		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.1		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	1.1		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	92		1.0	0.20	ug/L	1		8260B	Total/NA
Ethane	3.0	J	7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	35		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	600		44	11	ug/L	11		RSK-175	Total/NA
Arsenic	1.7		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	5400		100	47	ug/L	1		6020A	Dissolved
Sulfate	42		4.0	1.9	mg/L	20		300.0	Total/NA
TOC Dup	2.1		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-18

## Lab Sample ID: 500-221564-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	17		5.0	1.8	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	9.0		5.0	1.3	ug/L	5		8260B	Total/NA
Isopropylbenzene	96		5.0	1.9	ug/L	5		8260B	Total/NA
N-Propylbenzene	20		5.0	2.1	ug/L	5		8260B	Total/NA
p-Isopropyltoluene	1.9	J	5.0	1.8	ug/L	5		8260B	Total/NA
Toluene	5.3		2.5	0.76	ug/L	5		8260B	Total/NA
Ethylbenzene - DL	1200		25	9.2	ug/L	50		8260B	Total/NA
Xylenes, Total - DL	2200		50	11	ug/L	50		8260B	Total/NA
Methane	8300		88	22	ug/L	22		RSK-175	Total/NA
Arsenic	44		1.0	0.23	ug/L	1		6020A	Dissolved
Chromium	2.7	J	5.0	1.1	ug/L	1		6020A	Dissolved
Iron	25000		100	47	ug/L	1		6020A	Dissolved
Sulfate	71		10	4.8	mg/L	50		300.0	Total/NA
TOC Dup	16		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-28

## Lab Sample ID: 500-221564-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.28	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	2.5		1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.83	J	1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	0.45	J	0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	0.74	J	1.0	0.20	ug/L	1		8260B	Total/NA
Ethane	150		83	17	ug/L	11		RSK-175	Total/NA
Methane - DL	12000		350	88	ug/L	88		RSK-175	Total/NA
Arsenic	16		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	33000		100	47	ug/L	1		6020A	Dissolved
Sulfate	16		0.40	0.19	mg/L	2		300.0	Total/NA
TOC Dup	14		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-25

## Lab Sample ID: 500-221564-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.1		5.0	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene	6.0		5.0	1.8	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	2.1	J	5.0	1.3	ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-25 (Continued)

## Lab Sample ID: 500-221564-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.75	J	2.5	0.73	ug/L	5		8260B	Total/NA
Ethylbenzene	74		2.5	0.92	ug/L	5		8260B	Total/NA
Isopropylbenzene	3.8	J	5.0	1.9	ug/L	5		8260B	Total/NA
Naphthalene	3.3	J	5.0	1.7	ug/L	5		8260B	Total/NA
Toluene	160		2.5	0.76	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	22		5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	28		2.5	0.82	ug/L	5		8260B	Total/NA
Xylenes, Total	240		5.0	1.1	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	3100		50	20	ug/L	50		8260B	Total/NA
Vinyl chloride - DL	1000		50	10	ug/L	50		8260B	Total/NA
Methane	5100		180	44	ug/L	44		RSK-175	Total/NA
Ethene	190	J	310	66	ug/L	44		RSK-175	Total/NA
Arsenic	7.6		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	59000		100	47	ug/L	1		6020A	Dissolved
TOC Dup	440		20	9.4	mg/L	20		9060A	Total/NA

## Client Sample ID: MW-30

## Lab Sample ID: 500-221564-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21		10	2.9	ug/L	20		8260B	Total/NA
cis-1,2-Dichloroethene	3100		20	8.2	ug/L	20		8260B	Total/NA
trans-1,2-Dichloroethene	22		20	7.0	ug/L	20		8260B	Total/NA
Trichloroethene	13		10	3.3	ug/L	20		8260B	Total/NA
Vinyl chloride - DL	5800		200	41	ug/L	200		8260B	Total/NA
Ethane	170		83	17	ug/L	11		RSK-175	Total/NA
Ethene	1800		77	17	ug/L	11		RSK-175	Total/NA
Methane - DL	9500		350	88	ug/L	88		RSK-175	Total/NA
Arsenic	25		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	22000		100	47	ug/L	1		6020A	Dissolved
Sulfate	4.5	F1	1.0	0.48	mg/L	5		300.0	Total/NA
TOC Dup	69		5.0	2.4	mg/L	5		9060A	Total/NA

## Client Sample ID: MW-24

## Lab Sample ID: 500-221564-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.8		5.0	2.0	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	170		5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	45		2.5	0.82	ug/L	5		8260B	Total/NA
Vinyl chloride	390		5.0	1.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1700		50	20	ug/L	50		8260B	Total/NA
Ethane	90		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	180		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	3400		88	22	ug/L	22		RSK-175	Total/NA
Arsenic	8.8		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	11000		100	47	ug/L	1		6020A	Dissolved
Sulfate	1.1		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	19		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-29

## Lab Sample ID: 500-221564-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.84	J	1.0	0.39	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-29 (Continued)

## Lab Sample ID: 500-221564-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.40	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	1.0		1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	38		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	30		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	0.54		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	150		1.0	0.20	ug/L	1		8260B	Total/NA
Ethane	220		83	17	ug/L	11		RSK-175	Total/NA
Ethene	30	J	77	17	ug/L	11		RSK-175	Total/NA
Methane - DL	10000		350	88	ug/L	88		RSK-175	Total/NA
Iron	2400		100	47	ug/L	1		6020A	Dissolved
Sulfate	3.5		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	63		5.0	2.4	mg/L	5		9060A	Total/NA

## Client Sample ID: MW-26

## Lab Sample ID: 500-221564-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	1.8		1.0	0.51	ug/L	1		8260B	Total/NA
Trichloroethene	0.47	J	0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.1		1.0	0.20	ug/L	1		8260B	Total/NA
Methane - DL	18000		350	88	ug/L	88		RSK-175	Total/NA
Arsenic	16		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	47000		100	47	ug/L	1		6020A	Dissolved
Sulfate	7.8		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	24		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-4

## Lab Sample ID: 500-221564-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1600		10	4.1	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	30		10	3.5	ug/L	10		8260B	Total/NA
Vinyl chloride	1000		10	2.0	ug/L	10		8260B	Total/NA
Trichloroethene - DL	3100		50	16	ug/L	100		8260B	Total/NA
Ethane	14		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ethene	460		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	4600		180	44	ug/L	44		RSK-175	Total/NA
Arsenic	1.0		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	390		100	47	ug/L	1		6020A	Dissolved
Sulfate	9.8		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	3.4		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: TRIP BLANK

## Lab Sample ID: 500-221564-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6020A	Metals (ICP/MS)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
9060A	Organic Carbon, Total (TOC)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221564-1	MW-2	Water	08/29/22 10:52	08/31/22 09:30
500-221564-2	IW-2	Water	08/29/22 11:20	08/31/22 09:30
500-221564-3	MW-27	Water	08/29/22 11:55	08/31/22 09:30
500-221564-4	MW-3	Water	08/29/22 12:51	08/31/22 09:30
500-221564-5	MW-6	Water	08/29/22 13:48	08/31/22 09:30
500-221564-6	P-6	Water	08/29/22 14:33	08/31/22 09:30
500-221564-7	MW-18	Water	08/29/22 15:08	08/31/22 09:30
500-221564-8	MW-28	Water	08/30/22 08:47	08/31/22 09:30
500-221564-9	MW-25	Water	08/30/22 09:27	08/31/22 09:30
500-221564-10	MW-30	Water	08/30/22 10:39	08/31/22 09:30
500-221564-11	MW-24	Water	08/30/22 11:31	08/31/22 09:30
500-221564-12	MW-29	Water	08/30/22 12:22	08/31/22 09:30
500-221564-13	MW-26	Water	08/30/22 14:06	08/31/22 09:30
500-221564-14	MW-4	Water	08/30/22 15:12	08/31/22 09:30
500-221564-15	TRIP BLANK	Water	08/30/22 00:00	08/31/22 09:30

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-2**

**Lab Sample ID: 500-221564-1**

**Date Collected: 08/29/22 10:52**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 16:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 16:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 16:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 16:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 16:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 16:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 16:56	1
<b>1,2,3-Trichloropropane</b>	<b>3.0</b>		2.0	0.41	ug/L			09/08/22 16:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 16:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 16:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 16:56	1
<b>1,2-Dichloroethane</b>	<b>1.0</b>		1.0	0.39	ug/L			09/08/22 16:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 16:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 16:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 16:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 16:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 16:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 16:56	1
Benzene	<0.15		0.50	0.15	ug/L			09/08/22 16:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 16:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 16:56	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 16:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 16:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 16:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 16:56	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 16:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 16:56	1
<b>cis-1,2-Dichloroethene</b>	<b>59</b>		1.0	0.41	ug/L			09/08/22 16:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 16:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 16:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 16:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 16:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 16:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 16:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 16:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 16:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 16:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 16:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-2**

**Lab Sample ID: 500-221564-1**

**Date Collected: 08/29/22 10:52**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 16:56	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 16:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 16:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 16:56	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 16:56	1
<b>trans-1,2-Dichloroethene</b>	<b>3.1</b>		1.0	0.35	ug/L			09/08/22 16:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 16:56	1
<b>Trichloroethene</b>	<b>3.8</b>		0.50	0.16	ug/L			09/08/22 16:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 16:56	1
<b>Vinyl chloride</b>	<b>1.3</b>		1.0	0.20	ug/L			09/08/22 16:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		09/08/22 16:56	1
4-Bromofluorobenzene (Surr)	108		72 - 124		09/08/22 16:56	1
Dibromofluoromethane	95		75 - 120		09/08/22 16:56	1
Toluene-d8 (Surr)	92		75 - 120		09/08/22 16:56	1



# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: IW-2**

**Lab Sample ID: 500-221564-2**

**Date Collected: 08/29/22 11:20**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 17:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 17:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 17:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 17:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 17:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 17:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 17:21	1
<b>1,2,3-Trichloropropane</b>	<b>1.2</b>	<b>J</b>	2.0	0.41	ug/L			09/08/22 17:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 17:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 17:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 17:21	1
<b>1,2-Dichloroethane</b>	<b>0.90</b>	<b>J</b>	1.0	0.39	ug/L			09/08/22 17:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 17:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 17:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 17:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 17:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 17:21	1
Benzene	<0.15		0.50	0.15	ug/L			09/08/22 17:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 17:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 17:21	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 17:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 17:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 17:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 17:21	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 17:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 17:21	1
<b>cis-1,2-Dichloroethene</b>	<b>2.9</b>		1.0	0.41	ug/L			09/08/22 17:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 17:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 17:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 17:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 17:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 17:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 17:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 17:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 17:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 17:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 17:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: IW-2**

**Lab Sample ID: 500-221564-2**

**Date Collected: 08/29/22 11:20**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:21	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 17:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 17:21	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 17:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/08/22 17:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 17:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/08/22 17:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 17:21	1
<b>Vinyl chloride</b>	<b>0.36</b>	<b>J</b>	1.0	0.20	ug/L			09/08/22 17:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		09/08/22 17:21	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/08/22 17:21	1
Dibromofluoromethane	94		75 - 120		09/08/22 17:21	1
Toluene-d8 (Surr)	92		75 - 120		09/08/22 17:21	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-27**

**Lab Sample ID: 500-221564-3**

**Date Collected: 08/29/22 11:55**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 17:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 17:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 17:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 17:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 17:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 17:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 17:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/08/22 17:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 17:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 17:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 17:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 17:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 17:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 17:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 17:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 17:45	1
<b>Benzene</b>	<b>0.21</b>	<b>J</b>	0.50	0.15	ug/L			09/08/22 17:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 17:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 17:45	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 17:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 17:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 17:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
<b>Chloroethane</b>	<b>0.55</b>	<b>J</b>	1.0	0.51	ug/L			09/08/22 17:45	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 17:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 17:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/08/22 17:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 17:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 17:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 17:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 17:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 17:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 17:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 17:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 17:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 17:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 17:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-27**

**Lab Sample ID: 500-221564-3**

**Date Collected: 08/29/22 11:55**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:45	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 17:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 17:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 17:45	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 17:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/08/22 17:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 17:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/08/22 17:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 17:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/08/22 17:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/08/22 17:45	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/08/22 17:45	1
Dibromofluoromethane	92		75 - 120		09/08/22 17:45	1
Toluene-d8 (Surr)	92		75 - 120		09/08/22 17:45	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<33		170	33	ug/L			09/05/22 16:23	22
Ethene	<33		150	33	ug/L			09/05/22 16:23	22

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>12000</b>		440	110	ug/L			09/05/22 22:02	110

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>8.6</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 22:31	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 22:31	1
<b>Iron</b>	<b>31000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 22:31	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>0.36</b>		0.20	0.095	mg/L			09/08/22 15:51	1
<b>TOC Dup</b>	<b>13</b>		1.0	0.47	mg/L			09/13/22 01:59	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-3**

**Lab Sample ID: 500-221564-4**

**Date Collected: 08/29/22 12:51**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 18:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 18:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 18:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 18:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 18:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 18:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 18:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/08/22 18:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 18:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 18:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 18:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 18:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 18:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 18:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 18:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 18:09	1
Benzene	<0.15		0.50	0.15	ug/L			09/08/22 18:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 18:09	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 18:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 18:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 18:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 18:09	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 18:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 18:09	1
<b>cis-1,2-Dichloroethene</b>	<b>6.9</b>		1.0	0.41	ug/L			09/08/22 18:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 18:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 18:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 18:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 18:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 18:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 18:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 18:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 18:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 18:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 18:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-3**

**Lab Sample ID: 500-221564-4**

**Date Collected: 08/29/22 12:51**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:09	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 18:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 18:09	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 18:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/08/22 18:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 18:09	1
<b>Trichloroethene</b>	<b>1.6</b>		0.50	0.16	ug/L			09/08/22 18:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:09	1
<b>Vinyl chloride</b>	<b>1.1</b>		1.0	0.20	ug/L			09/08/22 18:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 18:09	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				09/08/22 18:09	1
4-Bromofluorobenzene (Surr)	106		72 - 124				09/08/22 18:09	1
Dibromofluoromethane	93		75 - 120				09/08/22 18:09	1
Toluene-d8 (Surr)	93		75 - 120				09/08/22 18:09	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<17		83	17	ug/L			09/05/22 16:41	11
Ethene	<17		77	17	ug/L			09/05/22 16:41	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>6600</b>		350	88	ug/L			09/05/22 22:21	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 22:48	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 22:48	1
<b>Iron</b>	<b>26000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 22:48	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>2.0</b>	<b>F1</b>	2.0	0.95	mg/L			09/06/22 16:57	10
<b>TOC Dup</b>	<b>71</b>		5.0	2.4	mg/L			09/13/22 14:54	5

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-221564-5**

**Date Collected: 08/29/22 13:48**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 18:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 18:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 18:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 18:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 18:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 18:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 18:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/08/22 18:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 18:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 18:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 18:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 18:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 18:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 18:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 18:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 18:33	1
Benzene	<0.15		0.50	0.15	ug/L			09/08/22 18:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 18:33	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 18:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 18:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 18:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 18:33	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 18:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 18:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/08/22 18:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 18:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 18:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 18:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 18:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 18:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 18:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 18:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 18:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 18:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 18:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-221564-5**

**Date Collected: 08/29/22 13:48**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:33	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 18:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 18:33	1
<b>Toluene</b>	<b>0.39</b>	<b>J</b>	0.50	0.15	ug/L			09/08/22 18:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/08/22 18:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 18:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/08/22 18:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/08/22 18:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				09/08/22 18:33	1
4-Bromofluorobenzene (Surr)	110		72 - 124				09/08/22 18:33	1
Dibromofluoromethane	92		75 - 120				09/08/22 18:33	1
Toluene-d8 (Surr)	91		75 - 120				09/08/22 18:33	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>30</b>	<b>J</b>	83	17	ug/L			09/05/22 17:00	11
Ethene	<17		77	17	ug/L			09/05/22 17:00	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>15000</b>		350	88	ug/L			09/05/22 22:40	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>14</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 22:52	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 22:52	1
<b>Iron</b>	<b>38000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 22:52	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>8.1</b>		1.0	0.48	mg/L			09/06/22 18:05	5
<b>TOC Dup</b>	<b>20</b>		1.0	0.47	mg/L			09/13/22 02:37	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: P-6**

**Lab Sample ID: 500-221564-6**

Date Collected: 08/29/22 14:33

Matrix: Water

Date Received: 08/31/22 09:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 18:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 18:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 18:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 18:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 18:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 18:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 18:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/08/22 18:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 18:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 18:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 18:58	1
<b>1,2-Dichloroethane</b>	<b>2.3</b>		1.0	0.39	ug/L			09/08/22 18:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 18:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 18:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 18:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 18:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 18:58	1
<b>Benzene</b>	<b>0.79</b>		0.50	0.15	ug/L			09/08/22 18:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 18:58	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 18:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 18:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 18:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 18:58	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 18:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 18:58	1
<b>cis-1,2-Dichloroethene</b>	<b>140</b>		1.0	0.41	ug/L			09/08/22 18:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 18:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 18:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 18:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 18:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 18:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 18:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 18:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 18:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 18:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 18:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: P-6**

**Lab Sample ID: 500-221564-6**

Date Collected: 08/29/22 14:33

Matrix: Water

Date Received: 08/31/22 09:30

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:58	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 18:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 18:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 18:58	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 18:58	1
<b>trans-1,2-Dichloroethene</b>	<b>2.1</b>		1.0	0.35	ug/L			09/08/22 18:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 18:58	1
<b>Trichloroethene</b>	<b>1.1</b>		0.50	0.16	ug/L			09/08/22 18:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 18:58	1
<b>Vinyl chloride</b>	<b>92</b>		1.0	0.20	ug/L			09/08/22 18:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		09/08/22 18:58	1
4-Bromofluorobenzene (Surr)	108		72 - 124		09/08/22 18:58	1
Dibromofluoromethane	95		75 - 120		09/08/22 18:58	1
Toluene-d8 (Surr)	92		75 - 120		09/08/22 18:58	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>3.0</b>	<b>J</b>	7.5	1.5	ug/L			09/05/22 17:19	1
<b>Ethene</b>	<b>35</b>		7.0	1.5	ug/L			09/05/22 17:19	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>600</b>		44	11	ug/L			09/05/22 22:59	11

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.7</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 22:55	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 22:55	1
<b>Iron</b>	<b>5400</b>		100	47	ug/L		09/01/22 08:18	09/01/22 22:55	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>42</b>		4.0	1.9	mg/L			09/06/22 18:19	20
<b>TOC Dup</b>	<b>2.1</b>		1.0	0.47	mg/L			09/13/22 02:51	1



# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-18**

**Lab Sample ID: 500-221564-7**

**Date Collected: 08/29/22 15:08**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/08/22 19:22	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/08/22 19:22	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/08/22 19:22	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/08/22 19:22	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/08/22 19:22	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/08/22 19:22	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/08/22 19:22	5
<b>1,2,4-Trimethylbenzene</b>	<b>17</b>		5.0	1.8	ug/L			09/08/22 19:22	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/08/22 19:22	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/08/22 19:22	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/08/22 19:22	5
<b>1,3,5-Trimethylbenzene</b>	<b>9.0</b>		5.0	1.3	ug/L			09/08/22 19:22	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/08/22 19:22	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/08/22 19:22	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/08/22 19:22	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/08/22 19:22	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/08/22 19:22	5
Benzene	<0.73		2.5	0.73	ug/L			09/08/22 19:22	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/08/22 19:22	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/08/22 19:22	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
Bromoform	<2.4		5.0	2.4	ug/L			09/08/22 19:22	5
Bromomethane	<4.0		15	4.0	ug/L			09/08/22 19:22	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/08/22 19:22	5
Chloroform	<1.9		10	1.9	ug/L			09/08/22 19:22	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/08/22 19:22	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/08/22 19:22	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/08/22 19:22	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/08/22 19:22	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/08/22 19:22	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/08/22 19:22	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/08/22 19:22	5
<b>Isopropylbenzene</b>	<b>96</b>		5.0	1.9	ug/L			09/08/22 19:22	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
Methylene Chloride	<8.2		25	8.2	ug/L			09/08/22 19:22	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/08/22 19:22	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
<b>N-Propylbenzene</b>	<b>20</b>		5.0	2.1	ug/L			09/08/22 19:22	5
<b>p-Isopropyltoluene</b>	<b>1.9 J</b>		5.0	1.8	ug/L			09/08/22 19:22	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-18**

**Lab Sample ID: 500-221564-7**

**Date Collected: 08/29/22 15:08**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/08/22 19:22	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/08/22 19:22	5
<b>Toluene</b>	<b>5.3</b>		2.5	0.76	ug/L			09/08/22 19:22	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			09/08/22 19:22	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/08/22 19:22	5
Trichloroethene	<0.82		2.5	0.82	ug/L			09/08/22 19:22	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/08/22 19:22	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			09/08/22 19:22	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	110		75 - 126					09/08/22 19:22	5
4-Bromofluorobenzene (Surr)	108		72 - 124					09/08/22 19:22	5
Dibromofluoromethane	94		75 - 120					09/08/22 19:22	5
Toluene-d8 (Surr)	93		75 - 120					09/08/22 19:22	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethylbenzene</b>	<b>1200</b>		25	9.2	ug/L			09/08/22 19:46	50
<b>Xylenes, Total</b>	<b>2200</b>		50	11	ug/L			09/08/22 19:46	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	109		75 - 126					09/08/22 19:46	50
4-Bromofluorobenzene (Surr)	107		72 - 124					09/08/22 19:46	50
Dibromofluoromethane	93		75 - 120					09/08/22 19:46	50
Toluene-d8 (Surr)	92		75 - 120					09/08/22 19:46	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>8300</b>		88	22	ug/L			09/05/22 17:38	22
Ethane	<33		170	33	ug/L			09/05/22 17:38	22
Ethene	<33		150	33	ug/L			09/05/22 17:38	22

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>44</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:06	1
<b>Chromium</b>	<b>2.7</b>	J	5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:06	1
<b>Iron</b>	<b>25000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:06	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>71</b>		10	4.8	mg/L			09/06/22 18:33	50
<b>TOC Dup</b>	<b>16</b>		1.0	0.47	mg/L			09/13/22 03:03	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-28**

**Lab Sample ID: 500-221564-8**

**Date Collected: 08/30/22 08:47**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/09/22 16:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/09/22 16:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/09/22 16:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/09/22 16:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/09/22 16:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/09/22 16:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/09/22 16:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/09/22 16:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/09/22 16:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/09/22 16:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/09/22 16:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/09/22 16:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/09/22 16:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/09/22 16:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/09/22 16:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/09/22 16:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/09/22 16:08	1
<b>Benzene</b>	<b>0.28</b>	<b>J</b>	0.50	0.15	ug/L			09/09/22 16:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/09/22 16:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/09/22 16:08	1
Bromoform	<0.48		1.0	0.48	ug/L			09/09/22 16:08	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/09/22 16:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/09/22 16:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
<b>Chloroethane</b>	<b>2.5</b>		1.0	0.51	ug/L			09/09/22 16:08	1
Chloroform	<0.37		2.0	0.37	ug/L			09/09/22 16:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/09/22 16:08	1
<b>cis-1,2-Dichloroethene</b>	<b>0.83</b>	<b>J</b>	1.0	0.41	ug/L			09/09/22 16:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/09/22 16:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/09/22 16:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/09/22 16:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/09/22 16:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/09/22 16:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/09/22 16:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/09/22 16:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/09/22 16:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/09/22 16:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/09/22 16:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-28**

**Lab Sample ID: 500-221564-8**

**Date Collected: 08/30/22 08:47**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 16:08	1
Styrene	<0.39		1.0	0.39	ug/L			09/09/22 16:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 16:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/09/22 16:08	1
Toluene	<0.15		0.50	0.15	ug/L			09/09/22 16:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/09/22 16:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/09/22 16:08	1
<b>Trichloroethene</b>	<b>0.45</b>	<b>J</b>	0.50	0.16	ug/L			09/09/22 16:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/09/22 16:08	1
<b>Vinyl chloride</b>	<b>0.74</b>	<b>J</b>	1.0	0.20	ug/L			09/09/22 16:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/09/22 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/09/22 16:08	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/09/22 16:08	1
Dibromofluoromethane	91		75 - 120		09/09/22 16:08	1
Toluene-d8 (Surr)	91		75 - 120		09/09/22 16:08	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>150</b>		83	17	ug/L			09/05/22 17:57	11
Ethene	<17		77	17	ug/L			09/05/22 17:57	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>12000</b>		350	88	ug/L			09/05/22 23:17	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:09	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:09	1
<b>Iron</b>	<b>33000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>16</b>		0.40	0.19	mg/L			09/08/22 18:35	2
<b>TOC Dup</b>	<b>14</b>		1.0	0.47	mg/L			09/13/22 03:40	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-25**

**Lab Sample ID: 500-221564-9**

**Date Collected: 08/30/22 09:27**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/09/22 15:20	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
<b>1,1-Dichloroethene</b>	<b>5.1</b>		5.0	2.0	ug/L			09/09/22 15:20	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/09/22 15:20	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/09/22 15:20	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/09/22 15:20	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/09/22 15:20	5
<b>1,2,4-Trimethylbenzene</b>	<b>6.0</b>		5.0	1.8	ug/L			09/09/22 15:20	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/09/22 15:20	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/09/22 15:20	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
<b>1,3,5-Trimethylbenzene</b>	<b>2.1 J</b>		5.0	1.3	ug/L			09/09/22 15:20	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/09/22 15:20	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/09/22 15:20	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/09/22 15:20	5
<b>Benzene</b>	<b>0.75 J</b>		2.5	0.73	ug/L			09/09/22 15:20	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
Bromoform	<2.4		5.0	2.4	ug/L			09/09/22 15:20	5
Bromomethane	<4.0		15	4.0	ug/L			09/09/22 15:20	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/09/22 15:20	5
Chloroform	<1.9		10	1.9	ug/L			09/09/22 15:20	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/09/22 15:20	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/09/22 15:20	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/09/22 15:20	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/09/22 15:20	5
<b>Ethylbenzene</b>	<b>74</b>		2.5	0.92	ug/L			09/09/22 15:20	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/09/22 15:20	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/09/22 15:20	5
<b>Isopropylbenzene</b>	<b>3.8 J</b>		5.0	1.9	ug/L			09/09/22 15:20	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5
Methylene Chloride	<8.2		25	8.2	ug/L			09/09/22 15:20	5
<b>Naphthalene</b>	<b>3.3 J</b>		5.0	1.7	ug/L			09/09/22 15:20	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-25**

**Lab Sample ID: 500-221564-9**

**Date Collected: 08/30/22 09:27**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/09/22 15:20	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/09/22 15:20	5
<b>Toluene</b>	<b>160</b>		2.5	0.76	ug/L			09/09/22 15:20	5
<b>trans-1,2-Dichloroethene</b>	<b>22</b>		5.0	1.7	ug/L			09/09/22 15:20	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/09/22 15:20	5
<b>Trichloroethene</b>	<b>28</b>		2.5	0.82	ug/L			09/09/22 15:20	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/09/22 15:20	5
<b>Xylenes, Total</b>	<b>240</b>		5.0	1.1	ug/L			09/09/22 15:20	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	109		75 - 126					09/09/22 15:20	5
4-Bromofluorobenzene (Surr)	107		72 - 124					09/09/22 15:20	5
Dibromofluoromethane	92		75 - 120					09/09/22 15:20	5
Toluene-d8 (Surr)	91		75 - 120					09/09/22 15:20	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>3100</b>		50	20	ug/L			09/09/22 15:44	50
<b>Vinyl chloride</b>	<b>1000</b>		50	10	ug/L			09/09/22 15:44	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	107		75 - 126					09/09/22 15:44	50
4-Bromofluorobenzene (Surr)	105		72 - 124					09/09/22 15:44	50
Dibromofluoromethane	93		75 - 120					09/09/22 15:44	50
Toluene-d8 (Surr)	91		75 - 120					09/09/22 15:44	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>5100</b>		180	44	ug/L			09/05/22 18:16	44
Ethane	<66		330	66	ug/L			09/05/22 18:16	44
<b>Ethene</b>	<b>190 J</b>		310	66	ug/L			09/05/22 18:16	44

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>7.6</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:12	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:12	1
<b>Iron</b>	<b>59000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:12	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.095		0.20	0.095	mg/L			09/08/22 18:48	1
<b>TOC Dup</b>	<b>440</b>		20	9.4	mg/L			09/13/22 15:15	20

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-30**

**Lab Sample ID: 500-221564-10**

**Date Collected: 08/30/22 10:39**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<9.2		20	9.2	ug/L			09/09/22 16:33	20
1,1,1-Trichloroethane	<7.6		20	7.6	ug/L			09/09/22 16:33	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			09/09/22 16:33	20
1,1,2-Trichloroethane	<7.0		20	7.0	ug/L			09/09/22 16:33	20
1,1-Dichloroethane	<8.2		20	8.2	ug/L			09/09/22 16:33	20
1,1-Dichloroethene	<7.8		20	7.8	ug/L			09/09/22 16:33	20
1,1-Dichloropropene	<5.9		20	5.9	ug/L			09/09/22 16:33	20
1,2,3-Trichlorobenzene	<9.2		20	9.2	ug/L			09/09/22 16:33	20
1,2,3-Trichloropropane	<8.3		40	8.3	ug/L			09/09/22 16:33	20
1,2,4-Trichlorobenzene	<6.8		20	6.8	ug/L			09/09/22 16:33	20
1,2,4-Trimethylbenzene	<7.2		20	7.2	ug/L			09/09/22 16:33	20
1,2-Dibromo-3-Chloropropane	<40		100	40	ug/L			09/09/22 16:33	20
1,2-Dibromoethane	<7.7		20	7.7	ug/L			09/09/22 16:33	20
1,2-Dichlorobenzene	<6.7		20	6.7	ug/L			09/09/22 16:33	20
1,2-Dichloroethane	<7.8		20	7.8	ug/L			09/09/22 16:33	20
1,2-Dichloropropane	<8.6		20	8.6	ug/L			09/09/22 16:33	20
1,3,5-Trimethylbenzene	<5.1		20	5.1	ug/L			09/09/22 16:33	20
1,3-Dichlorobenzene	<8.0		20	8.0	ug/L			09/09/22 16:33	20
1,3-Dichloropropane	<7.2		20	7.2	ug/L			09/09/22 16:33	20
1,4-Dichlorobenzene	<7.3		20	7.3	ug/L			09/09/22 16:33	20
2,2-Dichloropropane	<8.9		20	8.9	ug/L			09/09/22 16:33	20
2-Chlorotoluene	<6.3		20	6.3	ug/L			09/09/22 16:33	20
4-Chlorotoluene	<7.0		20	7.0	ug/L			09/09/22 16:33	20
<b>Benzene</b>	<b>21</b>		10	2.9	ug/L			09/09/22 16:33	20
Bromobenzene	<7.1		20	7.1	ug/L			09/09/22 16:33	20
Bromochloromethane	<8.6		20	8.6	ug/L			09/09/22 16:33	20
Bromodichloromethane	<7.4		20	7.4	ug/L			09/09/22 16:33	20
Bromoform	<9.7		20	9.7	ug/L			09/09/22 16:33	20
Bromomethane	<16		60	16	ug/L			09/09/22 16:33	20
Carbon tetrachloride	<7.7		20	7.7	ug/L			09/09/22 16:33	20
Chlorobenzene	<7.7		20	7.7	ug/L			09/09/22 16:33	20
Chloroethane	<10		20	10	ug/L			09/09/22 16:33	20
Chloroform	<7.4		40	7.4	ug/L			09/09/22 16:33	20
Chloromethane	<6.4		20	6.4	ug/L			09/09/22 16:33	20
<b>cis-1,2-Dichloroethene</b>	<b>3100</b>		20	8.2	ug/L			09/09/22 16:33	20
cis-1,3-Dichloropropene	<8.3		20	8.3	ug/L			09/09/22 16:33	20
Dibromochloromethane	<9.8		20	9.8	ug/L			09/09/22 16:33	20
Dibromomethane	<5.4		20	5.4	ug/L			09/09/22 16:33	20
Dichlorodifluoromethane	<13		60	13	ug/L			09/09/22 16:33	20
Ethylbenzene	<3.7		10	3.7	ug/L			09/09/22 16:33	20
Hexachlorobutadiene	<8.9		20	8.9	ug/L			09/09/22 16:33	20
Isopropyl ether	<5.5		20	5.5	ug/L			09/09/22 16:33	20
Isopropylbenzene	<7.7		20	7.7	ug/L			09/09/22 16:33	20
Methyl tert-butyl ether	<7.9		20	7.9	ug/L			09/09/22 16:33	20
Methylene Chloride	<33		100	33	ug/L			09/09/22 16:33	20
Naphthalene	<6.7		20	6.7	ug/L			09/09/22 16:33	20
n-Butylbenzene	<7.8		20	7.8	ug/L			09/09/22 16:33	20
N-Propylbenzene	<8.3		20	8.3	ug/L			09/09/22 16:33	20
p-Isopropyltoluene	<7.2		20	7.2	ug/L			09/09/22 16:33	20

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-30**

**Lab Sample ID: 500-221564-10**

**Date Collected: 08/30/22 10:39**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<8.0		20	8.0	ug/L			09/09/22 16:33	20
Styrene	<7.7		20	7.7	ug/L			09/09/22 16:33	20
tert-Butylbenzene	<8.0		20	8.0	ug/L			09/09/22 16:33	20
Tetrachloroethene	<7.4		20	7.4	ug/L			09/09/22 16:33	20
Toluene	<3.0		10	3.0	ug/L			09/09/22 16:33	20
<b>trans-1,2-Dichloroethene</b>	<b>22</b>		20	7.0	ug/L			09/09/22 16:33	20
trans-1,3-Dichloropropene	<7.2		20	7.2	ug/L			09/09/22 16:33	20
<b>Trichloroethene</b>	<b>13</b>		10	3.3	ug/L			09/09/22 16:33	20
Trichlorofluoromethane	<8.5		20	8.5	ug/L			09/09/22 16:33	20
Xylenes, Total	<4.4		20	4.4	ug/L			09/09/22 16:33	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 16:33	20
4-Bromofluorobenzene (Surr)	104		72 - 124		09/09/22 16:33	20
Dibromofluoromethane	93		75 - 120		09/09/22 16:33	20
Toluene-d8 (Surr)	91		75 - 120		09/09/22 16:33	20

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Vinyl chloride</b>	<b>5800</b>		200	41	ug/L			09/09/22 16:57	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 16:57	200
4-Bromofluorobenzene (Surr)	105		72 - 124		09/09/22 16:57	200
Dibromofluoromethane	93		75 - 120		09/09/22 16:57	200
Toluene-d8 (Surr)	91		75 - 120		09/09/22 16:57	200

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>170</b>		83	17	ug/L			09/05/22 18:35	11
<b>Ethene</b>	<b>1800</b>		77	17	ug/L			09/05/22 18:35	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>9500</b>		350	88	ug/L			09/05/22 23:36	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>25</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:16	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:16	1
<b>Iron</b>	<b>22000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:16	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>4.5</b>	<b>F1</b>	1.0	0.48	mg/L			09/06/22 19:13	5
<b>TOC Dup</b>	<b>69</b>		5.0	2.4	mg/L			09/13/22 15:27	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-24**

**Lab Sample ID: 500-221564-11**

**Date Collected: 08/30/22 11:31**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/09/22 17:21	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
<b>1,1-Dichloroethene</b>	<b>5.8</b>		5.0	2.0	ug/L			09/09/22 17:21	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/09/22 17:21	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/09/22 17:21	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/09/22 17:21	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/09/22 17:21	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/09/22 17:21	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/09/22 17:21	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/09/22 17:21	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/09/22 17:21	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/09/22 17:21	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/09/22 17:21	5
Benzene	<0.73		2.5	0.73	ug/L			09/09/22 17:21	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
Bromoform	<2.4		5.0	2.4	ug/L			09/09/22 17:21	5
Bromomethane	<4.0		15	4.0	ug/L			09/09/22 17:21	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/09/22 17:21	5
Chloroform	<1.9		10	1.9	ug/L			09/09/22 17:21	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/09/22 17:21	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/09/22 17:21	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/09/22 17:21	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/09/22 17:21	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/09/22 17:21	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/09/22 17:21	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/09/22 17:21	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5
Methylene Chloride	<8.2		25	8.2	ug/L			09/09/22 17:21	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/09/22 17:21	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-24**

**Lab Sample ID: 500-221564-11**

**Date Collected: 08/30/22 11:31**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/09/22 17:21	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/09/22 17:21	5
Toluene	<0.76		2.5	0.76	ug/L			09/09/22 17:21	5
<b>trans-1,2-Dichloroethene</b>	<b>170</b>		5.0	1.7	ug/L			09/09/22 17:21	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/09/22 17:21	5
<b>Trichloroethene</b>	<b>45</b>		2.5	0.82	ug/L			09/09/22 17:21	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/09/22 17:21	5
<b>Vinyl chloride</b>	<b>390</b>		5.0	1.0	ug/L			09/09/22 17:21	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/09/22 17:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/09/22 17:21	5
4-Bromofluorobenzene (Surr)	105		72 - 124		09/09/22 17:21	5
Dibromofluoromethane	93		75 - 120		09/09/22 17:21	5
Toluene-d8 (Surr)	91		75 - 120		09/09/22 17:21	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>1700</b>		50	20	ug/L			09/09/22 17:45	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 17:45	50
4-Bromofluorobenzene (Surr)	106		72 - 124		09/09/22 17:45	50
Dibromofluoromethane	93		75 - 120		09/09/22 17:45	50
Toluene-d8 (Surr)	91		75 - 120		09/09/22 17:45	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>90</b>		7.5	1.5	ug/L			09/05/22 18:53	1
<b>Ethene</b>	<b>180</b>		7.0	1.5	ug/L			09/05/22 18:53	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>3400</b>		88	22	ug/L			09/05/22 23:55	22

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>8.8</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:19	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:19	1
<b>Iron</b>	<b>11000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:19	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>1.1</b>		0.20	0.095	mg/L			09/06/22 19:54	1
<b>TOC Dup</b>	<b>19</b>		1.0	0.47	mg/L			09/13/22 04:41	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-29**

**Lab Sample ID: 500-221564-12**

**Date Collected: 08/30/22 12:22**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/09/22 18:10	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/09/22 18:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/09/22 18:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/09/22 18:10	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/09/22 18:10	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/09/22 18:10	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/09/22 18:10	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/09/22 18:10	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/09/22 18:10	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/09/22 18:10	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/09/22 18:10	1
<b>1,2-Dichloroethane</b>	<b>0.84</b>	<b>J</b>	1.0	0.39	ug/L			09/09/22 18:10	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/09/22 18:10	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/09/22 18:10	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:10	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/09/22 18:10	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/09/22 18:10	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/09/22 18:10	1
<b>Benzene</b>	<b>0.40</b>	<b>J</b>	0.50	0.15	ug/L			09/09/22 18:10	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/09/22 18:10	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/09/22 18:10	1
Bromoform	<0.48		1.0	0.48	ug/L			09/09/22 18:10	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/09/22 18:10	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/09/22 18:10	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
<b>Chloroethane</b>	<b>1.0</b>		1.0	0.51	ug/L			09/09/22 18:10	1
Chloroform	<0.37		2.0	0.37	ug/L			09/09/22 18:10	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/09/22 18:10	1
<b>cis-1,2-Dichloroethene</b>	<b>38</b>		1.0	0.41	ug/L			09/09/22 18:10	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/09/22 18:10	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/09/22 18:10	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/09/22 18:10	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/09/22 18:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/09/22 18:10	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/09/22 18:10	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/09/22 18:10	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/09/22 18:10	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/09/22 18:10	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/09/22 18:10	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-29**

**Lab Sample ID: 500-221564-12**

Date Collected: 08/30/22 12:22

Matrix: Water

Date Received: 08/31/22 09:30

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:10	1
Styrene	<0.39		1.0	0.39	ug/L			09/09/22 18:10	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:10	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/09/22 18:10	1
Toluene	<0.15		0.50	0.15	ug/L			09/09/22 18:10	1
<b>trans-1,2-Dichloroethene</b>	<b>30</b>		1.0	0.35	ug/L			09/09/22 18:10	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/09/22 18:10	1
<b>Trichloroethene</b>	<b>0.54</b>		0.50	0.16	ug/L			09/09/22 18:10	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/09/22 18:10	1
<b>Vinyl chloride</b>	<b>150</b>		1.0	0.20	ug/L			09/09/22 18:10	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/09/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		09/09/22 18:10	1
4-Bromofluorobenzene (Surr)	105		72 - 124		09/09/22 18:10	1
Dibromofluoromethane	92		75 - 120		09/09/22 18:10	1
Toluene-d8 (Surr)	92		75 - 120		09/09/22 18:10	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>220</b>		83	17	ug/L			09/05/22 19:12	11
<b>Ethene</b>	<b>30</b>	J	77	17	ug/L			09/05/22 19:12	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>10000</b>		350	88	ug/L			09/06/22 00:14	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:23	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:23	1
<b>Iron</b>	<b>2400</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>3.5</b>		0.20	0.095	mg/L			09/06/22 20:35	1
<b>TOC Dup</b>	<b>63</b>		5.0	2.4	mg/L			09/13/22 15:38	5

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-26**

**Lab Sample ID: 500-221564-13**

**Date Collected: 08/30/22 14:06**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/09/22 18:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/09/22 18:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/09/22 18:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/09/22 18:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/09/22 18:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/09/22 18:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/09/22 18:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/09/22 18:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/09/22 18:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/09/22 18:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/09/22 18:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/09/22 18:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/09/22 18:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/09/22 18:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/09/22 18:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/09/22 18:34	1
Benzene	<0.15		0.50	0.15	ug/L			09/09/22 18:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/09/22 18:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/09/22 18:34	1
Bromoform	<0.48		1.0	0.48	ug/L			09/09/22 18:34	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/09/22 18:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/09/22 18:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
<b>Chloroethane</b>	<b>1.8</b>		1.0	0.51	ug/L			09/09/22 18:34	1
Chloroform	<0.37		2.0	0.37	ug/L			09/09/22 18:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/09/22 18:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/09/22 18:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/09/22 18:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/09/22 18:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/09/22 18:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/09/22 18:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/09/22 18:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/09/22 18:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/09/22 18:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/09/22 18:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/09/22 18:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/09/22 18:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-26**

**Lab Sample ID: 500-221564-13**

**Date Collected: 08/30/22 14:06**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:34	1
Styrene	<0.39		1.0	0.39	ug/L			09/09/22 18:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 18:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/09/22 18:34	1
Toluene	<0.15		0.50	0.15	ug/L			09/09/22 18:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/09/22 18:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/09/22 18:34	1
<b>Trichloroethene</b>	<b>0.47</b>	<b>J</b>	0.50	0.16	ug/L			09/09/22 18:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/09/22 18:34	1
<b>Vinyl chloride</b>	<b>1.1</b>		1.0	0.20	ug/L			09/09/22 18:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/09/22 18:34	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126				09/09/22 18:34	1
4-Bromofluorobenzene (Surr)	105		72 - 124				09/09/22 18:34	1
Dibromofluoromethane	93		75 - 120				09/09/22 18:34	1
Toluene-d8 (Surr)	90		75 - 120				09/09/22 18:34	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<17		83	17	ug/L			09/05/22 19:31	11
Ethene	<17		77	17	ug/L			09/05/22 19:31	11

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>18000</b>		350	88	ug/L			09/06/22 00:33	88

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>16</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:26	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:26	1
<b>Iron</b>	<b>47000</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>7.8</b>		0.20	0.095	mg/L			09/06/22 20:49	1
<b>TOC Dup</b>	<b>24</b>		1.0	0.47	mg/L			09/13/22 05:19	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-221564-14**

**Date Collected: 08/30/22 15:12**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.6		10	4.6	ug/L			09/09/22 18:58	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			09/09/22 18:58	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			09/09/22 18:58	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			09/09/22 18:58	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			09/09/22 18:58	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			09/09/22 18:58	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			09/09/22 18:58	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			09/09/22 18:58	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			09/09/22 18:58	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			09/09/22 18:58	10
1,2,4-Trimethylbenzene	<3.6		10	3.6	ug/L			09/09/22 18:58	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			09/09/22 18:58	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			09/09/22 18:58	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			09/09/22 18:58	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			09/09/22 18:58	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			09/09/22 18:58	10
1,3,5-Trimethylbenzene	<2.5		10	2.5	ug/L			09/09/22 18:58	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			09/09/22 18:58	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			09/09/22 18:58	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			09/09/22 18:58	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			09/09/22 18:58	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			09/09/22 18:58	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			09/09/22 18:58	10
Benzene	<1.5		5.0	1.5	ug/L			09/09/22 18:58	10
Bromobenzene	<3.6		10	3.6	ug/L			09/09/22 18:58	10
Bromochloromethane	<4.3		10	4.3	ug/L			09/09/22 18:58	10
Bromodichloromethane	<3.7		10	3.7	ug/L			09/09/22 18:58	10
Bromoform	<4.8		10	4.8	ug/L			09/09/22 18:58	10
Bromomethane	<8.0		30	8.0	ug/L			09/09/22 18:58	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			09/09/22 18:58	10
Chlorobenzene	<3.9		10	3.9	ug/L			09/09/22 18:58	10
Chloroethane	<5.1		10	5.1	ug/L			09/09/22 18:58	10
Chloroform	<3.7		20	3.7	ug/L			09/09/22 18:58	10
Chloromethane	<3.2		10	3.2	ug/L			09/09/22 18:58	10
<b>cis-1,2-Dichloroethene</b>	<b>1600</b>		10	4.1	ug/L			09/09/22 18:58	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			09/09/22 18:58	10
Dibromochloromethane	<4.9		10	4.9	ug/L			09/09/22 18:58	10
Dibromomethane	<2.7		10	2.7	ug/L			09/09/22 18:58	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			09/09/22 18:58	10
Ethylbenzene	<1.8		5.0	1.8	ug/L			09/09/22 18:58	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			09/09/22 18:58	10
Isopropyl ether	<2.8		10	2.8	ug/L			09/09/22 18:58	10
Isopropylbenzene	<3.9		10	3.9	ug/L			09/09/22 18:58	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			09/09/22 18:58	10
Methylene Chloride	<16		50	16	ug/L			09/09/22 18:58	10
Naphthalene	<3.4		10	3.4	ug/L			09/09/22 18:58	10
n-Butylbenzene	<3.9		10	3.9	ug/L			09/09/22 18:58	10
N-Propylbenzene	<4.1		10	4.1	ug/L			09/09/22 18:58	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			09/09/22 18:58	10

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-221564-14**

**Date Collected: 08/30/22 15:12**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<4.0		10	4.0	ug/L			09/09/22 18:58	10
Styrene	<3.9		10	3.9	ug/L			09/09/22 18:58	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			09/09/22 18:58	10
Tetrachloroethene	<3.7		10	3.7	ug/L			09/09/22 18:58	10
Toluene	<1.5		5.0	1.5	ug/L			09/09/22 18:58	10
<b>trans-1,2-Dichloroethene</b>	<b>30</b>		10	3.5	ug/L			09/09/22 18:58	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			09/09/22 18:58	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			09/09/22 18:58	10
<b>Vinyl chloride</b>	<b>1000</b>		10	2.0	ug/L			09/09/22 18:58	10
Xylenes, Total	<2.2		10	2.2	ug/L			09/09/22 18:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/09/22 18:58	10
4-Bromofluorobenzene (Surr)	105		72 - 124		09/09/22 18:58	10
Dibromofluoromethane	95		75 - 120		09/09/22 18:58	10
Toluene-d8 (Surr)	92		75 - 120		09/09/22 18:58	10

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>3100</b>		50	16	ug/L			09/09/22 19:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/09/22 19:22	100
4-Bromofluorobenzene (Surr)	104		72 - 124		09/09/22 19:22	100
Dibromofluoromethane	94		75 - 120		09/09/22 19:22	100
Toluene-d8 (Surr)	92		75 - 120		09/09/22 19:22	100

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>14</b>		7.5	1.5	ug/L			09/05/22 19:50	1
<b>Ethene</b>	<b>460</b>		7.0	1.5	ug/L			09/05/22 19:50	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>4600</b>		180	44	ug/L			09/06/22 00:52	44

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.0</b>		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 23:29	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 23:29	1
<b>Iron</b>	<b>390</b>		100	47	ug/L		09/01/22 08:18	09/01/22 23:29	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>9.8</b>		0.20	0.095	mg/L			09/06/22 21:30	1
<b>TOC Dup</b>	<b>3.4</b>		1.0	0.47	mg/L			09/13/22 05:33	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 500-221564-15**

**Date Collected: 08/30/22 00:00**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/09/22 19:46	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/09/22 19:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/09/22 19:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/09/22 19:46	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/09/22 19:46	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/09/22 19:46	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/09/22 19:46	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/09/22 19:46	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/09/22 19:46	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/09/22 19:46	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/09/22 19:46	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/09/22 19:46	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/09/22 19:46	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/09/22 19:46	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/09/22 19:46	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/09/22 19:46	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/09/22 19:46	1
Benzene	<0.15		0.50	0.15	ug/L			09/09/22 19:46	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/09/22 19:46	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/09/22 19:46	1
Bromoform	<0.48		1.0	0.48	ug/L			09/09/22 19:46	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/09/22 19:46	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/09/22 19:46	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/09/22 19:46	1
Chloroform	<0.37		2.0	0.37	ug/L			09/09/22 19:46	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/09/22 19:46	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/09/22 19:46	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/09/22 19:46	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/09/22 19:46	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/09/22 19:46	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/09/22 19:46	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/09/22 19:46	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/09/22 19:46	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/09/22 19:46	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/09/22 19:46	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/09/22 19:46	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/09/22 19:46	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 500-221564-15**

**Date Collected: 08/30/22 00:00**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 19:46	1
Styrene	<0.39		1.0	0.39	ug/L			09/09/22 19:46	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 19:46	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/09/22 19:46	1
Toluene	<0.15		0.50	0.15	ug/L			09/09/22 19:46	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/09/22 19:46	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/09/22 19:46	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/09/22 19:46	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/09/22 19:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/09/22 19:46	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/09/22 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 19:46	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/09/22 19:46	1
Dibromofluoromethane	92		75 - 120		09/09/22 19:46	1
Toluene-d8 (Surr)	91		75 - 120		09/09/22 19:46	1

# Definitions/Glossary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## GC/MS VOA

### Analysis Batch: 673599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-1	MW-2	Total/NA	Water	8260B	
500-221564-2	IW-2	Total/NA	Water	8260B	
500-221564-3	MW-27	Total/NA	Water	8260B	
500-221564-4	MW-3	Total/NA	Water	8260B	
500-221564-5	MW-6	Total/NA	Water	8260B	
500-221564-6	P-6	Total/NA	Water	8260B	
500-221564-7	MW-18	Total/NA	Water	8260B	
500-221564-7 - DL	MW-18	Total/NA	Water	8260B	
MB 500-673599/6	Method Blank	Total/NA	Water	8260B	
LCS 500-673599/4	Lab Control Sample	Total/NA	Water	8260B	
500-221564-1 MS	MW-2	Total/NA	Water	8260B	
500-221564-1 MSD	MW-2	Total/NA	Water	8260B	

### Analysis Batch: 673843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-8	MW-28	Total/NA	Water	8260B	
500-221564-9	MW-25	Total/NA	Water	8260B	
500-221564-9 - DL	MW-25	Total/NA	Water	8260B	
500-221564-10	MW-30	Total/NA	Water	8260B	
500-221564-10 - DL	MW-30	Total/NA	Water	8260B	
500-221564-11	MW-24	Total/NA	Water	8260B	
500-221564-11 - DL	MW-24	Total/NA	Water	8260B	
500-221564-12	MW-29	Total/NA	Water	8260B	
500-221564-13	MW-26	Total/NA	Water	8260B	
500-221564-14	MW-4	Total/NA	Water	8260B	
500-221564-14 - DL	MW-4	Total/NA	Water	8260B	
500-221564-15	TRIP BLANK	Total/NA	Water	8260B	
MB 500-673843/6	Method Blank	Total/NA	Water	8260B	
LCS 500-673843/8	Lab Control Sample	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 640278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3	MW-27	Total/NA	Water	RSK-175	
500-221564-3 - DL	MW-27	Total/NA	Water	RSK-175	
500-221564-4	MW-3	Total/NA	Water	RSK-175	
500-221564-4 - DL	MW-3	Total/NA	Water	RSK-175	
500-221564-5	MW-6	Total/NA	Water	RSK-175	
500-221564-5 - DL	MW-6	Total/NA	Water	RSK-175	
500-221564-6	P-6	Total/NA	Water	RSK-175	
500-221564-6 - DL	P-6	Total/NA	Water	RSK-175	
500-221564-7	MW-18	Total/NA	Water	RSK-175	
500-221564-8	MW-28	Total/NA	Water	RSK-175	
500-221564-8 - DL	MW-28	Total/NA	Water	RSK-175	
500-221564-9	MW-25	Total/NA	Water	RSK-175	
500-221564-10	MW-30	Total/NA	Water	RSK-175	
500-221564-10 - DL	MW-30	Total/NA	Water	RSK-175	
500-221564-11	MW-24	Total/NA	Water	RSK-175	
500-221564-11 - DL	MW-24	Total/NA	Water	RSK-175	
500-221564-12	MW-29	Total/NA	Water	RSK-175	

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# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## GC VOA (Continued)

### Analysis Batch: 640278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-12 - DL	MW-29	Total/NA	Water	RSK-175	
500-221564-13	MW-26	Total/NA	Water	RSK-175	
500-221564-13 - DL	MW-26	Total/NA	Water	RSK-175	
500-221564-14	MW-4	Total/NA	Water	RSK-175	
500-221564-14 - DL	MW-4	Total/NA	Water	RSK-175	
MB 480-640278/21	Method Blank	Total/NA	Water	RSK-175	
MB 480-640278/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-640278/22	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 480-640278/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-640278/23	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 480-640278/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

## Metals

### Prep Batch: 672693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3	MW-27	Dissolved	Water	3005A	
500-221564-4	MW-3	Dissolved	Water	3005A	
500-221564-5	MW-6	Dissolved	Water	3005A	
500-221564-6	P-6	Dissolved	Water	3005A	
500-221564-7	MW-18	Dissolved	Water	3005A	
500-221564-8	MW-28	Dissolved	Water	3005A	
500-221564-9	MW-25	Dissolved	Water	3005A	
500-221564-10	MW-30	Dissolved	Water	3005A	
500-221564-11	MW-24	Dissolved	Water	3005A	
500-221564-12	MW-29	Dissolved	Water	3005A	
500-221564-13	MW-26	Dissolved	Water	3005A	
500-221564-14	MW-4	Dissolved	Water	3005A	
MB 500-672693/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672693/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-221564-3 MS	MW-27	Dissolved	Water	3005A	
500-221564-3 MSD	MW-27	Dissolved	Water	3005A	
500-221564-3 DU	MW-27	Dissolved	Water	3005A	

### Analysis Batch: 673460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3	MW-27	Dissolved	Water	6020A	672693
500-221564-4	MW-3	Dissolved	Water	6020A	672693
500-221564-5	MW-6	Dissolved	Water	6020A	672693
500-221564-6	P-6	Dissolved	Water	6020A	672693
500-221564-7	MW-18	Dissolved	Water	6020A	672693
500-221564-8	MW-28	Dissolved	Water	6020A	672693
500-221564-9	MW-25	Dissolved	Water	6020A	672693
500-221564-10	MW-30	Dissolved	Water	6020A	672693
500-221564-11	MW-24	Dissolved	Water	6020A	672693
500-221564-12	MW-29	Dissolved	Water	6020A	672693
500-221564-13	MW-26	Dissolved	Water	6020A	672693
500-221564-14	MW-4	Dissolved	Water	6020A	672693
MB 500-672693/1-A	Method Blank	Total Recoverable	Water	6020A	672693
LCS 500-672693/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672693
500-221564-3 MS	MW-27	Dissolved	Water	6020A	672693

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# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Metals (Continued)

### Analysis Batch: 673460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3 MSD	MW-27	Dissolved	Water	6020A	672693
500-221564-3 DU	MW-27	Dissolved	Water	6020A	672693

## General Chemistry

### Analysis Batch: 673270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-14	MW-4	Total/NA	Water	300.0	
MB 500-673270/3	Method Blank	Total/NA	Water	300.0	
LCS 500-673270/4	Lab Control Sample	Total/NA	Water	300.0	
500-221564-14 MS	MW-4	Total/NA	Water	300.0	
500-221564-14 MSD	MW-4	Total/NA	Water	300.0	

### Analysis Batch: 673286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-4	MW-3	Total/NA	Water	300.0	
500-221564-5	MW-6	Total/NA	Water	300.0	
500-221564-6	P-6	Total/NA	Water	300.0	
500-221564-7	MW-18	Total/NA	Water	300.0	
500-221564-10	MW-30	Total/NA	Water	300.0	
500-221564-11	MW-24	Total/NA	Water	300.0	
500-221564-12	MW-29	Total/NA	Water	300.0	
500-221564-13	MW-26	Total/NA	Water	300.0	
MB 500-673286/3	Method Blank	Total/NA	Water	300.0	
LCS 500-673286/4	Lab Control Sample	Total/NA	Water	300.0	
500-221564-4 MS	MW-3	Total/NA	Water	300.0	
500-221564-4 MSD	MW-3	Total/NA	Water	300.0	
500-221564-10 MS	MW-30	Total/NA	Water	300.0	
500-221564-10 MSD	MW-30	Total/NA	Water	300.0	

### Analysis Batch: 673666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3	MW-27	Total/NA	Water	300.0	
500-221564-8	MW-28	Total/NA	Water	300.0	
500-221564-9	MW-25	Total/NA	Water	300.0	
MB 500-673666/3	Method Blank	Total/NA	Water	300.0	
LCS 500-673666/4	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 674324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-3	MW-27	Total/NA	Water	9060A	
500-221564-5	MW-6	Total/NA	Water	9060A	
500-221564-6	P-6	Total/NA	Water	9060A	
500-221564-7	MW-18	Total/NA	Water	9060A	
500-221564-8	MW-28	Total/NA	Water	9060A	
500-221564-11	MW-24	Total/NA	Water	9060A	
500-221564-13	MW-26	Total/NA	Water	9060A	
500-221564-14	MW-4	Total/NA	Water	9060A	
MB 500-674324/4	Method Blank	Total/NA	Water	9060A	
LCS 500-674324/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 500-674324/6	Lab Control Sample Dup	Total/NA	Water	9060A	

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# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## General Chemistry

### Analysis Batch: 674498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221564-4	MW-3	Total/NA	Water	9060A	
500-221564-9	MW-25	Total/NA	Water	9060A	
500-221564-10	MW-30	Total/NA	Water	9060A	
500-221564-12	MW-29	Total/NA	Water	9060A	
MB 500-674498/4	Method Blank	Total/NA	Water	9060A	
LCS 500-674498/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 500-674498/6	Lab Control Sample Dup	Total/NA	Water	9060A	

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# Surrogate Summary

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-221564-1	MW-2	108	108	95	92
500-221564-1 MS	MW-2	106	112	97	94
500-221564-1 MSD	MW-2	106	106	96	92
500-221564-2	IW-2	109	106	94	92
500-221564-3	MW-27	106	106	92	92
500-221564-4	MW-3	109	106	93	93
500-221564-5	MW-6	109	110	92	91
500-221564-6	P-6	109	108	95	92
500-221564-7	MW-18	110	108	94	93
500-221564-7 - DL	MW-18	109	107	93	92
500-221564-8	MW-28	106	104	91	91
500-221564-9	MW-25	109	107	92	91
500-221564-9 - DL	MW-25	107	105	93	91
500-221564-10	MW-30	105	104	93	91
500-221564-10 - DL	MW-30	105	105	93	91
500-221564-11	MW-24	106	105	93	91
500-221564-11 - DL	MW-24	105	106	93	91
500-221564-12	MW-29	103	105	92	92
500-221564-13	MW-26	107	105	93	90
500-221564-14	MW-4	106	105	95	92
500-221564-14 - DL	MW-4	106	104	94	92
500-221564-15	TRIP BLANK	105	106	92	91
LCS 500-673599/4	Lab Control Sample	102	104	93	94
LCS 500-673843/8	Lab Control Sample	102	105	94	90
MB 500-673599/6	Method Blank	105	104	90	92
MB 500-673843/6	Method Blank	105	102	92	91

### Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-673599/6**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/08/22 11:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/08/22 11:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/08/22 11:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/08/22 11:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/08/22 11:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/08/22 11:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/08/22 11:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/08/22 11:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/08/22 11:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/08/22 11:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/08/22 11:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/08/22 11:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/08/22 11:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/08/22 11:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/08/22 11:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/08/22 11:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/08/22 11:50	1
Benzene	<0.15		0.50	0.15	ug/L			09/08/22 11:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/08/22 11:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/08/22 11:50	1
Bromoform	<0.48		1.0	0.48	ug/L			09/08/22 11:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/08/22 11:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/08/22 11:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/08/22 11:50	1
Chloroform	<0.37		2.0	0.37	ug/L			09/08/22 11:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/08/22 11:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/08/22 11:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/08/22 11:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/08/22 11:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/08/22 11:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/08/22 11:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/08/22 11:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/08/22 11:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/08/22 11:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/08/22 11:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/08/22 11:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/08/22 11:50	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-673599/6**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 11:50	1
Styrene	<0.39		1.0	0.39	ug/L			09/08/22 11:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/08/22 11:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/08/22 11:50	1
Toluene	<0.15		0.50	0.15	ug/L			09/08/22 11:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/08/22 11:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/08/22 11:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/08/22 11:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/08/22 11:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/08/22 11:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/08/22 11:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/08/22 11:50	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/08/22 11:50	1
Dibromofluoromethane	90		75 - 120		09/08/22 11:50	1
Toluene-d8 (Surr)	92		75 - 120		09/08/22 11:50	1

**Lab Sample ID: LCS 500-673599/4**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	70 - 125
1,1,1,2-Tetrachloroethane	50.0	42.9		ug/L		86	62 - 140
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	71 - 130
1,1-Dichloroethane	50.0	47.5		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	42.7		ug/L		85	67 - 122
1,1-Dichloropropene	50.0	46.6		ug/L		93	70 - 121
1,2,3-Trichlorobenzene	50.0	44.4		ug/L		89	51 - 145
1,2,3-Trichloropropane	50.0	43.2		ug/L		86	50 - 133
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	57 - 137
1,2,4-Trimethylbenzene	50.0	45.1		ug/L		90	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.6		ug/L		73	56 - 123
1,2-Dibromoethane	50.0	41.9		ug/L		84	70 - 125
1,2-Dichlorobenzene	50.0	41.6		ug/L		83	70 - 125
1,2-Dichloroethane	50.0	49.6		ug/L		99	68 - 127
1,2-Dichloropropane	50.0	47.2		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	45.5		ug/L		91	70 - 123
1,3-Dichlorobenzene	50.0	43.1		ug/L		86	70 - 125
1,3-Dichloropropane	50.0	44.6		ug/L		89	62 - 136
1,4-Dichlorobenzene	50.0	42.2		ug/L		84	70 - 120
2,2-Dichloropropane	50.0	47.2		ug/L		94	58 - 139
2-Chlorotoluene	50.0	45.3		ug/L		91	70 - 125
4-Chlorotoluene	50.0	45.9		ug/L		92	68 - 124
Benzene	50.0	44.6		ug/L		89	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-673599/4**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	45.1		ug/L		90	70 - 122
Bromochloromethane	50.0	43.1		ug/L		86	65 - 122
Bromodichloromethane	50.0	43.7		ug/L		87	69 - 120
Bromoform	50.0	37.3		ug/L		75	56 - 132
Bromomethane	50.0	43.2		ug/L		86	40 - 152
Carbon tetrachloride	50.0	47.5		ug/L		95	59 - 133
Chlorobenzene	50.0	44.3		ug/L		89	70 - 120
Chloroethane	50.0	52.2		ug/L		104	48 - 136
Chloroform	50.0	48.3		ug/L		97	70 - 120
Chloromethane	50.0	49.2		ug/L		98	56 - 152
cis-1,2-Dichloroethene	50.0	43.8		ug/L		88	70 - 125
cis-1,3-Dichloropropene	50.0	43.5		ug/L		87	64 - 127
Dibromochloromethane	50.0	40.1		ug/L		80	68 - 125
Dibromomethane	50.0	42.0		ug/L		84	70 - 120
Dichlorodifluoromethane	50.0	55.9		ug/L		112	40 - 159
Ethylbenzene	50.0	42.6		ug/L		85	70 - 123
Hexachlorobutadiene	50.0	47.0		ug/L		94	51 - 150
Isopropylbenzene	50.0	45.6		ug/L		91	70 - 126
Methyl tert-butyl ether	50.0	44.7		ug/L		89	55 - 123
Methylene Chloride	50.0	40.8		ug/L		82	69 - 125
Naphthalene	50.0	42.0		ug/L		84	53 - 144
n-Butylbenzene	50.0	44.0		ug/L		88	68 - 125
N-Propylbenzene	50.0	45.6		ug/L		91	69 - 127
p-Isopropyltoluene	50.0	46.2		ug/L		92	70 - 125
sec-Butylbenzene	50.0	45.2		ug/L		90	70 - 123
Styrene	50.0	43.0		ug/L		86	70 - 120
tert-Butylbenzene	50.0	46.7		ug/L		93	70 - 121
Tetrachloroethene	50.0	44.3		ug/L		89	70 - 128
Toluene	50.0	45.7		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 125
trans-1,3-Dichloropropene	50.0	43.3		ug/L		87	62 - 128
Trichloroethene	50.0	46.3		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	52.3		ug/L		105	55 - 128
Vinyl chloride	50.0	46.2		ug/L		92	64 - 126
Xylenes, Total	100	87.1		ug/L		87	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
4-Bromofluorobenzene (Surr)	104		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

**Lab Sample ID: 500-221564-1 MS**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	43.5		ug/L		87	70 - 125

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-221564-1 MS

Matrix: Water

Analysis Batch: 673599

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.38		50.0	45.6		ug/L		91	70 - 125
1,1,1,2-Tetrachloroethane	<0.40		50.0	50.1		ug/L		100	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	46.7		ug/L		93	71 - 130
1,1-Dichloroethane	<0.41		50.0	46.8		ug/L		94	70 - 125
1,1-Dichloroethene	<0.39		50.0	41.5		ug/L		83	67 - 122
1,1-Dichloropropene	<0.30		50.0	44.3		ug/L		89	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	46.5		ug/L		93	51 - 145
1,2,3-Trichloropropane	3.0		50.0	53.1		ug/L		100	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	44.3		ug/L		89	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	46.6		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	44.7		ug/L		89	56 - 123
1,2-Dibromoethane	<0.39		50.0	43.0		ug/L		86	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	45.4		ug/L		91	70 - 125
1,2-Dichloroethane	1.0		50.0	52.1		ug/L		102	68 - 127
1,2-Dichloropropane	<0.43		50.0	47.0		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	47.6		ug/L		95	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	44.0		ug/L		88	70 - 125
1,3-Dichloropropane	<0.36		50.0	45.7		ug/L		91	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	42.6		ug/L		85	70 - 120
2,2-Dichloropropane	<0.44		50.0	40.9		ug/L		82	58 - 139
2-Chlorotoluene	<0.31		50.0	47.6		ug/L		95	70 - 125
4-Chlorotoluene	<0.35		50.0	46.5		ug/L		93	68 - 124
Benzene	<0.15		50.0	43.9		ug/L		88	70 - 120
Bromobenzene	<0.36		50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	<0.43		50.0	43.9		ug/L		88	65 - 122
Bromodichloromethane	<0.37		50.0	44.2		ug/L		88	69 - 120
Bromoform	<0.48		50.0	38.1		ug/L		76	56 - 132
Bromomethane	<0.80		50.0	34.1		ug/L		68	40 - 152
Carbon tetrachloride	<0.38		50.0	45.5		ug/L		91	59 - 133
Chlorobenzene	<0.39		50.0	43.5		ug/L		87	70 - 120
Chloroethane	<0.51		50.0	52.0		ug/L		104	48 - 136
Chloroform	<0.37		50.0	48.0		ug/L		96	70 - 120
Chloromethane	<0.32		50.0	45.9		ug/L		92	56 - 152
cis-1,2-Dichloroethene	59		50.0	101		ug/L		84	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	42.3		ug/L		85	64 - 127
Dibromochloromethane	<0.49		50.0	40.8		ug/L		82	68 - 125
Dibromomethane	<0.27		50.0	43.9		ug/L		88	70 - 120
Dichlorodifluoromethane	<0.67		50.0	50.5		ug/L		101	40 - 159
Ethylbenzene	<0.18		50.0	41.4		ug/L		83	70 - 123
Hexachlorobutadiene	<0.45		50.0	45.8		ug/L		92	51 - 150
Isopropylbenzene	<0.39		50.0	48.4		ug/L		97	70 - 126
Methyl tert-butyl ether	<0.39		50.0	46.8		ug/L		94	55 - 123
Methylene Chloride	<1.6		50.0	41.8		ug/L		84	69 - 125
Naphthalene	<0.34		50.0	50.0		ug/L		100	53 - 144
n-Butylbenzene	<0.39		50.0	39.0		ug/L		78	68 - 125
N-Propylbenzene	<0.41		50.0	45.6		ug/L		91	69 - 127
p-Isopropyltoluene	<0.36		50.0	45.7		ug/L		91	70 - 125
sec-Butylbenzene	<0.40		50.0	46.5		ug/L		93	70 - 123
Styrene	<0.39		50.0	42.2		ug/L		84	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-221564-1 MS**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
tert-Butylbenzene	<0.40		50.0	50.7		ug/L		101	70 - 121
Tetrachloroethene	<0.37		50.0	40.8		ug/L		82	70 - 128
Toluene	<0.15		50.0	44.5		ug/L		89	70 - 125
trans-1,2-Dichloroethene	3.1		50.0	43.4		ug/L		81	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	41.9		ug/L		84	62 - 128
Trichloroethene	3.8		50.0	48.5		ug/L		89	70 - 125
Trichlorofluoromethane	<0.43		50.0	51.9		ug/L		104	55 - 128
Vinyl chloride	1.3		50.0	46.9		ug/L		91	64 - 126
Xylenes, Total	<0.22		100	84.0		ug/L		84	70 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
4-Bromofluorobenzene (Surr)	112		72 - 124
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	94		75 - 120

**Lab Sample ID: 500-221564-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	40.7		ug/L		81	70 - 125	7	20
1,1,1-Trichloroethane	<0.38		50.0	43.1		ug/L		86	70 - 125	6	20
1,1,1,2-Tetrachloroethane	<0.40		50.0	44.9		ug/L		90	62 - 140	11	20
1,1,2-Trichloroethane	<0.35		50.0	43.6		ug/L		87	71 - 130	7	20
1,1-Dichloroethane	<0.41		50.0	44.1		ug/L		88	70 - 125	6	20
1,1-Dichloroethene	<0.39		50.0	39.1		ug/L		78	67 - 122	6	20
1,1-Dichloropropene	<0.30		50.0	42.5		ug/L		85	70 - 121	4	20
1,2,3-Trichlorobenzene	<0.46		50.0	43.4		ug/L		87	51 - 145	7	20
1,2,3-Trichloropropane	3.0		50.0	47.3		ug/L		89	50 - 133	12	20
1,2,4-Trichlorobenzene	<0.34		50.0	42.1		ug/L		84	57 - 137	5	20
1,2,4-Trimethylbenzene	<0.36		50.0	41.8		ug/L		84	70 - 123	11	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.2		ug/L		80	56 - 123	10	20
1,2-Dibromoethane	<0.39		50.0	41.1		ug/L		82	70 - 125	5	20
1,2-Dichlorobenzene	<0.33		50.0	41.4		ug/L		83	70 - 125	9	20
1,2-Dichloroethane	1.0		50.0	49.3		ug/L		96	68 - 127	6	20
1,2-Dichloropropane	<0.43		50.0	45.6		ug/L		91	67 - 130	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	42.3		ug/L		85	70 - 123	12	20
1,3-Dichlorobenzene	<0.40		50.0	40.4		ug/L		81	70 - 125	8	20
1,3-Dichloropropane	<0.36		50.0	43.3		ug/L		87	62 - 136	5	20
1,4-Dichlorobenzene	<0.36		50.0	39.3		ug/L		79	70 - 120	8	20
2,2-Dichloropropane	<0.44		50.0	37.9		ug/L		76	58 - 139	7	20
2-Chlorotoluene	<0.31		50.0	42.8		ug/L		86	70 - 125	11	20
4-Chlorotoluene	<0.35		50.0	42.5		ug/L		85	68 - 124	9	20
Benzene	<0.15		50.0	42.2		ug/L		84	70 - 120	4	20
Bromobenzene	<0.36		50.0	44.6		ug/L		89	70 - 122	10	20
Bromochloromethane	<0.43		50.0	41.3		ug/L		83	65 - 122	6	20
Bromodichloromethane	<0.37		50.0	42.2		ug/L		84	69 - 120	5	20

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-221564-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 673599**

**Client Sample ID: MW-2**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	35.9		ug/L		72	56 - 132	6	20
Bromomethane	<0.80		50.0	34.1		ug/L		68	40 - 152	0	20
Carbon tetrachloride	<0.38		50.0	43.3		ug/L		87	59 - 133	5	20
Chlorobenzene	<0.39		50.0	41.6		ug/L		83	70 - 120	5	20
Chloroethane	<0.51		50.0	47.6		ug/L		95	48 - 136	9	20
Chloroform	<0.37		50.0	45.5		ug/L		91	70 - 120	5	20
Chloromethane	<0.32		50.0	43.2		ug/L		86	56 - 152	6	20
cis-1,2-Dichloroethene	59		50.0	97.4		ug/L		76	70 - 125	4	20
cis-1,3-Dichloropropene	<0.42		50.0	39.9		ug/L		80	64 - 127	6	20
Dibromochloromethane	<0.49		50.0	39.1		ug/L		78	68 - 125	4	20
Dibromomethane	<0.27		50.0	42.4		ug/L		85	70 - 120	4	20
Dichlorodifluoromethane	<0.67		50.0	47.0		ug/L		94	40 - 159	7	20
Ethylbenzene	<0.18		50.0	39.0		ug/L		78	70 - 123	6	20
Hexachlorobutadiene	<0.45		50.0	40.8		ug/L		82	51 - 150	12	20
Isopropylbenzene	<0.39		50.0	43.2		ug/L		86	70 - 126	11	20
Methyl tert-butyl ether	<0.39		50.0	44.7		ug/L		89	55 - 123	4	20
Methylene Chloride	<1.6		50.0	39.8		ug/L		80	69 - 125	5	20
Naphthalene	<0.34		50.0	45.0		ug/L		90	53 - 144	10	20
n-Butylbenzene	<0.39		50.0	36.1		ug/L		72	68 - 125	8	20
N-Propylbenzene	<0.41		50.0	40.7		ug/L		81	69 - 127	12	20
p-Isopropyltoluene	<0.36		50.0	40.7		ug/L		81	70 - 125	12	20
sec-Butylbenzene	<0.40		50.0	41.1		ug/L		82	70 - 123	12	20
Styrene	<0.39		50.0	39.9		ug/L		80	70 - 120	6	20
tert-Butylbenzene	<0.40		50.0	44.3		ug/L		89	70 - 121	14	20
Tetrachloroethene	<0.37		50.0	39.0		ug/L		78	70 - 128	5	20
Toluene	<0.15		50.0	42.1		ug/L		84	70 - 125	6	20
trans-1,2-Dichloroethene	3.1		50.0	42.3		ug/L		78	70 - 125	3	20
trans-1,3-Dichloropropene	<0.36		50.0	39.5		ug/L		79	62 - 128	6	20
Trichloroethene	3.8		50.0	46.9		ug/L		86	70 - 125	3	20
Trichlorofluoromethane	<0.43		50.0	47.1		ug/L		94	55 - 128	10	20
Vinyl chloride	1.3		50.0	41.0		ug/L		79	64 - 126	13	20
Xylenes, Total	<0.22		100	79.6		ug/L		80	70 - 125	5	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	92		75 - 120

**Lab Sample ID: MB 500-673843/6**  
**Matrix: Water**  
**Analysis Batch: 673843**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/09/22 13:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/09/22 13:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/09/22 13:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/09/22 13:19	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-673843/6**  
**Matrix: Water**  
**Analysis Batch: 673843**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/09/22 13:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/09/22 13:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/09/22 13:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/09/22 13:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/09/22 13:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/09/22 13:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/09/22 13:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/09/22 13:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/09/22 13:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/09/22 13:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/09/22 13:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/09/22 13:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/09/22 13:19	1
Benzene	<0.15		0.50	0.15	ug/L			09/09/22 13:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/09/22 13:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/09/22 13:19	1
Bromoform	<0.48		1.0	0.48	ug/L			09/09/22 13:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/09/22 13:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/09/22 13:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/09/22 13:19	1
Chloroform	<0.37		2.0	0.37	ug/L			09/09/22 13:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/09/22 13:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/09/22 13:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/09/22 13:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/09/22 13:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/09/22 13:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/09/22 13:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/09/22 13:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/09/22 13:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/09/22 13:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/09/22 13:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/09/22 13:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/09/22 13:19	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 13:19	1
Styrene	<0.39		1.0	0.39	ug/L			09/09/22 13:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/09/22 13:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/09/22 13:19	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-673843/6**  
**Matrix: Water**  
**Analysis Batch: 673843**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Toluene	<0.15		0.50	0.15	ug/L			09/09/22 13:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/09/22 13:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/09/22 13:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/09/22 13:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/09/22 13:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/09/22 13:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/09/22 13:19	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/09/22 13:19	1
4-Bromofluorobenzene (Surr)	102		72 - 124		09/09/22 13:19	1
Dibromofluoromethane	92		75 - 120		09/09/22 13:19	1
Toluene-d8 (Surr)	91		75 - 120		09/09/22 13:19	1

**Lab Sample ID: LCS 500-673843/8**  
**Matrix: Water**  
**Analysis Batch: 673843**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	41.3		ug/L		83	70 - 125
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	70 - 125
1,1,1,2-Tetrachloroethane	50.0	43.9		ug/L		88	62 - 140
1,1,2-Trichloroethane	50.0	43.6		ug/L		87	71 - 130
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 125
1,1-Dichloroethene	50.0	42.1		ug/L		84	67 - 122
1,1-Dichloropropene	50.0	46.2		ug/L		92	70 - 121
1,2,3-Trichlorobenzene	50.0	46.6		ug/L		93	51 - 145
1,2,3-Trichloropropane	50.0	42.1		ug/L		84	50 - 133
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	57 - 137
1,2,4-Trimethylbenzene	50.0	44.8		ug/L		90	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.5		ug/L		75	56 - 123
1,2-Dibromoethane	50.0	40.9		ug/L		82	70 - 125
1,2-Dichlorobenzene	50.0	42.3		ug/L		85	70 - 125
1,2-Dichloroethane	50.0	48.8		ug/L		98	68 - 127
1,2-Dichloropropane	50.0	46.3		ug/L		93	67 - 130
1,3,5-Trimethylbenzene	50.0	45.6		ug/L		91	70 - 123
1,3-Dichlorobenzene	50.0	43.9		ug/L		88	70 - 125
1,3-Dichloropropane	50.0	43.7		ug/L		87	62 - 136
1,4-Dichlorobenzene	50.0	42.8		ug/L		86	70 - 120
2,2-Dichloropropane	50.0	45.5		ug/L		91	58 - 139
2-Chlorotoluene	50.0	45.1		ug/L		90	70 - 125
4-Chlorotoluene	50.0	46.1		ug/L		92	68 - 124
Benzene	50.0	43.7		ug/L		87	70 - 120
Bromobenzene	50.0	45.1		ug/L		90	70 - 122
Bromochloromethane	50.0	43.4		ug/L		87	65 - 122
Bromodichloromethane	50.0	43.3		ug/L		87	69 - 120
Bromoform	50.0	36.7		ug/L		73	56 - 132
Bromomethane	50.0	35.4		ug/L		71	40 - 152

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-673843/8**  
**Matrix: Water**  
**Analysis Batch: 673843**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	46.9		ug/L		94	59 - 133
Chlorobenzene	50.0	43.7		ug/L		87	70 - 120
Chloroethane	50.0	50.2		ug/L		100	48 - 136
Chloroform	50.0	46.7		ug/L		93	70 - 120
Chloromethane	50.0	46.0		ug/L		92	56 - 152
cis-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	42.6		ug/L		85	64 - 127
Dibromochloromethane	50.0	39.6		ug/L		79	68 - 125
Dibromomethane	50.0	42.4		ug/L		85	70 - 120
Dichlorodifluoromethane	50.0	52.9		ug/L		106	40 - 159
Ethylbenzene	50.0	42.4		ug/L		85	70 - 123
Hexachlorobutadiene	50.0	48.2		ug/L		96	51 - 150
Isopropylbenzene	50.0	45.2		ug/L		90	70 - 126
Methyl tert-butyl ether	50.0	45.8		ug/L		92	55 - 123
Methylene Chloride	50.0	40.5		ug/L		81	69 - 125
Naphthalene	50.0	44.2		ug/L		88	53 - 144
n-Butylbenzene	50.0	43.9		ug/L		88	68 - 125
N-Propylbenzene	50.0	45.4		ug/L		91	69 - 127
p-Isopropyltoluene	50.0	46.3		ug/L		93	70 - 125
sec-Butylbenzene	50.0	44.6		ug/L		89	70 - 123
Styrene	50.0	42.5		ug/L		85	70 - 120
tert-Butylbenzene	50.0	45.9		ug/L		92	70 - 121
Tetrachloroethene	50.0	43.8		ug/L		88	70 - 128
Toluene	50.0	44.0		ug/L		88	70 - 125
trans-1,2-Dichloroethene	50.0	43.2		ug/L		86	70 - 125
trans-1,3-Dichloropropene	50.0	42.9		ug/L		86	62 - 128
Trichloroethene	50.0	46.6		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	50.2		ug/L		100	55 - 128
Vinyl chloride	50.0	41.7		ug/L		83	64 - 126
Xylenes, Total	100	85.7		ug/L		86	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 126
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	90		75 - 120

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 480-640278/21**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			09/05/22 21:05	1
Ethane	<1.5		7.5	1.5	ug/L			09/05/22 21:05	1
Ethene	<1.5		7.0	1.5	ug/L			09/05/22 21:05	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

**Lab Sample ID: MB 480-640278/3**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			09/05/22 15:26	1
Ethane	<1.5		7.5	1.5	ug/L			09/05/22 15:26	1
Ethene	<1.5		7.0	1.5	ug/L			09/05/22 15:26	1

**Lab Sample ID: LCS 480-640278/22**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.4	20.8		ug/L		107	85 - 120
Ethane	36.3	39.8		ug/L		109	79 - 120
Ethene	34.0	37.8		ug/L		111	85 - 120

**Lab Sample ID: LCS 480-640278/4**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.4	20.0		ug/L		103	85 - 120
Ethane	36.3	39.9		ug/L		110	79 - 120
Ethene	34.0	37.7		ug/L		111	85 - 120

**Lab Sample ID: LCSD 480-640278/23**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.4	20.2		ug/L		104	85 - 120	3	50
Ethane	36.3	38.9		ug/L		107	79 - 120	2	50
Ethene	34.0	37.7		ug/L		111	85 - 120	0	50

**Lab Sample ID: LCSD 480-640278/5**  
**Matrix: Water**  
**Analysis Batch: 640278**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.4	19.7		ug/L		102	85 - 120	1	50
Ethane	36.3	39.7		ug/L		109	79 - 120	0	50
Ethene	34.0	38.1		ug/L		112	85 - 120	1	50

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 500-672693/1-A**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672693**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/01/22 08:18	09/01/22 22:24	1
Chromium	<1.1		5.0	1.1	ug/L		09/01/22 08:18	09/01/22 22:24	1
Iron	<47		100	47	ug/L		09/01/22 08:18	09/01/22 22:24	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-672693/2-A**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672693**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	88.9		ug/L		89	80 - 120
Chromium	200	167		ug/L		83	80 - 120
Iron	1000	910		ug/L		91	80 - 120

**Lab Sample ID: 500-221564-3 MS**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: MW-27**  
**Prep Type: Dissolved**  
**Prep Batch: 672693**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	8.6		100	106		ug/L		97	75 - 125
Chromium	<1.1		200	189		ug/L		95	75 - 125
Iron	31000		1000	31900	4	ug/L		125	75 - 125

**Lab Sample ID: 500-221564-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: MW-27**  
**Prep Type: Dissolved**  
**Prep Batch: 672693**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	8.6		100	108		ug/L		99	75 - 125	2	20
Chromium	<1.1		200	184		ug/L		92	75 - 125	3	20
Iron	31000		1000	32700	4	ug/L		208	75 - 125	3	20

**Lab Sample ID: 500-221564-3 DU**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: MW-27**  
**Prep Type: Dissolved**  
**Prep Batch: 672693**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	8.6		8.26		ug/L		5	20
Chromium	<1.1		<1.1		ug/L		NC	20
Iron	31000		30800		ug/L		0.5	20

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-673270/3**  
**Matrix: Water**  
**Analysis Batch: 673270**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.095		0.20	0.095	mg/L			09/06/22 15:22	1

**Lab Sample ID: LCS 500-673270/4**  
**Matrix: Water**  
**Analysis Batch: 673270**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	5.12		mg/L		102	90 - 110

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 500-221564-14 MS**  
**Matrix: Water**  
**Analysis Batch: 673270**

**Client Sample ID: MW-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	9.8		2.50	12.6	E	mg/L		113	80 - 120

**Lab Sample ID: 500-221564-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 673270**

**Client Sample ID: MW-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	9.8		2.50	12.5	E	mg/L		111	80 - 120	0	20

**Lab Sample ID: MB 500-673286/3**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.095		0.20	0.095	mg/L			09/06/22 15:08	1

**Lab Sample ID: LCS 500-673286/4**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	5.37		mg/L		107	90 - 110

**Lab Sample ID: 500-221564-4 MS**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: MW-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.0	F1	50.0	52.4		mg/L		101	80 - 120

**Lab Sample ID: 500-221564-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: MW-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.0	F1	50.0	52.4		mg/L		101	80 - 120	0	20

**Lab Sample ID: 500-221564-10 MS**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: MW-30**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	4.5	F1	25.0	29.9		mg/L		102	80 - 120

**Lab Sample ID: 500-221564-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 673286**

**Client Sample ID: MW-30**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	4.5	F1	25.0	30.2		mg/L		103	80 - 120	1	20

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-673666/3  
Matrix: Water  
Analysis Batch: 673666

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.095		0.20	0.095	mg/L			09/08/22 11:32	1

Lab Sample ID: LCS 500-673666/4  
Matrix: Water  
Analysis Batch: 673666

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	5.08		mg/L		102	90 - 110

## Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 500-674324/4  
Matrix: Water  
Analysis Batch: 674324

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<0.47		1.0	0.47	mg/L			09/12/22 19:14	1

Lab Sample ID: LCS 500-674324/5  
Matrix: Water  
Analysis Batch: 674324

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Dup	10.0	9.97		mg/L		100	86 - 116

Lab Sample ID: LCSD 500-674324/6  
Matrix: Water  
Analysis Batch: 674324

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Dup	10.0	9.99		mg/L		100	86 - 116	0	20

Lab Sample ID: MB 500-674498/4  
Matrix: Water  
Analysis Batch: 674498

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<0.47		1.0	0.47	mg/L			09/13/22 13:39	1

Lab Sample ID: LCS 500-674498/5  
Matrix: Water  
Analysis Batch: 674498

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Dup	10.0	9.86		mg/L		99	86 - 116

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 500-674498/6  
Matrix: Water  
Analysis Batch: 674498

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Dup	10.0	9.99		mg/L		100	86 - 116	1	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-2

Date Collected: 08/29/22 10:52

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 16:56

## Client Sample ID: IW-2

Date Collected: 08/29/22 11:20

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 17:21

## Client Sample ID: MW-27

Date Collected: 08/29/22 11:55

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 17:45
Total/NA	Analysis	RSK-175		22	640278	DSC	EET BUF	09/05/22 16:23
Total/NA	Analysis	RSK-175	DL	110	640278	DSC	EET BUF	09/05/22 22:02
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:31
Total/NA	Analysis	300.0		1	673666	EAT	EET CHI	09/08/22 15:51
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 01:59

## Client Sample ID: MW-3

Date Collected: 08/29/22 12:51

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 18:09
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 16:41
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/05/22 22:21
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:48
Total/NA	Analysis	300.0		10	673286	EAT	EET CHI	09/06/22 16:57
Total/NA	Analysis	9060A		5	674498	BC	EET CHI	09/13/22 14:54

## Client Sample ID: MW-6

Date Collected: 08/29/22 13:48

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 18:33
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 17:00
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/05/22 22:40

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-6

Date Collected: 08/29/22 13:48

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:52
Total/NA	Analysis	300.0		5	673286	EAT	EET CHI	09/06/22 18:05
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 02:37

## Client Sample ID: P-6

Date Collected: 08/29/22 14:33

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673599	W1T	EET CHI	09/08/22 18:58
Total/NA	Analysis	RSK-175		1	640278	DSC	EET BUF	09/05/22 17:19
Total/NA	Analysis	RSK-175	DL	11	640278	DSC	EET BUF	09/05/22 22:59
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:55
Total/NA	Analysis	300.0		20	673286	EAT	EET CHI	09/06/22 18:19
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 02:51

## Client Sample ID: MW-18

Date Collected: 08/29/22 15:08

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	673599	W1T	EET CHI	09/08/22 19:22
Total/NA	Analysis	8260B	DL	50	673599	W1T	EET CHI	09/08/22 19:46
Total/NA	Analysis	RSK-175		22	640278	DSC	EET BUF	09/05/22 17:38
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:06
Total/NA	Analysis	300.0		50	673286	EAT	EET CHI	09/06/22 18:33
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 03:03

## Client Sample ID: MW-28

Date Collected: 08/30/22 08:47

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673843	PSP	EET CHI	09/09/22 16:08
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 17:57
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/05/22 23:17
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:09
Total/NA	Analysis	300.0		2	673666	EAT	EET CHI	09/08/22 18:35
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 03:40

Eurofins Chicago

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Client Sample ID: MW-25

Date Collected: 08/30/22 09:27

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	673843	PSP	EET CHI	09/09/22 15:20
Total/NA	Analysis	8260B	DL	50	673843	PSP	EET CHI	09/09/22 15:44
Total/NA	Analysis	RSK-175		44	640278	DSC	EET BUF	09/05/22 18:16
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:12
Total/NA	Analysis	300.0		1	673666	EAT	EET CHI	09/08/22 18:48
Total/NA	Analysis	9060A		20	674498	BC	EET CHI	09/13/22 15:15

## Client Sample ID: MW-30

Date Collected: 08/30/22 10:39

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	673843	PSP	EET CHI	09/09/22 16:33
Total/NA	Analysis	8260B	DL	200	673843	PSP	EET CHI	09/09/22 16:57
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 18:35
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/05/22 23:36
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:16
Total/NA	Analysis	300.0		5	673286	EAT	EET CHI	09/06/22 19:13
Total/NA	Analysis	9060A		5	674498	BC	EET CHI	09/13/22 15:27

## Client Sample ID: MW-24

Date Collected: 08/30/22 11:31

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	673843	PSP	EET CHI	09/09/22 17:21
Total/NA	Analysis	8260B	DL	50	673843	PSP	EET CHI	09/09/22 17:45
Total/NA	Analysis	RSK-175		1	640278	DSC	EET BUF	09/05/22 18:53
Total/NA	Analysis	RSK-175	DL	22	640278	DSC	EET BUF	09/05/22 23:55
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:19
Total/NA	Analysis	300.0		1	673286	EAT	EET CHI	09/06/22 19:54
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 04:41

## Client Sample ID: MW-29

Date Collected: 08/30/22 12:22

Date Received: 08/31/22 09:30

## Lab Sample ID: 500-221564-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673843	PSP	EET CHI	09/09/22 18:10
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 19:12

Eurofins Chicago

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

**Client Sample ID: MW-29**  
**Date Collected: 08/30/22 12:22**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221564-12**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/06/22 00:14
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:23
Total/NA	Analysis	300.0		1	673286	EAT	EET CHI	09/06/22 20:35
Total/NA	Analysis	9060A		5	674498	BC	EET CHI	09/13/22 15:38

**Client Sample ID: MW-26**  
**Date Collected: 08/30/22 14:06**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221564-13**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673843	PSP	EET CHI	09/09/22 18:34
Total/NA	Analysis	RSK-175		11	640278	DSC	EET BUF	09/05/22 19:31
Total/NA	Analysis	RSK-175	DL	88	640278	DSC	EET BUF	09/06/22 00:33
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:26
Total/NA	Analysis	300.0		1	673286	EAT	EET CHI	09/06/22 20:49
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 05:19

**Client Sample ID: MW-4**  
**Date Collected: 08/30/22 15:12**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221564-14**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	673843	PSP	EET CHI	09/09/22 18:58
Total/NA	Analysis	8260B	DL	100	673843	PSP	EET CHI	09/09/22 19:22
Total/NA	Analysis	RSK-175		1	640278	DSC	EET BUF	09/05/22 19:50
Total/NA	Analysis	RSK-175	DL	44	640278	DSC	EET BUF	09/06/22 00:52
Dissolved	Prep	3005A			672693	BDE	EET CHI	09/01/22 08:18 - 09/01/22 08:48 <sup>1</sup>
Dissolved	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 23:29
Total/NA	Analysis	300.0		1	673270	EAT	EET CHI	09/06/22 21:30
Total/NA	Analysis	9060A		1	674324	BC	EET CHI	09/13/22 05:33

**Client Sample ID: TRIP BLANK**  
**Date Collected: 08/30/22 00:00**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221564-15**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	673843	PSP	EET CHI	09/09/22 19:46

<sup>1</sup> Completion dates and times are reported or not reported per method requirements or individual lab discretion.

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600  
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon

Job ID: 500-221564-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-23

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Chain of Custody Record

<b>Client Information</b> Client Name: Bernard Fenelon Company: GZA GeoEnvironmental Inc. Address: 17975 W Sarah Lane Suite 100 Brookfield, IL 60045 Phone: 262-754-2560 Email: bernard.fenelon@gza.com Project Name: Former Gardner Horicon Site:		Sample ID: C. AINSWORTH Lab PM: Fredrick Sandie E Mail: Sandra.Fredrick@eurofinsus.com		Carrier Tracking No(s): State of Origin:		COC No: 500 04936-29090 1 Page: Page 1 of 5 Job #: 500-221564									
Due Date Requested: TAT Requested (days): <b>NORMAL</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PC #: _____ Purchase Order not required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No V #: _____ Project #: 50010928 SSOW#: _____		<b>Analysis Request</b> Field Filtered Sample (Yes or No): Perform MS/MSB (Yes or No): 8280B VOCs: _____ 300 Sulfate: _____ 6020A Disc Metals, As, Cr, Fe: _____ 9060A TOC: _____ RSK_175 MEE Only: _____		Preservation Codes: A HCL M Hexane B NaOH N None C 7n Acetate O Silver 22 D Nitric Acid P Na2O4S E NaHSC4 Q Na2SO3 F MeOH S H2O4 G Amchlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I Ice V MCA J Di Acate W pH 4.6 K ED A X Trizma L EJA Y Trizma Z Other (specify)		QR Code: 500-221564 COC									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSB (Yes or No)	8280B VOCs	300 Sulfate	6020A Disc Metals, As, Cr, Fe	9060A TOC	RSK_175 MEE Only	Total Number of Containers	Special Instructions/Note	
1	MW-2	8/21/22	1052	G	Water	N	X								
2	IW-2		1120		Water	N	X								
3	MW-27		1155		Water	M	X	X	X	X	X				
4	MW-3		1251		Water	Y	X	X	X	X	X				
5	MW-6		1348		Water	Y	X	X	X	X	X				
6	P-6		1433		Water	Y	X	X	X	X	X				
7	MW-18		1508		Water	U	X	X	X	X	X				
8	MW-28	8/30/22	847		Water	Y	X	X	X	X	X				
9	MW-25		927		Water	Y	X	X	X	X	X				
10	MW-30		1039		Water	Y	X	X	X	X	X				
11	MW-24		1131		Water	Y	X	X	X	X	X				
Possible Hazard Identification <input checked="" type="checkbox"/> Not Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Dispose By Lab <input type="checkbox"/> Archive For _____ Mo. this									
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements									
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____		Relinquished by: _____ Date/Time: 8/20/22 1645		Relinquished by: GZA Date/Time: _____		Relinquished by: PER FED EX Date/Time: 8/31/22 0930		Relinquished by: Stephanie Homandorf Date/Time: _____		Relinquished by: _____ Date/Time: _____		Relinquished by: _____ Date/Time: _____		Relinquished by: _____ Date/Time: _____	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: _____		Date: _____		Temperature: _____		Other Remarks: 5.6 + 3.6		Date: 9/15/2022		Page: Page 1 of 5		Job #: 500-221564	





ORIGIN ID:RRLA (262) 754-2560  
CHRIS AINSWORTH  
GZA GEOENVIRONMENTAL  
17975 W SARAH LANE.

SHIP DATE: 24AUG22  
ACTWGT: 25.00 LB MAN  
CAD: 0269688/CAFE3511

BROOKFIELD, WI 53045  
UNITED STATES US

TO **SAMPLE RECEIPT**  
**EUROFINS**  
**2417 BOND ST.**

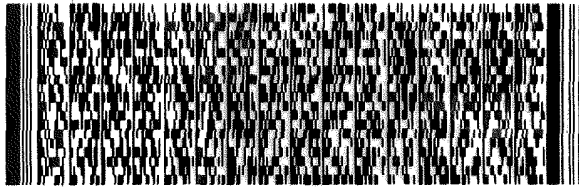
**UNIVERSITY PARK IL 60484**

(262) 202-6966  
INU: PO:

REF:

DEPT:

RMA: ||| ||| |||



**FedEx**  
Express



4211020121107 W

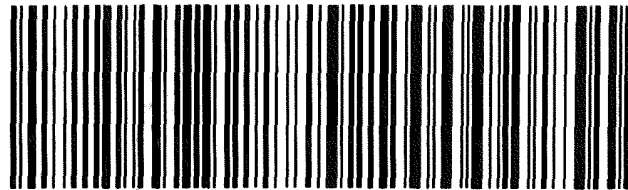
**FedEx**  
TRK# **5887 6288 5206**  
0221

**WED - 31 AUG 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**60484**  
IL-US **ORD**

110297-4871002 Exp 09/23



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**Eurofins Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200 Fax: 708-534-5211

**Chain of Custody Record**



Environment Testing  
 America

<b>Client Information (Sub Contract Lab)</b>	Sampler: Fredrick, Sandie	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-164782.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast, Address: 10 Hazelwood Drive, City: Amherst, State, Zip: NY, 14228-2298, Phone: 716-691-2600(Tel) 716-691-7991(Fax), Email:	Accreditations Required (See note): State Program - Wisconsin	Job #: 500-221564-1		

Due Date Requested: 9/14/2022	TAT Requested (days):	<b>Analysis Requested</b>				<b>Preservation Codes:</b>	
PO #:	WO #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane, Ethane, Ethene			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA
Project Name: Former Gardner, Horicon	Project #: 50010928						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Site:	SSOW#:						Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
MW-27 (500-221564-3)	8/29/22	11:55 Central		Water		X		3	
MW-3 (500-221564-4)	8/29/22	12:51 Central		Water		X		3	
MW-6 (500-221564-5)	8/29/22	13:48 Central		Water		X		3	
P-6 (500-221564-6)	8/29/22	14:33 Central		Water		X		3	
MW-18 (500-221564-7)	8/29/22	15:08 Central		Water		X		3	
MW-28 (500-221564-8)	8/30/22	08:47 Central		Water		X		3	
MW-25 (500-221564-9)	8/30/22	09:27 Central		Water		X		3	
MW-30 (500-221564-10)	8/30/22	10:39 Central		Water		X		3	
MW-24 (500-221564-11)	8/30/22	11:31 Central		Water		X		3	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

<b>Possible Hazard Identification</b>	<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>
Unconfirmed	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 8/31/22 1415	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>
			Date/Time: 9/2/22 1000 T/A
			Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	4.6 # ICE

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9/15/2022



Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Form containing Client Information (Sub Contract Lab), Analysis Requested table, Sample Identification table, and various identification/disposal sections.





# Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-221564-1

**Login Number: 221564**

**List Number: 1**

**Creator: Hernandez, Stephanie**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-221564-1

**Login Number: 221564**

**List Number: 2**

**Creator: Kolb, Chris M**

**List Source: Eurofins Buffalo**

**List Creation: 09/02/22 10:40 AM**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6 IR GUN #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



## ANALYTICAL REPORT

Eurofins Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-221852-1

Client Project/Site: Former Gardner, Horicon - 20.0153134.20

**For:**

GZA GeoEnvironmental, Inc.  
17975 W Sarah Lane, Suite 100  
Brookfield, Wisconsin 53045

Attn: Bernard Fenelon



Authorized for release by:  
9/21/2022 1:32:58 PM

Sandie Fredrick, Project Manager II  
(920)261-1660  
[Sandra.Fredrick@et.eurofinsus.com](mailto:Sandra.Fredrick@et.eurofinsus.com)

### LINKS

Review your project  
results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Case Narrative

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Job ID: 500-221852-1

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-221852-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/7/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 0.5° C.

#### Receipt Exceptions

Received 2 VOA vials broken for samples 8,29,30, & 34. Received all 3 VOA vials broken for sample TW-3.

Received 1 VOA vial for samples 24 & 26 and 1 MEE vial for sample 5 & 8 with headspace.

Only received 1 Trip Blank vial, so didn't log the second one in.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for analytical batch 500-674797 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased low in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: Duplicate #1 (500-221852-2), Duplicate #2 (500-221852-3), P-5 (500-221852-4), MW-5 (500-221852-5), MW-10 (500-221852-9), MW-19 (500-221852-12), MW-23 (500-221852-13), Duplicate #3 (500-221852-19), TW-6 (500-221852-21), P-7 (500-221852-26), P-16 (500-221852-28), MW-12 (500-221852-31), P-12 (500-221852-32) and P-8 (500-221852-33). Elevated reporting limits (RLs) are provided.

Method 8260B: Methylene chloride was detected in the following items: Duplicate #1 (500-221852-2), Duplicate #2 (500-221852-3), P-5 (500-221852-4), MW-5 (500-221852-5), TW-12 (500-221852-6), TW-10 (500-221852-7), P-10 (500-221852-8), MW-10 (500-221852-9), MW-21 (500-221852-10), MW-15 (500-221852-11), MW-19 (500-221852-12), MW-23 (500-221852-13), MW-22 (500-221852-14), MW-20 (500-221852-15), MW-1 (500-221852-16), MW-9 (500-221852-17), MW-17 (500-221852-18), Duplicate #3 (500-221852-19), Duplicate #4 (500-221852-20) and MW-12 (500-221852-31). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The laboratory control sample (LCS) for 674797 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased low in the LCS and were not detected in the associated samples. The data have been reported.

P-11 (500-221852-23), MW-11 (500-221852-24), MW-7 (500-221852-25), P-7 (500-221852-26), MW-16 (500-221852-27), P-16 (500-221852-28), P-13 (500-221852-29), MW-13 (500-221852-30), MW-12 (500-221852-31), P-12 (500-221852-32), P-8 (500-221852-33), MW-8 (500-221852-34) and MW-14 (500-221852-35)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-5 (500-221852-5), P-10 (500-221852-8), MW-10 (500-221852-9), MW-21 (500-221852-10) and MW-23 (500-221852-13). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Case Narrative

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

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## Job ID: 500-221852-1 (Continued)

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### Laboratory: Eurofins Chicago (Continued)

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: Trip Blank

Lab Sample ID: 500-221852-1

No Detections.

## Client Sample ID: Duplicate #1

Lab Sample ID: 500-221852-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.8		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.30	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	5.2		1.0	0.51	ug/L	1		8260B	Total/NA
Methylene Chloride	3.2	J	5.0	1.6	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	110		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	65		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	32		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1000		10	4.1	ug/L	10		8260B	Total/NA

## Client Sample ID: Duplicate #2

Lab Sample ID: 500-221852-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	7.1		5.0	2.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	650		5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	18	J	25	8.2	ug/L	5		8260B	Total/NA
Tetrachloroethene	12		5.0	1.9	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	10		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	32		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene - DL	4100		25	8.2	ug/L	50		8260B	Total/NA

## Client Sample ID: P-5

Lab Sample ID: 500-221852-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.2		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.34	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroethane	5.4		1.0	0.51	ug/L	1		8260B	Total/NA
Methylene Chloride	2.5	J	5.0	1.6	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	120		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	66		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	32		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	890		10	4.1	ug/L	10		8260B	Total/NA

## Client Sample ID: MW-5

Lab Sample ID: 500-221852-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	6.1		5.0	2.0	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	610		5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	11	J	25	8.2	ug/L	5		8260B	Total/NA
Tetrachloroethene	11		5.0	1.9	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	9.6		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	31		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene - DL	4100		25	8.2	ug/L	50		8260B	Total/NA
Methane - DL	480		44	11	ug/L	11		RSK-175	Total/NA
Arsenic	0.99	J	1.0	0.23	ug/L	1		6020A	Dissolved
Iron	81	J	100	47	ug/L	1		6020A	Dissolved
Sulfate	170		20	9.5	mg/L	100		300.0	Total/NA
TOC Dup	4.5		1.0	0.47	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: TW-12

## Lab Sample ID: 500-221852-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.4	J	5.0	1.6	ug/L	1		8260B	Total/NA

## Client Sample ID: TW-10

## Lab Sample ID: 500-221852-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.53	J	1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	89		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	2.5	J	5.0	1.6	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.2		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	37		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: P-10

## Lab Sample ID: 500-221852-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	33		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	2.4	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	0.21	J	0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	33		1.0	0.20	ug/L	1		8260B	Total/NA
Methane	2600		44	11	ug/L	11		RSK-175	Total/NA
Arsenic	1.5		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	3000		100	47	ug/L	1		6020A	Dissolved
Sulfate	3.7		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	55		5.0	2.4	mg/L	5		9060A	Total/NA

## Client Sample ID: MW-10

## Lab Sample ID: 500-221852-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.5	J	5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	12	J	25	8.2	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	42		5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	190		2.5	0.82	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	3600		50	20	ug/L	50		8260B	Total/NA
Vinyl chloride - DL	3800		50	10	ug/L	50		8260B	Total/NA
Ethane	84		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	11000		440	110	ug/L	110		RSK-175	Total/NA
Ethene - DL	1600		770	170	ug/L	110		RSK-175	Total/NA
Arsenic	17		1.0	0.23	ug/L	1		6020A	Dissolved
Chromium	1.7	J	5.0	1.1	ug/L	1		6020A	Dissolved
Iron	6800		100	47	ug/L	1		6020A	Dissolved
Sulfate	0.27		0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	6.6		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-21

## Lab Sample ID: 500-221852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	6.4		1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.93	J	1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	2.3	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	1.4		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.0		1.0	0.20	ug/L	1		8260B	Total/NA
Ethane	130		7.5	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	13000		880	220	ug/L	220		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: MW-21 (Continued)

Lab Sample ID: 500-221852-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		1.0	0.23	ug/L	1		6020A	Dissolved
Iron	15000		100	47	ug/L	1		6020A	Dissolved
Sulfate	0.14	J	0.20	0.095	mg/L	1		300.0	Total/NA
TOC Dup	8.2		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-15

Lab Sample ID: 500-221852-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.4	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-19

Lab Sample ID: 500-221852-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.9	J	5.0	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trichlorobenzene	2.1	J	5.0	1.7	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	3.4	J	5.0	2.0	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	1.3	J	5.0	1.3	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	2.1	J	5.0	1.8	ug/L	5		8260B	Total/NA
Chloroethane	12		5.0	2.5	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	700		5.0	2.0	ug/L	5		8260B	Total/NA
Hexachlorobutadiene	3.2	J	5.0	2.2	ug/L	5		8260B	Total/NA
Methylene Chloride	11	J	25	8.2	ug/L	5		8260B	Total/NA
Tetrachloroethene	2.9	J	5.0	1.9	ug/L	5		8260B	Total/NA
Toluene	1.2	J	2.5	0.76	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	24		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	190		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene - DL	3900		25	8.2	ug/L	50		8260B	Total/NA

## Client Sample ID: MW-23

Lab Sample ID: 500-221852-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	5.0		5.0	2.5	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	430		5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	10	J	25	8.2	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	120		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	450		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene - DL	3700		25	8.2	ug/L	50		8260B	Total/NA
Ethene	7.8		7.0	1.5	ug/L	1		RSK-175	Total/NA
Methane - DL	980		44	11	ug/L	11		RSK-175	Total/NA
Arsenic	0.82	J	1.0	0.23	ug/L	1		6020A	Dissolved
Iron	140		100	47	ug/L	1		6020A	Dissolved
Sulfate	36		2.0	0.95	mg/L	10		300.0	Total/NA
TOC Dup	2.3		1.0	0.47	mg/L	1		9060A	Total/NA

## Client Sample ID: MW-22

Lab Sample ID: 500-221852-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.8		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	2.1	J	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	44		0.50	0.16	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: MW-20

## Lab Sample ID: 500-221852-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	6.3		5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	0.47	J	0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-1

## Lab Sample ID: 500-221852-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.8	J B	5.0	1.6	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-9

## Lab Sample ID: 500-221852-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.0		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	4.7	J B	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	6.9		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-17

## Lab Sample ID: 500-221852-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	2.8		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.7		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	5.0	B	5.0	1.6	ug/L	1		8260B	Total/NA
Trichloroethene	1.1		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	17		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: Duplicate #3

## Lab Sample ID: 500-221852-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.6	J	5.0	2.0	ug/L	5		8260B	Total/NA
Chloroethane	19		5.0	2.5	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	630		5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	27	B	25	8.2	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	22		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	140		5.0	1.0	ug/L	5		8260B	Total/NA
Trichloroethene - DL	3200		25	8.2	ug/L	50		8260B	Total/NA

## Client Sample ID: Duplicate #4

## Lab Sample ID: 500-221852-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.8		5.0	2.0	ug/L	5		8260B	Total/NA
Methylene Chloride	25	B	25	8.2	ug/L	5		8260B	Total/NA
Trichloroethene	7.7		2.5	0.82	ug/L	5		8260B	Total/NA

## Client Sample ID: TW-6

## Lab Sample ID: 500-221852-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.74	J	1.0	0.39	ug/L	1		8260B	Total/NA
1,2,3-Trichloropropane	11		2.0	0.41	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.7		1.0	0.39	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	25		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	31		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	50		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	250		10	4.1	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: TW-4

## Lab Sample ID: 500-221852-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.59		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: P-11

## Lab Sample ID: 500-221852-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.74	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.61	J B	1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	0.39	J	0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-11

## Lab Sample ID: 500-221852-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.97	J	1.0	0.41	ug/L	1		8260B	Total/NA
Naphthalene	0.71	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.63	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Trichloroethene	12		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-7

## Lab Sample ID: 500-221852-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.8		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	7.5		0.50	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	0.31	J	1.0	0.22	ug/L	1		8260B	Total/NA

## Client Sample ID: P-7

## Lab Sample ID: 500-221852-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.57	J	1.0	0.39	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Chloroethane	8.6		1.0	0.51	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	3.6		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	15		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	47		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	130		10	4.1	ug/L	10		8260B	Total/NA

## Client Sample ID: MW-16

## Lab Sample ID: 500-221852-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Trichloroethene	0.36	J	0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: P-16

## Lab Sample ID: 500-221852-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.69	J	1.0	0.39	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	10		1.0	0.35	ug/L	1		8260B	Total/NA
Vinyl chloride	24		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: P-16 (Continued)

Lab Sample ID: 500-221852-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	160		10	4.1	ug/L	10		8260B	Total/NA

## Client Sample ID: P-13

Lab Sample ID: 500-221852-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Naphthalene	0.70	J B	1.0	0.34	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-13

Lab Sample ID: 500-221852-30

No Detections.

## Client Sample ID: MW-12

Lab Sample ID: 500-221852-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	9.1		5.0	2.0	ug/L	5		8260B	Total/NA
1,2,4-Trimethylbenzene	3.9	J B	5.0	1.8	ug/L	5		8260B	Total/NA
1,2-Dichloroethane	5.9		5.0	2.0	ug/L	5		8260B	Total/NA
1,3,5-Trimethylbenzene	4.0	J B	5.0	1.3	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	420		5.0	2.0	ug/L	5		8260B	Total/NA
Naphthalene	4.3	J B	5.0	1.7	ug/L	5		8260B	Total/NA
n-Butylbenzene	3.3	J B	5.0	1.9	ug/L	5		8260B	Total/NA
N-Propylbenzene	3.2	J B	5.0	2.1	ug/L	5		8260B	Total/NA
p-Isopropyltoluene	3.8	J	5.0	1.8	ug/L	5		8260B	Total/NA
sec-Butylbenzene	3.3	J	5.0	2.0	ug/L	5		8260B	Total/NA
tert-Butylbenzene	3.3	J	5.0	2.0	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	37		5.0	1.7	ug/L	5		8260B	Total/NA
Vinyl chloride	28		5.0	1.0	ug/L	5		8260B	Total/NA
Xylenes, Total	1.9	J	5.0	1.1	ug/L	5		8260B	Total/NA
Trichloroethene - DL	2800		25	8.2	ug/L	50		8260B	Total/NA

## Client Sample ID: P-12

Lab Sample ID: 500-221852-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.1		1.0	0.39	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	8.3		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.27	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	31		1.0	0.35	ug/L	1		8260B	Total/NA
Vinyl chloride	41		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	600		10	4.1	ug/L	10		8260B	Total/NA
Trichloroethene - DL	80		5.0	1.6	ug/L	10		8260B	Total/NA

## Client Sample ID: P-8

Lab Sample ID: 500-221852-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.5		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.16	J	0.50	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	29		1.0	0.35	ug/L	1		8260B	Total/NA
Vinyl chloride	19		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	230		10	4.1	ug/L	10		8260B	Total/NA
Trichloroethene - DL	660		5.0	1.6	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: MW-8

## Lab Sample ID: 500-221852-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	32		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	37		0.50	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-14

## Lab Sample ID: 500-221852-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.71	J	1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	52		1.0	0.41	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	44		0.50	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	7.6		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6020A	Metals (ICP/MS)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
9060A	Organic Carbon, Total (TOC)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Sample Summary

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221852-1	Trip Blank	Water	08/31/22 00:00	09/07/22 10:25
500-221852-2	Duplicate #1	Water	08/31/22 00:00	09/07/22 10:25
500-221852-3	Duplicate #2	Water	08/31/22 00:00	09/07/22 10:25
500-221852-4	P-5	Water	08/31/22 09:21	09/07/22 10:25
500-221852-5	MW-5	Water	08/31/22 10:01	09/07/22 10:25
500-221852-6	TW-12	Water	08/31/22 11:28	09/07/22 10:25
500-221852-7	TW-10	Water	08/31/22 12:16	09/07/22 10:25
500-221852-8	P-10	Water	08/31/22 13:35	09/07/22 10:25
500-221852-9	MW-10	Water	08/31/22 14:46	09/07/22 10:25
500-221852-10	MW-21	Water	08/31/22 15:31	09/07/22 10:25
500-221852-11	MW-15	Water	09/01/22 10:35	09/07/22 10:25
500-221852-12	MW-19	Water	09/01/22 11:24	09/07/22 10:25
500-221852-13	MW-23	Water	09/01/22 12:07	09/07/22 10:25
500-221852-14	MW-22	Water	09/01/22 12:57	09/07/22 10:25
500-221852-15	MW-20	Water	09/01/22 13:37	09/07/22 10:25
500-221852-16	MW-1	Water	09/01/22 14:52	09/07/22 10:25
500-221852-17	MW-9	Water	09/01/22 15:38	09/07/22 10:25
500-221852-18	MW-17	Water	09/01/22 16:20	09/07/22 10:25
500-221852-19	Duplicate #3	Water	09/01/22 00:00	09/07/22 10:25
500-221852-20	Duplicate #4	Water	09/01/22 00:00	09/07/22 10:25
500-221852-21	TW-6	Water	09/02/22 09:38	09/07/22 10:25
500-221852-22	TW-4	Water	09/02/22 10:27	09/07/22 10:25
500-221852-23	P-11	Water	09/02/22 11:40	09/07/22 10:25
500-221852-24	MW-11	Water	09/02/22 12:10	09/07/22 10:25
500-221852-25	MW-7	Water	09/02/22 13:18	09/07/22 10:25
500-221852-26	P-7	Water	09/02/22 13:46	09/07/22 10:25
500-221852-27	MW-16	Water	09/02/22 14:24	09/07/22 10:25
500-221852-28	P-16	Water	09/02/22 14:53	09/07/22 10:25
500-221852-29	P-13	Water	09/02/22 15:46	09/07/22 10:25
500-221852-30	MW-13	Water	09/02/22 16:15	09/07/22 10:25
500-221852-31	MW-12	Water	09/03/22 10:42	09/07/22 10:25
500-221852-32	P-12	Water	09/03/22 11:01	09/07/22 10:25
500-221852-33	P-8	Water	09/03/22 11:32	09/07/22 10:25
500-221852-34	MW-8	Water	09/03/22 11:50	09/07/22 10:25
500-221852-35	MW-14	Water	09/03/22 12:16	09/07/22 10:25

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-221852-1**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 12:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 12:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 12:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 12:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 12:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 12:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 12:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 12:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 12:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 12:11	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 12:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 12:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 12:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 12:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 12:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 12:11	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 12:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 12:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 12:11	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 12:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 12:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 12:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/13/22 12:11	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 12:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 12:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/13/22 12:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 12:11	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 12:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 12:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 12:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 12:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 12:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 12:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/13/22 12:11	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 12:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 12:11	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-221852-1**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:11	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 12:11	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 12:11	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 12:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/22 12:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 12:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/13/22 12:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 12:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/13/22 12:11	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		09/13/22 12:11	1
4-Bromofluorobenzene (Surr)	83		72 - 124		09/13/22 12:11	1
Dibromofluoromethane	104		75 - 120		09/13/22 12:11	1
Toluene-d8 (Surr)	95		75 - 120		09/13/22 12:11	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #1**

**Lab Sample ID: 500-221852-2**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 12:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 12:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 12:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 12:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 12:58	1
<b>1,1-Dichloroethene</b>	<b>3.8</b>		1.0	0.39	ug/L			09/13/22 12:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 12:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 12:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 12:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 12:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 12:58	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 12:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 12:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 12:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 12:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 12:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 12:58	1
<b>Benzene</b>	<b>0.30 J</b>		0.50	0.15	ug/L			09/13/22 12:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 12:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 12:58	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 12:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 12:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 12:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
<b>Chloroethane</b>	<b>5.2</b>		1.0	0.51	ug/L			09/13/22 12:58	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 12:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 12:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 12:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 12:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 12:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 12:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 12:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 12:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 12:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
<b>Methylene Chloride</b>	<b>3.2 J</b>		5.0	1.6	ug/L			09/13/22 12:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 12:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 12:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:58	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #1**

**Lab Sample ID: 500-221852-2**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 12:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 12:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 12:58	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 12:58	1
<b>trans-1,2-Dichloroethene</b>	<b>110</b>		1.0	0.35	ug/L			09/13/22 12:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 12:58	1
<b>Trichloroethene</b>	<b>65</b>		0.50	0.16	ug/L			09/13/22 12:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 12:58	1
<b>Vinyl chloride</b>	<b>32</b>		1.0	0.20	ug/L			09/13/22 12:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		09/13/22 12:58	1
4-Bromofluorobenzene (Surr)	83		72 - 124		09/13/22 12:58	1
Dibromofluoromethane	101		75 - 120		09/13/22 12:58	1
Toluene-d8 (Surr)	96		75 - 120		09/13/22 12:58	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>1000</b>		10	4.1	ug/L			09/13/22 13:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		09/13/22 13:21	10
4-Bromofluorobenzene (Surr)	84		72 - 124		09/13/22 13:21	10
Dibromofluoromethane	108		75 - 120		09/13/22 13:21	10
Toluene-d8 (Surr)	96		75 - 120		09/13/22 13:21	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #2**

**Lab Sample ID: 500-221852-3**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/13/22 13:44	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
<b>1,1-Dichloroethene</b>	<b>7.1</b>		5.0	2.0	ug/L			09/13/22 13:44	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/13/22 13:44	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/13/22 13:44	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/13/22 13:44	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 13:44	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/13/22 13:44	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 13:44	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/13/22 13:44	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/13/22 13:44	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/13/22 13:44	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/13/22 13:44	5
Benzene	<0.73		2.5	0.73	ug/L			09/13/22 13:44	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
Bromoform	<2.4		5.0	2.4	ug/L			09/13/22 13:44	5
Bromomethane	<4.0		15	4.0	ug/L			09/13/22 13:44	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/13/22 13:44	5
Chloroform	<1.9		10	1.9	ug/L			09/13/22 13:44	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/13/22 13:44	5
<b>cis-1,2-Dichloroethene</b>	<b>650</b>		5.0	2.0	ug/L			09/13/22 13:44	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/13/22 13:44	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/13/22 13:44	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/13/22 13:44	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/13/22 13:44	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/13/22 13:44	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/13/22 13:44	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
<b>Methylene Chloride</b>	<b>18 J</b>		25	8.2	ug/L			09/13/22 13:44	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/13/22 13:44	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #2**

**Lab Sample ID: 500-221852-3**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
Styrene	<1.9		5.0	1.9	ug/L			09/13/22 13:44	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 13:44	5
<b>Tetrachloroethene</b>	<b>12</b>		5.0	1.9	ug/L			09/13/22 13:44	5
Toluene	<0.76		2.5	0.76	ug/L			09/13/22 13:44	5
<b>trans-1,2-Dichloroethene</b>	<b>10</b>		5.0	1.7	ug/L			09/13/22 13:44	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/13/22 13:44	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/13/22 13:44	5
<b>Vinyl chloride</b>	<b>32</b>		5.0	1.0	ug/L			09/13/22 13:44	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/13/22 13:44	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		09/13/22 13:44	5
4-Bromofluorobenzene (Surr)	84		72 - 124		09/13/22 13:44	5
Dibromofluoromethane	104		75 - 120		09/13/22 13:44	5
Toluene-d8 (Surr)	99		75 - 120		09/13/22 13:44	5

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>4100</b>		25	8.2	ug/L			09/13/22 14:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		09/13/22 14:07	50
4-Bromofluorobenzene (Surr)	81		72 - 124		09/13/22 14:07	50
Dibromofluoromethane	102		75 - 120		09/13/22 14:07	50
Toluene-d8 (Surr)	96		75 - 120		09/13/22 14:07	50

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-5**

**Lab Sample ID: 500-221852-4**

**Date Collected: 08/31/22 09:21**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 14:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 14:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 14:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 14:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 14:30	1
<b>1,1-Dichloroethene</b>	<b>4.2</b>		1.0	0.39	ug/L			09/13/22 14:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 14:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 14:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 14:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 14:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 14:30	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 14:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 14:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 14:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 14:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 14:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 14:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 14:30	1
<b>Benzene</b>	<b>0.34 J</b>		0.50	0.15	ug/L			09/13/22 14:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 14:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 14:30	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 14:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 14:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 14:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
<b>Chloroethane</b>	<b>5.4</b>		1.0	0.51	ug/L			09/13/22 14:30	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 14:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 14:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 14:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 14:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 14:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 14:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 14:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 14:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 14:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
<b>Methylene Chloride</b>	<b>2.5 J</b>		5.0	1.6	ug/L			09/13/22 14:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 14:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 14:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 14:30	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-5**

**Lab Sample ID: 500-221852-4**

**Date Collected: 08/31/22 09:21**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 14:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 14:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 14:30	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 14:30	1
<b>trans-1,2-Dichloroethene</b>	<b>120</b>		1.0	0.35	ug/L			09/13/22 14:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 14:30	1
<b>Trichloroethene</b>	<b>66</b>		0.50	0.16	ug/L			09/13/22 14:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 14:30	1
<b>Vinyl chloride</b>	<b>32</b>		1.0	0.20	ug/L			09/13/22 14:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		09/13/22 14:30	1
4-Bromofluorobenzene (Surr)	81		72 - 124		09/13/22 14:30	1
Dibromofluoromethane	100		75 - 120		09/13/22 14:30	1
Toluene-d8 (Surr)	98		75 - 120		09/13/22 14:30	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>890</b>		10	4.1	ug/L			09/13/22 14:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		09/13/22 14:53	10
4-Bromofluorobenzene (Surr)	79		72 - 124		09/13/22 14:53	10
Dibromofluoromethane	102		75 - 120		09/13/22 14:53	10
Toluene-d8 (Surr)	94		75 - 120		09/13/22 14:53	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-5**  
**Date Collected: 08/31/22 10:01**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-5**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/13/22 15:16	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
<b>1,1-Dichloroethene</b>	<b>6.1</b>		5.0	2.0	ug/L			09/13/22 15:16	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/13/22 15:16	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/13/22 15:16	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/13/22 15:16	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 15:16	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/13/22 15:16	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 15:16	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/13/22 15:16	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/13/22 15:16	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/13/22 15:16	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/13/22 15:16	5
Benzene	<0.73		2.5	0.73	ug/L			09/13/22 15:16	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
Bromoform	<2.4		5.0	2.4	ug/L			09/13/22 15:16	5
Bromomethane	<4.0		15	4.0	ug/L			09/13/22 15:16	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/13/22 15:16	5
Chloroform	<1.9		10	1.9	ug/L			09/13/22 15:16	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/13/22 15:16	5
<b>cis-1,2-Dichloroethene</b>	<b>610</b>		5.0	2.0	ug/L			09/13/22 15:16	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/13/22 15:16	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/13/22 15:16	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/13/22 15:16	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/13/22 15:16	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/13/22 15:16	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/13/22 15:16	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
<b>Methylene Chloride</b>	<b>11 J</b>		25	8.2	ug/L			09/13/22 15:16	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/13/22 15:16	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-5**  
**Date Collected: 08/31/22 10:01**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-5**  
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
Styrene	<1.9		5.0	1.9	ug/L			09/13/22 15:16	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 15:16	5
<b>Tetrachloroethene</b>	<b>11</b>		5.0	1.9	ug/L			09/13/22 15:16	5
Toluene	<0.76		2.5	0.76	ug/L			09/13/22 15:16	5
<b>trans-1,2-Dichloroethene</b>	<b>9.6</b>		5.0	1.7	ug/L			09/13/22 15:16	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/13/22 15:16	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/13/22 15:16	5
<b>Vinyl chloride</b>	<b>31</b>		5.0	1.0	ug/L			09/13/22 15:16	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/13/22 15:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		09/13/22 15:16	5
4-Bromofluorobenzene (Surr)	82		72 - 124		09/13/22 15:16	5
Dibromofluoromethane	103		75 - 120		09/13/22 15:16	5
Toluene-d8 (Surr)	95		75 - 120		09/13/22 15:16	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>4100</b>		25	8.2	ug/L			09/13/22 15:39	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		09/13/22 15:39	50
4-Bromofluorobenzene (Surr)	83		72 - 124		09/13/22 15:39	50
Dibromofluoromethane	104		75 - 120		09/13/22 15:39	50
Toluene-d8 (Surr)	95		75 - 120		09/13/22 15:39	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.5		7.5	1.5	ug/L			09/13/22 18:28	1
Ethene	<1.5		7.0	1.5	ug/L			09/13/22 18:28	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>480</b>		44	11	ug/L			09/13/22 22:14	11

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.99</b>	<b>J</b>	1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:22	1
Chromium	<1.1		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:22	1
<b>Iron</b>	<b>81</b>	<b>J</b>	100	47	ug/L		09/09/22 08:54	09/09/22 19:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>170</b>		20	9.5	mg/L			09/12/22 19:37	100
<b>TOC Dup</b>	<b>4.5</b>		1.0	0.47	mg/L			09/13/22 19:12	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-12**

**Lab Sample ID: 500-221852-6**

**Date Collected: 08/31/22 11:28**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 13:10	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 13:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 13:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 13:10	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 13:10	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 13:10	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 13:10	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 13:10	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 13:10	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 13:10	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 13:10	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 13:10	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 13:10	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:10	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 13:10	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 13:10	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 13:10	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 13:10	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 13:10	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 13:10	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 13:10	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 13:10	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 13:10	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 13:10	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 13:10	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 13:10	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/14/22 13:10	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 13:10	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 13:10	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 13:10	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 13:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 13:10	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 13:10	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 13:10	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
<b>Methylene Chloride</b>	<b>2.4</b>	<b>J</b>	5.0	1.6	ug/L			09/14/22 13:10	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 13:10	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 13:10	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-12**

**Lab Sample ID: 500-221852-6**

**Date Collected: 08/31/22 11:28**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:10	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 13:10	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:10	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 13:10	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 13:10	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 13:10	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 13:10	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/14/22 13:10	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 13:10	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 13:10	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		09/14/22 13:10	1
4-Bromofluorobenzene (Surr)	105		72 - 124		09/14/22 13:10	1
Dibromofluoromethane	110		75 - 120		09/14/22 13:10	1
Toluene-d8 (Surr)	94		75 - 120		09/14/22 13:10	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-10**

**Lab Sample ID: 500-221852-7**

**Date Collected: 08/31/22 12:16**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 16:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 16:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 16:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 16:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 16:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 16:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 16:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 16:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 16:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 16:25	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 16:25	1
<b>1,2-Dichloroethane</b>	<b>0.53</b>	<b>J</b>	1.0	0.39	ug/L			09/13/22 16:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 16:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 16:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 16:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 16:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 16:25	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 16:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 16:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 16:25	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 16:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 16:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 16:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/13/22 16:25	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 16:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 16:25	1
<b>cis-1,2-Dichloroethene</b>	<b>89</b>		1.0	0.41	ug/L			09/13/22 16:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 16:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 16:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 16:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 16:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 16:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 16:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 16:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
<b>Methylene Chloride</b>	<b>2.5</b>	<b>J</b>	5.0	1.6	ug/L			09/13/22 16:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 16:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 16:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-10**

**Lab Sample ID: 500-221852-7**

**Date Collected: 08/31/22 12:16**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:25	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 16:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 16:25	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 16:25	1
<b>trans-1,2-Dichloroethene</b>	<b>3.2</b>		1.0	0.35	ug/L			09/13/22 16:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 16:25	1
<b>Trichloroethene</b>	<b>37</b>		0.50	0.16	ug/L			09/13/22 16:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 16:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/13/22 16:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		09/13/22 16:25	1
4-Bromofluorobenzene (Surr)	78		72 - 124		09/13/22 16:25	1
Dibromofluoromethane	105		75 - 120		09/13/22 16:25	1
Toluene-d8 (Surr)	95		75 - 120		09/13/22 16:25	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-10**

**Lab Sample ID: 500-221852-8**

**Date Collected: 08/31/22 13:35**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 16:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 16:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 16:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 16:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 16:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 16:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 16:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 16:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 16:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 16:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 16:48	1
<b>1,2-Dichloroethane</b>	<b>33</b>		1.0	0.39	ug/L			09/13/22 16:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 16:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 16:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 16:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 16:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 16:48	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 16:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 16:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 16:48	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 16:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 16:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 16:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/13/22 16:48	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 16:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 16:48	1
<b>cis-1,2-Dichloroethene</b>	<b>20</b>		1.0	0.41	ug/L			09/13/22 16:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 16:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 16:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 16:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 16:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 16:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 16:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 16:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
<b>Methylene Chloride</b>	<b>2.4 J</b>		5.0	1.6	ug/L			09/13/22 16:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 16:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 16:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-10**

**Lab Sample ID: 500-221852-8**

**Date Collected: 08/31/22 13:35**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:48	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 16:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 16:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 16:48	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 16:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/22 16:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 16:48	1
<b>Trichloroethene</b>	<b>0.21</b>	<b>J</b>	0.50	0.16	ug/L			09/13/22 16:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 16:48	1
<b>Vinyl chloride</b>	<b>33</b>		1.0	0.20	ug/L			09/13/22 16:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		09/13/22 16:48	1
4-Bromofluorobenzene (Surr)	79		72 - 124		09/13/22 16:48	1
Dibromofluoromethane	101		75 - 120		09/13/22 16:48	1
Toluene-d8 (Surr)	96		75 - 120		09/13/22 16:48	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>2600</b>		44	11	ug/L			09/13/22 18:47	11
Ethane	<17		83	17	ug/L			09/13/22 18:47	11
Ethene	<17		77	17	ug/L			09/13/22 18:47	11

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>1.5</b>		1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:39	1
Chromium	<1.1		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:39	1
<b>Iron</b>	<b>3000</b>		100	47	ug/L		09/09/22 08:54	09/09/22 19:39	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>3.7</b>		0.20	0.095	mg/L			09/12/22 19:51	1
<b>TOC Dup</b>	<b>55</b>		5.0	2.4	mg/L			09/14/22 19:19	5

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-221852-9**

**Date Collected: 08/31/22 14:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/13/22 17:11	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
<b>1,1-Dichloroethene</b>	<b>4.5</b>	<b>J</b>	5.0	2.0	ug/L			09/13/22 17:11	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/13/22 17:11	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/13/22 17:11	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/13/22 17:11	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 17:11	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/13/22 17:11	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/13/22 17:11	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/13/22 17:11	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/13/22 17:11	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/13/22 17:11	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/13/22 17:11	5
Benzene	<0.73		2.5	0.73	ug/L			09/13/22 17:11	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
Bromoform	<2.4		5.0	2.4	ug/L			09/13/22 17:11	5
Bromomethane	<4.0		15	4.0	ug/L			09/13/22 17:11	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/13/22 17:11	5
Chloroform	<1.9		10	1.9	ug/L			09/13/22 17:11	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/13/22 17:11	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/13/22 17:11	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/13/22 17:11	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/13/22 17:11	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/13/22 17:11	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/13/22 17:11	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/13/22 17:11	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5
<b>Methylene Chloride</b>	<b>12</b>	<b>J</b>	25	8.2	ug/L			09/13/22 17:11	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/13/22 17:11	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-221852-9**

**Date Collected: 08/31/22 14:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/13/22 17:11	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/13/22 17:11	5
Toluene	<0.76		2.5	0.76	ug/L			09/13/22 17:11	5
<b>trans-1,2-Dichloroethene</b>	<b>42</b>		5.0	1.7	ug/L			09/13/22 17:11	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/13/22 17:11	5
<b>Trichloroethene</b>	<b>190</b>		2.5	0.82	ug/L			09/13/22 17:11	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/13/22 17:11	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/13/22 17:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		09/13/22 17:11	5
4-Bromofluorobenzene (Surr)	79		72 - 124		09/13/22 17:11	5
Dibromofluoromethane	102		75 - 120		09/13/22 17:11	5
Toluene-d8 (Surr)	94		75 - 120		09/13/22 17:11	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>3600</b>		50	20	ug/L			09/13/22 17:34	50
<b>Vinyl chloride</b>	<b>3800</b>		50	10	ug/L			09/13/22 17:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		09/13/22 17:34	50
4-Bromofluorobenzene (Surr)	81		72 - 124		09/13/22 17:34	50
Dibromofluoromethane	104		75 - 120		09/13/22 17:34	50
Toluene-d8 (Surr)	95		75 - 120		09/13/22 17:34	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>84</b>		7.5	1.5	ug/L			09/13/22 19:06	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>11000</b>		440	110	ug/L			09/13/22 22:33	110
<b>Ethene</b>	<b>1600</b>		770	170	ug/L			09/13/22 22:33	110

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>17</b>		1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:42	1
<b>Chromium</b>	<b>1.7 J</b>		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:42	1
<b>Iron</b>	<b>6800</b>		100	47	ug/L		09/09/22 08:54	09/09/22 19:42	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>0.27</b>		0.20	0.095	mg/L			09/12/22 20:32	1
<b>TOC Dup</b>	<b>6.6</b>		1.0	0.47	mg/L			09/13/22 19:42	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-21**  
**Date Collected: 08/31/22 15:31**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-10**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 17:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 17:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 17:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 17:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 17:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 17:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 17:57	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 17:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 17:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 17:57	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 17:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 17:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 17:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 17:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 17:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 17:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 17:57	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 17:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 17:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 17:57	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 17:57	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 17:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 17:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
<b>Chloroethane</b>	<b>6.4</b>		1.0	0.51	ug/L			09/13/22 17:57	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 17:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 17:57	1
<b>cis-1,2-Dichloroethene</b>	<b>0.93 J</b>		1.0	0.41	ug/L			09/13/22 17:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 17:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 17:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 17:57	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 17:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 17:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 17:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 17:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
<b>Methylene Chloride</b>	<b>2.3 J</b>		5.0	1.6	ug/L			09/13/22 17:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 17:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 17:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-21**

**Lab Sample ID: 500-221852-10**

**Date Collected: 08/31/22 15:31**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 17:57	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 17:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 17:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 17:57	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 17:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/22 17:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 17:57	1
<b>Trichloroethene</b>	<b>1.4</b>		0.50	0.16	ug/L			09/13/22 17:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 17:57	1
<b>Vinyl chloride</b>	<b>1.0</b>		1.0	0.20	ug/L			09/13/22 17:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		09/13/22 17:57	1
4-Bromofluorobenzene (Surr)	79		72 - 124		09/13/22 17:57	1
Dibromofluoromethane	105		75 - 120		09/13/22 17:57	1
Toluene-d8 (Surr)	94		75 - 120		09/13/22 17:57	1

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethane</b>	<b>130</b>		7.5	1.5	ug/L			09/13/22 19:25	1
Ethene	<1.5		7.0	1.5	ug/L			09/13/22 19:25	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>13000</b>		880	220	ug/L			09/13/22 22:52	220

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>19</b>		1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:46	1
Chromium	<1.1		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:46	1
<b>Iron</b>	<b>15000</b>		100	47	ug/L		09/09/22 08:54	09/09/22 19:46	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>0.14</b>	<b>J</b>	0.20	0.095	mg/L			09/12/22 21:13	1
<b>TOC Dup</b>	<b>8.2</b>		1.0	0.47	mg/L			09/13/22 19:54	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-221852-11**

**Date Collected: 09/01/22 10:35**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 18:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 18:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 18:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 18:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 18:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 18:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/13/22 18:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 18:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 18:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 18:20	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 18:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 18:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 18:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 18:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 18:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 18:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 18:20	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 18:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 18:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 18:20	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 18:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 18:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 18:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/13/22 18:20	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 18:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 18:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/13/22 18:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 18:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 18:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 18:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 18:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 18:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 18:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 18:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
<b>Methylene Chloride</b>	<b>2.4 J</b>		5.0	1.6	ug/L			09/13/22 18:20	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/13/22 18:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 18:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-15**  
**Date Collected: 09/01/22 10:35**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-11**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 18:20	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 18:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 18:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 18:20	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 18:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/22 18:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 18:20	1
<b>Trichloroethene</b>	<b>1.3</b>		0.50	0.16	ug/L			09/13/22 18:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 18:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/13/22 18:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 18:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	93		75 - 126					09/13/22 18:20	1
4-Bromofluorobenzene (Surr)	79		72 - 124					09/13/22 18:20	1
Dibromofluoromethane	106		75 - 120					09/13/22 18:20	1
Toluene-d8 (Surr)	93		75 - 120					09/13/22 18:20	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-19**

**Lab Sample ID: 500-221852-12**

**Date Collected: 09/01/22 11:24**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/14/22 17:53	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/14/22 17:53	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
<b>1,1-Dichloroethene</b>	<b>2.9</b>	<b>J</b>	5.0	2.0	ug/L			09/14/22 17:53	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/14/22 17:53	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/14/22 17:53	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/14/22 17:53	5
<b>1,2,4-Trichlorobenzene</b>	<b>2.1</b>	<b>J</b>	5.0	1.7	ug/L			09/14/22 17:53	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/14/22 17:53	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 17:53	5
<b>1,2-Dichloroethane</b>	<b>3.4</b>	<b>J</b>	5.0	2.0	ug/L			09/14/22 17:53	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
<b>1,3,5-Trimethylbenzene</b>	<b>1.3</b>	<b>J</b>	5.0	1.3	ug/L			09/14/22 17:53	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/14/22 17:53	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5
<b>1,4-Dichlorobenzene</b>	<b>2.1</b>	<b>J</b>	5.0	1.8	ug/L			09/14/22 17:53	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/14/22 17:53	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/14/22 17:53	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/14/22 17:53	5
Benzene	<0.73		2.5	0.73	ug/L			09/14/22 17:53	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
Bromoform	<2.4		5.0	2.4	ug/L			09/14/22 17:53	5
Bromomethane	<4.0		15	4.0	ug/L			09/14/22 17:53	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
<b>Chloroethane</b>	<b>12</b>		5.0	2.5	ug/L			09/14/22 17:53	5
Chloroform	<1.9		10	1.9	ug/L			09/14/22 17:53	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/14/22 17:53	5
<b>cis-1,2-Dichloroethene</b>	<b>700</b>		5.0	2.0	ug/L			09/14/22 17:53	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/14/22 17:53	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/14/22 17:53	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/14/22 17:53	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/14/22 17:53	5
<b>Hexachlorobutadiene</b>	<b>3.2</b>	<b>J</b>	5.0	2.2	ug/L			09/14/22 17:53	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/14/22 17:53	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/14/22 17:53	5
<b>Methylene Chloride</b>	<b>11</b>	<b>J</b>	25	8.2	ug/L			09/14/22 17:53	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/14/22 17:53	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-19**

**Lab Sample ID: 500-221852-12**

**Date Collected: 09/01/22 11:24**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 17:53	5
Styrene	<1.9		5.0	1.9	ug/L			09/14/22 17:53	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 17:53	5
<b>Tetrachloroethene</b>	<b>2.9</b>	<b>J</b>	5.0	1.9	ug/L			09/14/22 17:53	5
<b>Toluene</b>	<b>1.2</b>	<b>J</b>	2.5	0.76	ug/L			09/14/22 17:53	5
<b>trans-1,2-Dichloroethene</b>	<b>24</b>		5.0	1.7	ug/L			09/14/22 17:53	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/14/22 17:53	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/14/22 17:53	5
<b>Vinyl chloride</b>	<b>190</b>		5.0	1.0	ug/L			09/14/22 17:53	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/14/22 17:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		09/14/22 17:53	5
4-Bromofluorobenzene (Surr)	112		72 - 124		09/14/22 17:53	5
Dibromofluoromethane	106		75 - 120		09/14/22 17:53	5
Toluene-d8 (Surr)	100		75 - 120		09/14/22 17:53	5

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>3900</b>		25	8.2	ug/L			09/14/22 18:16	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		09/14/22 18:16	50
4-Bromofluorobenzene (Surr)	111		72 - 124		09/14/22 18:16	50
Dibromofluoromethane	105		75 - 120		09/14/22 18:16	50
Toluene-d8 (Surr)	97		75 - 120		09/14/22 18:16	50

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-23**

**Lab Sample ID: 500-221852-13**

**Date Collected: 09/01/22 12:07**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/14/22 18:40	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/14/22 18:40	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/14/22 18:40	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/14/22 18:40	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 18:40	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/14/22 18:40	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 18:40	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/14/22 18:40	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/14/22 18:40	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/14/22 18:40	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/14/22 18:40	5
Benzene	<0.73		2.5	0.73	ug/L			09/14/22 18:40	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
Bromoform	<2.4		5.0	2.4	ug/L			09/14/22 18:40	5
Bromomethane	<4.0		15	4.0	ug/L			09/14/22 18:40	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
<b>Chloroethane</b>	<b>5.0</b>		5.0	2.5	ug/L			09/14/22 18:40	5
Chloroform	<1.9		10	1.9	ug/L			09/14/22 18:40	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/14/22 18:40	5
<b>cis-1,2-Dichloroethene</b>	<b>430</b>		5.0	2.0	ug/L			09/14/22 18:40	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/14/22 18:40	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/14/22 18:40	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/14/22 18:40	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/14/22 18:40	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/14/22 18:40	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/14/22 18:40	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
<b>Methylene Chloride</b>	<b>10 J</b>		25	8.2	ug/L			09/14/22 18:40	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/14/22 18:40	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-23**

**Lab Sample ID: 500-221852-13**

**Date Collected: 09/01/22 12:07**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
Styrene	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 18:40	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/14/22 18:40	5
Toluene	<0.76		2.5	0.76	ug/L			09/14/22 18:40	5
<b>trans-1,2-Dichloroethene</b>	<b>120</b>		5.0	1.7	ug/L			09/14/22 18:40	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/14/22 18:40	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/14/22 18:40	5
<b>Vinyl chloride</b>	<b>450</b>		5.0	1.0	ug/L			09/14/22 18:40	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/14/22 18:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		09/14/22 18:40	5
4-Bromofluorobenzene (Surr)	110		72 - 124		09/14/22 18:40	5
Dibromofluoromethane	107		75 - 120		09/14/22 18:40	5
Toluene-d8 (Surr)	96		75 - 120		09/14/22 18:40	5

## Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>3700</b>		25	8.2	ug/L			09/14/22 19:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		09/14/22 19:03	50
4-Bromofluorobenzene (Surr)	111		72 - 124		09/14/22 19:03	50
Dibromofluoromethane	106		75 - 120		09/14/22 19:03	50
Toluene-d8 (Surr)	97		75 - 120		09/14/22 19:03	50

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	<1.5		7.5	1.5	ug/L			09/13/22 19:44	1
<b>Ethene</b>	<b>7.8</b>		7.0	1.5	ug/L			09/13/22 19:44	1

## Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>980</b>		44	11	ug/L			09/13/22 23:11	11

## Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.82</b>	<b>J</b>	1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:56	1
Chromium	<1.1		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:56	1
<b>Iron</b>	<b>140</b>		100	47	ug/L		09/09/22 08:54	09/09/22 19:56	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Sulfate</b>	<b>36</b>		2.0	0.95	mg/L			09/12/22 21:26	10
<b>TOC Dup</b>	<b>2.3</b>		1.0	0.47	mg/L			09/13/22 20:08	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-22**  
**Date Collected: 09/01/22 12:57**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-14**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 19:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 19:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 19:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 19:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 19:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 19:27	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 19:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 19:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 19:27	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 19:27	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 19:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 19:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 19:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 19:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 19:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 19:27	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 19:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 19:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 19:27	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 19:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 19:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 19:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 19:27	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 19:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 19:27	1
<b>cis-1,2-Dichloroethene</b>	<b>1.8</b>		1.0	0.41	ug/L			09/14/22 19:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 19:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 19:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 19:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 19:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 19:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 19:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 19:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
<b>Methylene Chloride</b>	<b>2.1 J</b>		5.0	1.6	ug/L			09/14/22 19:27	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 19:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 19:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-22**

**Lab Sample ID: 500-221852-14**

**Date Collected: 09/01/22 12:57**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:27	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 19:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 19:27	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 19:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 19:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 19:27	1
<b>Trichloroethene</b>	<b>44</b>		0.50	0.16	ug/L			09/14/22 19:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 19:27	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 19:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		09/14/22 19:27	1
4-Bromofluorobenzene (Surr)	108		72 - 124		09/14/22 19:27	1
Dibromofluoromethane	107		75 - 120		09/14/22 19:27	1
Toluene-d8 (Surr)	96		75 - 120		09/14/22 19:27	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-221852-15**

**Date Collected: 09/01/22 13:37**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 19:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 19:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 19:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 19:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 19:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 19:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 19:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 19:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 19:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 19:50	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 19:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 19:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 19:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 19:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 19:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 19:50	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 19:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 19:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 19:50	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 19:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 19:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 19:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 19:50	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 19:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 19:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/14/22 19:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 19:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 19:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 19:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 19:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 19:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 19:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 19:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
<b>Methylene Chloride</b>	<b>6.3</b>		5.0	1.6	ug/L			09/14/22 19:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 19:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 19:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-221852-15**

**Date Collected: 09/01/22 13:37**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:50	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 19:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 19:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 19:50	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 19:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 19:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 19:50	1
<b>Trichloroethene</b>	<b>0.47</b>	<b>J</b>	0.50	0.16	ug/L			09/14/22 19:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 19:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 19:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		09/14/22 19:50	1
4-Bromofluorobenzene (Surr)	110		72 - 124		09/14/22 19:50	1
Dibromofluoromethane	106		75 - 120		09/14/22 19:50	1
Toluene-d8 (Surr)	97		75 - 120		09/14/22 19:50	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-1**

**Lab Sample ID: 500-221852-16**

**Date Collected: 09/01/22 14:52**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 14:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 14:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 14:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 14:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 14:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 14:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 14:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 14:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 14:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 14:24	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 14:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 14:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 14:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 14:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 14:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 14:24	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 14:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 14:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 14:24	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 14:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 14:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 14:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 14:24	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 14:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 14:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/14/22 14:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 14:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 14:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 14:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 14:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 14:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 14:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 14:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
<b>Methylene Chloride</b>	<b>4.8</b>	<b>J B</b>	5.0	1.6	ug/L			09/14/22 14:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 14:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 14:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-1**

**Lab Sample ID: 500-221852-16**

**Date Collected: 09/01/22 14:52**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:24	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 14:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 14:24	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 14:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 14:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 14:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/14/22 14:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 14:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 14:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/14/22 14:24	1
4-Bromofluorobenzene (Surr)	107		72 - 124		09/14/22 14:24	1
Dibromofluoromethane	93		75 - 120		09/14/22 14:24	1
Toluene-d8 (Surr)	92		75 - 120		09/14/22 14:24	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-221852-17**

**Date Collected: 09/01/22 15:38**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 14:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 14:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 14:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 14:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 14:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 14:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 14:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 14:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 14:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 14:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 14:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 14:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 14:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 14:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 14:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 14:48	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 14:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 14:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 14:48	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 14:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 14:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 14:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 14:48	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 14:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 14:48	1
<b>cis-1,2-Dichloroethene</b>	<b>9.0</b>		1.0	0.41	ug/L			09/14/22 14:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 14:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 14:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 14:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 14:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 14:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 14:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 14:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
<b>Methylene Chloride</b>	<b>4.7 J B</b>		5.0	1.6	ug/L			09/14/22 14:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 14:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 14:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-221852-17**

**Date Collected: 09/01/22 15:38**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:48	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 14:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 14:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 14:48	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 14:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 14:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 14:48	1
<b>Trichloroethene</b>	<b>6.9</b>		0.50	0.16	ug/L			09/14/22 14:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 14:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 14:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		09/14/22 14:48	1
4-Bromofluorobenzene (Surr)	107		72 - 124		09/14/22 14:48	1
Dibromofluoromethane	93		75 - 120		09/14/22 14:48	1
Toluene-d8 (Surr)	91		75 - 120		09/14/22 14:48	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-221852-18**

**Date Collected: 09/01/22 16:20**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 15:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 15:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 15:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 15:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 15:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 15:12	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 15:12	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 15:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 15:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 15:12	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 15:12	1
<b>1,2-Dichloroethane</b>	<b>2.8</b>		1.0	0.39	ug/L			09/14/22 15:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 15:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 15:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 15:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 15:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 15:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 15:12	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 15:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 15:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 15:12	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 15:12	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 15:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 15:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 15:12	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 15:12	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 15:12	1
<b>cis-1,2-Dichloroethene</b>	<b>2.7</b>		1.0	0.41	ug/L			09/14/22 15:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 15:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 15:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 15:12	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 15:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 15:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 15:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 15:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
<b>Methylene Chloride</b>	<b>5.0 B</b>		5.0	1.6	ug/L			09/14/22 15:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 15:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 15:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-221852-18**

**Date Collected: 09/01/22 16:20**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 15:12	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 15:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 15:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 15:12	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 15:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 15:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 15:12	1
<b>Trichloroethene</b>	<b>1.1</b>		0.50	0.16	ug/L			09/14/22 15:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 15:12	1
<b>Vinyl chloride</b>	<b>17</b>		1.0	0.20	ug/L			09/14/22 15:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		09/14/22 15:12	1
4-Bromofluorobenzene (Surr)	105		72 - 124		09/14/22 15:12	1
Dibromofluoromethane	93		75 - 120		09/14/22 15:12	1
Toluene-d8 (Surr)	91		75 - 120		09/14/22 15:12	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #3**

**Lab Sample ID: 500-221852-19**

**Date Collected: 09/01/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/14/22 15:37	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
<b>1,1-Dichloroethene</b>	<b>2.6</b>	<b>J</b>	5.0	2.0	ug/L			09/14/22 15:37	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/14/22 15:37	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/14/22 15:37	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/14/22 15:37	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 15:37	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/14/22 15:37	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 15:37	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/14/22 15:37	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/14/22 15:37	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/14/22 15:37	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/14/22 15:37	5
Benzene	<0.73		2.5	0.73	ug/L			09/14/22 15:37	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
Bromoform	<2.4		5.0	2.4	ug/L			09/14/22 15:37	5
Bromomethane	<4.0		15	4.0	ug/L			09/14/22 15:37	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
<b>Chloroethane</b>	<b>19</b>		5.0	2.5	ug/L			09/14/22 15:37	5
Chloroform	<1.9		10	1.9	ug/L			09/14/22 15:37	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/14/22 15:37	5
<b>cis-1,2-Dichloroethene</b>	<b>630</b>		5.0	2.0	ug/L			09/14/22 15:37	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/14/22 15:37	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/14/22 15:37	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/14/22 15:37	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/14/22 15:37	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/14/22 15:37	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/14/22 15:37	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
<b>Methylene Chloride</b>	<b>27</b>	<b>B</b>	25	8.2	ug/L			09/14/22 15:37	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/14/22 15:37	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #3**

**Lab Sample ID: 500-221852-19**

**Date Collected: 09/01/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
Styrene	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 15:37	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/14/22 15:37	5
Toluene	<0.76		2.5	0.76	ug/L			09/14/22 15:37	5
<b>trans-1,2-Dichloroethene</b>	<b>22</b>		5.0	1.7	ug/L			09/14/22 15:37	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/14/22 15:37	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/14/22 15:37	5
<b>Vinyl chloride</b>	<b>140</b>		5.0	1.0	ug/L			09/14/22 15:37	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/14/22 15:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/14/22 15:37	5
4-Bromofluorobenzene (Surr)	105		72 - 124		09/14/22 15:37	5
Dibromofluoromethane	92		75 - 120		09/14/22 15:37	5
Toluene-d8 (Surr)	91		75 - 120		09/14/22 15:37	5

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>3200</b>		25	8.2	ug/L			09/14/22 16:01	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		09/14/22 16:01	50
4-Bromofluorobenzene (Surr)	108		72 - 124		09/14/22 16:01	50
Dibromofluoromethane	93		75 - 120		09/14/22 16:01	50
Toluene-d8 (Surr)	91		75 - 120		09/14/22 16:01	50

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #4**

**Lab Sample ID: 500-221852-20**

**Date Collected: 09/01/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/14/22 16:25	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/14/22 16:25	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/14/22 16:25	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/14/22 16:25	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 16:25	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/14/22 16:25	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/14/22 16:25	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			09/14/22 16:25	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/14/22 16:25	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/14/22 16:25	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/14/22 16:25	5
Benzene	<0.73		2.5	0.73	ug/L			09/14/22 16:25	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
Bromoform	<2.4		5.0	2.4	ug/L			09/14/22 16:25	5
Bromomethane	<4.0		15	4.0	ug/L			09/14/22 16:25	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/14/22 16:25	5
Chloroform	<1.9		10	1.9	ug/L			09/14/22 16:25	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/14/22 16:25	5
<b>cis-1,2-Dichloroethene</b>	<b>9.8</b>		5.0	2.0	ug/L			09/14/22 16:25	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/14/22 16:25	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/14/22 16:25	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/14/22 16:25	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/14/22 16:25	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/14/22 16:25	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/14/22 16:25	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
<b>Methylene Chloride</b>	<b>25 B</b>		25	8.2	ug/L			09/14/22 16:25	5
Naphthalene	<1.7		5.0	1.7	ug/L			09/14/22 16:25	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Duplicate #4**

**Lab Sample ID: 500-221852-20**

**Date Collected: 09/01/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
Styrene	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			09/14/22 16:25	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/14/22 16:25	5
Toluene	<0.76		2.5	0.76	ug/L			09/14/22 16:25	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			09/14/22 16:25	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/14/22 16:25	5
<b>Trichloroethene</b>	<b>7.7</b>		2.5	0.82	ug/L			09/14/22 16:25	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			09/14/22 16:25	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			09/14/22 16:25	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			09/14/22 16:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 126		09/14/22 16:25	5
4-Bromofluorobenzene (Surr)	106		72 - 124		09/14/22 16:25	5
Dibromofluoromethane	93		75 - 120		09/14/22 16:25	5
Toluene-d8 (Surr)	91		75 - 120		09/14/22 16:25	5

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-6**

**Lab Sample ID: 500-221852-21**

**Date Collected: 09/02/22 09:38**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 19:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 19:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 19:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 19:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 19:32	1
<b>1,1-Dichloroethene</b>	<b>0.74</b>	<b>J</b>	1.0	0.39	ug/L			09/15/22 19:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 19:32	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 19:32	1
<b>1,2,3-Trichloropropane</b>	<b>11</b>		2.0	0.41	ug/L			09/15/22 19:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 19:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 19:32	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 19:32	1
<b>1,2-Dichloroethane</b>	<b>2.7</b>		1.0	0.39	ug/L			09/15/22 19:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 19:32	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 19:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 19:32	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 19:32	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 19:32	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 19:32	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 19:32	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 19:32	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 19:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 19:32	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 19:32	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 19:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 19:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 19:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 19:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 19:32	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 19:32	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 19:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 19:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 19:32	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 19:32	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 19:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 19:32	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:32	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-6**

**Lab Sample ID: 500-221852-21**

**Date Collected: 09/02/22 09:38**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 19:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:32	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 19:32	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 19:32	1
<b>trans-1,2-Dichloroethene</b>	<b>25</b>		1.0	0.35	ug/L			09/15/22 19:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 19:32	1
<b>Trichloroethene</b>	<b>31</b>		0.50	0.16	ug/L			09/15/22 19:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:32	1
<b>Vinyl chloride</b>	<b>50</b>		1.0	0.20	ug/L			09/15/22 19:32	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		09/15/22 19:32	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/15/22 19:32	1
Dibromofluoromethane	93		75 - 120		09/15/22 19:32	1
Toluene-d8 (Surr)	91		75 - 120		09/15/22 19:32	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>250</b>		10	4.1	ug/L			09/16/22 12:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		09/16/22 12:04	10
4-Bromofluorobenzene (Surr)	85		72 - 124		09/16/22 12:04	10
Dibromofluoromethane	98		75 - 120		09/16/22 12:04	10
Toluene-d8 (Surr)	101		75 - 120		09/16/22 12:04	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-4**

**Lab Sample ID: 500-221852-22**

**Date Collected: 09/02/22 10:27**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 19:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 19:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 19:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 19:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 19:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 19:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 19:56	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 19:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 19:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 19:56	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 19:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 19:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 19:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 19:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 19:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 19:56	1
<b>Benzene</b>	<b>1.5</b>		0.50	0.15	ug/L			09/15/22 19:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 19:56	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 19:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 19:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 19:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 19:56	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 19:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 19:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 19:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 19:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 19:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 19:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 19:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 19:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 19:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 19:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 19:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 19:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 19:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-4**

**Lab Sample ID: 500-221852-22**

**Date Collected: 09/02/22 10:27**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:56	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 19:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 19:56	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 19:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 19:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 19:56	1
<b>Trichloroethene</b>	<b>0.59</b>		0.50	0.16	ug/L			09/15/22 19:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 19:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/15/22 19:56	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/15/22 19:56	1
Dibromofluoromethane	93		75 - 120		09/15/22 19:56	1
Toluene-d8 (Surr)	92		75 - 120		09/15/22 19:56	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-11**

**Lab Sample ID: 500-221852-23**

**Date Collected: 09/02/22 11:40**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 16:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 16:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 16:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 16:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 16:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 16:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 16:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 16:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 16:14	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.75</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 16:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 16:14	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 16:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 16:14	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.78</b>	<b>J B</b>	1.0	0.25	ug/L			09/15/22 16:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 16:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 16:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 16:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 16:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 16:14	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 16:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 16:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 16:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 16:14	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 16:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 16:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 16:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 16:14	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 16:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 16:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 16:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 16:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 16:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 16:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 16:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 16:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 16:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 16:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 16:14	1
<b>Naphthalene</b>	<b>0.74</b>	<b>J B</b>	1.0	0.34	ug/L			09/15/22 16:14	1
<b>n-Butylbenzene</b>	<b>0.64</b>	<b>J B</b>	1.0	0.39	ug/L			09/15/22 16:14	1
<b>N-Propylbenzene</b>	<b>0.61</b>	<b>J B</b>	1.0	0.41	ug/L			09/15/22 16:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 16:14	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-11**

**Lab Sample ID: 500-221852-23**

**Date Collected: 09/02/22 11:40**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:14	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 16:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 16:14	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 16:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 16:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 16:14	1
<b>Trichloroethene</b>	<b>0.39</b>	<b>J</b>	0.50	0.16	ug/L			09/15/22 16:14	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 16:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 16:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		09/15/22 16:14	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 16:14	1
Dibromofluoromethane	92		75 - 120		09/15/22 16:14	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 16:14	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-221852-24**

**Date Collected: 09/02/22 12:10**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 16:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 16:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 16:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 16:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 16:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 16:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 16:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 16:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 16:41	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 16:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 16:41	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 16:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 16:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 16:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 16:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 16:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 16:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 16:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 16:41	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 16:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 16:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 16:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 16:41	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 16:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 16:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 16:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 16:41	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 16:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 16:41	1
<b>cis-1,2-Dichloroethene</b>	<b>0.97</b>	<b>J</b>	1.0	0.41	ug/L			09/15/22 16:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 16:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 16:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 16:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 16:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 16:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 16:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 16:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 16:41	1
<b>Naphthalene</b>	<b>0.71</b>	<b>J B</b>	1.0	0.34	ug/L			09/15/22 16:41	1
<b>n-Butylbenzene</b>	<b>0.63</b>	<b>J B</b>	1.0	0.39	ug/L			09/15/22 16:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 16:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 16:41	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-221852-24**

**Date Collected: 09/02/22 12:10**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:41	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 16:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 16:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 16:41	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 16:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 16:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 16:41	1
<b>Trichloroethene</b>	<b>12</b>		0.50	0.16	ug/L			09/15/22 16:41	1
Trichlorofluoromethane	<0.43	*	1.0	0.43	ug/L			09/15/22 16:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 16:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		09/15/22 16:41	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 16:41	1
Dibromofluoromethane	93		75 - 120		09/15/22 16:41	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 16:41	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-7**  
**Date Collected: 09/02/22 13:18**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-25**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 17:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 17:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 17:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 17:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 17:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 17:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 17:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 17:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 17:07	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 17:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 17:07	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 17:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 17:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 17:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 17:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 17:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 17:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 17:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 17:07	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 17:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 17:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 17:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 17:07	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 17:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 17:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 17:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 17:07	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 17:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 17:07	1
<b>cis-1,2-Dichloroethene</b>	<b>2.8</b>		1.0	0.41	ug/L			09/15/22 17:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 17:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 17:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 17:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 17:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 17:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 17:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 17:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 17:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 17:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 17:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 17:07	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-221852-25**

**Date Collected: 09/02/22 13:18**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:07	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 17:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 17:07	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 17:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 17:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 17:07	1
<b>Trichloroethene</b>	<b>7.5</b>		0.50	0.16	ug/L			09/15/22 17:07	1
Trichlorofluoromethane	<0.43	*	1.0	0.43	ug/L			09/15/22 17:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 17:07	1
<b>Xylenes, Total</b>	<b>0.31</b>	<b>J</b>	1.0	0.22	ug/L			09/15/22 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		09/15/22 17:07	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 17:07	1
Dibromofluoromethane	94		75 - 120		09/15/22 17:07	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 17:07	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-7**

**Lab Sample ID: 500-221852-26**

**Date Collected: 09/02/22 13:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 17:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 17:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 17:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 17:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 17:34	1
<b>1,1-Dichloroethene</b>	<b>0.57</b>	<b>J</b>	1.0	0.39	ug/L			09/15/22 17:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 17:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 17:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 17:34	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 17:34	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 17:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 17:34	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 17:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 17:34	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 17:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 17:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 17:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 17:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 17:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 17:34	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 17:34	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 17:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 17:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 17:34	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 17:34	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 17:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 17:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
<b>Chloroethane</b>	<b>8.6</b>		1.0	0.51	ug/L			09/15/22 17:34	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 17:34	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 17:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 17:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 17:34	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 17:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 17:34	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 17:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 17:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 17:34	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 17:34	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 17:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 17:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 17:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:34	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-7**

**Lab Sample ID: 500-221852-26**

**Date Collected: 09/02/22 13:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 17:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 17:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 17:34	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 17:34	1
<b>trans-1,2-Dichloroethene</b>	<b>3.6</b>		1.0	0.35	ug/L			09/15/22 17:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 17:34	1
<b>Trichloroethene</b>	<b>15</b>		0.50	0.16	ug/L			09/15/22 17:34	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 17:34	1
<b>Vinyl chloride</b>	<b>47</b>		1.0	0.20	ug/L			09/15/22 17:34	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		09/15/22 17:34	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 17:34	1
Dibromofluoromethane	95		75 - 120		09/15/22 17:34	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 17:34	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>130</b>		10	4.1	ug/L			09/16/22 12:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		09/16/22 12:27	10
4-Bromofluorobenzene (Surr)	85		72 - 124		09/16/22 12:27	10
Dibromofluoromethane	97		75 - 120		09/16/22 12:27	10
Toluene-d8 (Surr)	100		75 - 120		09/16/22 12:27	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-16**

**Lab Sample ID: 500-221852-27**

**Date Collected: 09/02/22 14:24**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 18:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 18:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 18:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 18:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 18:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 18:00	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 18:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 18:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 18:00	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 18:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 18:00	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 18:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 18:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 18:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 18:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 18:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 18:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 18:00	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 18:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 18:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 18:00	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 18:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 18:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 18:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 18:00	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 18:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 18:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 18:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 18:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 18:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 18:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 18:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 18:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 18:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 18:00	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 18:00	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 18:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 18:00	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 18:00	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-16**  
**Date Collected: 09/02/22 14:24**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-27**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:00	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 18:00	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 18:00	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 18:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 18:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 18:00	1
<b>Trichloroethene</b>	<b>0.36</b>	<b>J</b>	0.50	0.16	ug/L			09/15/22 18:00	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 18:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 18:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 18:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	88		75 - 126					09/15/22 18:00	1
4-Bromofluorobenzene (Surr)	119		72 - 124					09/15/22 18:00	1
Dibromofluoromethane	91		75 - 120					09/15/22 18:00	1
Toluene-d8 (Surr)	101		75 - 120					09/15/22 18:00	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-16**

**Lab Sample ID: 500-221852-28**

**Date Collected: 09/02/22 14:53**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 18:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 18:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 18:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 18:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 18:27	1
<b>1,1-Dichloroethene</b>	<b>0.69</b>	<b>J</b>	1.0	0.39	ug/L			09/15/22 18:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 18:27	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 18:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 18:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 18:27	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 18:27	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 18:27	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 18:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 18:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 18:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 18:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 18:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 18:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 18:27	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 18:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 18:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 18:27	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 18:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 18:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 18:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 18:27	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 18:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 18:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 18:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 18:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 18:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 18:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 18:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 18:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 18:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 18:27	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 18:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 18:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 18:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:27	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-16**

**Lab Sample ID: 500-221852-28**

**Date Collected: 09/02/22 14:53**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 18:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 18:27	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 18:27	1
<b>trans-1,2-Dichloroethene</b>	<b>10</b>		1.0	0.35	ug/L			09/15/22 18:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 18:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/15/22 18:27	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 18:27	1
<b>Vinyl chloride</b>	<b>24</b>		1.0	0.20	ug/L			09/15/22 18:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		09/15/22 18:27	1
4-Bromofluorobenzene (Surr)	105		72 - 124		09/15/22 18:27	1
Dibromofluoromethane	95		75 - 120		09/15/22 18:27	1
Toluene-d8 (Surr)	93		75 - 120		09/15/22 18:27	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>160</b>		10	4.1	ug/L			09/16/22 12:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		09/16/22 12:50	10
4-Bromofluorobenzene (Surr)	82		72 - 124		09/16/22 12:50	10
Dibromofluoromethane	95		75 - 120		09/16/22 12:50	10
Toluene-d8 (Surr)	102		75 - 120		09/16/22 12:50	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-13**

**Lab Sample ID: 500-221852-29**

**Date Collected: 09/02/22 15:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 18:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 18:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 18:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 18:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 18:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 18:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 18:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 18:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 18:54	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.73</b>	<b>J B</b>	1.0	0.36	ug/L			09/15/22 18:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 18:54	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 18:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 18:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 18:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 18:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 18:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 18:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 18:54	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 18:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 18:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 18:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 18:54	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 18:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 18:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 18:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 18:54	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 18:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 18:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 18:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 18:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 18:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 18:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 18:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 18:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 18:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 18:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 18:54	1
<b>Naphthalene</b>	<b>0.70</b>	<b>J B</b>	1.0	0.34	ug/L			09/15/22 18:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 18:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 18:54	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-13**

**Lab Sample ID: 500-221852-29**

**Date Collected: 09/02/22 15:46**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:54	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 18:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 18:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 18:54	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 18:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 18:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 18:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/15/22 18:54	1
Trichlorofluoromethane	<0.43	*	1.0	0.43	ug/L			09/15/22 18:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 18:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		09/15/22 18:54	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 18:54	1
Dibromofluoromethane	95		75 - 120		09/15/22 18:54	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 18:54	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-221852-30**

**Date Collected: 09/02/22 16:15**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 19:20	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 19:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 19:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 19:20	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 19:20	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 19:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 19:20	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 19:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 19:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 19:20	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 19:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 19:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 19:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 19:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 19:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 19:20	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 19:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 19:20	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 19:20	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 19:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 19:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 19:20	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 19:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 19:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 19:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 19:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 19:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 19:20	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 19:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 19:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 19:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 19:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 19:20	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 19:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 19:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-13**  
**Date Collected: 09/02/22 16:15**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-30**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:20	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 19:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:20	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 19:20	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 19:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 19:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 19:20	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/15/22 19:20	1
Trichlorofluoromethane	<0.43	*	1.0	0.43	ug/L			09/15/22 19:20	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 19:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 126		09/15/22 19:20	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/15/22 19:20	1
Dibromofluoromethane	96		75 - 120		09/15/22 19:20	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 19:20	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-221852-31**

**Date Collected: 09/03/22 10:42**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			09/15/22 15:47	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			09/15/22 15:47	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			09/15/22 15:47	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			09/15/22 15:47	5
<b>1,1-Dichloroethene</b>	<b>9.1</b>		5.0	2.0	ug/L			09/15/22 15:47	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			09/15/22 15:47	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			09/15/22 15:47	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			09/15/22 15:47	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			09/15/22 15:47	5
<b>1,2,4-Trimethylbenzene</b>	<b>3.9 J B</b>		5.0	1.8	ug/L			09/15/22 15:47	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			09/15/22 15:47	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			09/15/22 15:47	5
<b>1,2-Dichloroethane</b>	<b>5.9</b>		5.0	2.0	ug/L			09/15/22 15:47	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			09/15/22 15:47	5
<b>1,3,5-Trimethylbenzene</b>	<b>4.0 J B</b>		5.0	1.3	ug/L			09/15/22 15:47	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			09/15/22 15:47	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			09/15/22 15:47	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			09/15/22 15:47	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			09/15/22 15:47	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			09/15/22 15:47	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			09/15/22 15:47	5
Benzene	<0.73		2.5	0.73	ug/L			09/15/22 15:47	5
Bromobenzene	<1.8		5.0	1.8	ug/L			09/15/22 15:47	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			09/15/22 15:47	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
Bromoform	<2.4		5.0	2.4	ug/L			09/15/22 15:47	5
Bromomethane	<4.0		15	4.0	ug/L			09/15/22 15:47	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
Chloroethane	<2.5		5.0	2.5	ug/L			09/15/22 15:47	5
Chloroform	<1.9		10	1.9	ug/L			09/15/22 15:47	5
Chloromethane	<1.6		5.0	1.6	ug/L			09/15/22 15:47	5
<b>cis-1,2-Dichloroethene</b>	<b>420</b>		5.0	2.0	ug/L			09/15/22 15:47	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			09/15/22 15:47	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			09/15/22 15:47	5
Dibromomethane	<1.4		5.0	1.4	ug/L			09/15/22 15:47	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			09/15/22 15:47	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			09/15/22 15:47	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			09/15/22 15:47	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			09/15/22 15:47	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			09/15/22 15:47	5
Methylene Chloride	<8.2		25	8.2	ug/L			09/15/22 15:47	5
<b>Naphthalene</b>	<b>4.3 J B</b>		5.0	1.7	ug/L			09/15/22 15:47	5
<b>n-Butylbenzene</b>	<b>3.3 J B</b>		5.0	1.9	ug/L			09/15/22 15:47	5
<b>N-Propylbenzene</b>	<b>3.2 J B</b>		5.0	2.1	ug/L			09/15/22 15:47	5
<b>p-Isopropyltoluene</b>	<b>3.8 J</b>		5.0	1.8	ug/L			09/15/22 15:47	5

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-221852-31**

**Date Collected: 09/03/22 10:42**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>sec-Butylbenzene</b>	<b>3.3</b>	<b>J</b>	5.0	2.0	ug/L			09/15/22 15:47	5
Styrene	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
<b>tert-Butylbenzene</b>	<b>3.3</b>	<b>J</b>	5.0	2.0	ug/L			09/15/22 15:47	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			09/15/22 15:47	5
Toluene	<0.76		2.5	0.76	ug/L			09/15/22 15:47	5
<b>trans-1,2-Dichloroethene</b>	<b>37</b>		5.0	1.7	ug/L			09/15/22 15:47	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			09/15/22 15:47	5
Trichlorofluoromethane	<2.1	*-	5.0	2.1	ug/L			09/15/22 15:47	5
<b>Vinyl chloride</b>	<b>28</b>		5.0	1.0	ug/L			09/15/22 15:47	5
<b>Xylenes, Total</b>	<b>1.9</b>	<b>J</b>	5.0	1.1	ug/L			09/15/22 15:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 126		09/15/22 15:47	5
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 15:47	5
Dibromofluoromethane	90		75 - 120		09/15/22 15:47	5
Toluene-d8 (Surr)	96		75 - 120		09/15/22 15:47	5

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>2800</b>		25	8.2	ug/L			09/15/22 15:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 126		09/15/22 15:21	50
4-Bromofluorobenzene (Surr)	108		72 - 124		09/15/22 15:21	50
Dibromofluoromethane	90		75 - 120		09/15/22 15:21	50
Toluene-d8 (Surr)	96		75 - 120		09/15/22 15:21	50

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-12**

**Lab Sample ID: 500-221852-32**

**Date Collected: 09/03/22 11:01**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 19:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 19:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 19:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 19:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 19:47	1
<b>1,1-Dichloroethene</b>	<b>3.1</b>		1.0	0.39	ug/L			09/15/22 19:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 19:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 19:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 19:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 19:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 19:47	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 19:47	1
<b>1,2-Dichloroethane</b>	<b>8.3</b>		1.0	0.39	ug/L			09/15/22 19:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 19:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 19:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 19:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 19:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 19:47	1
<b>Benzene</b>	<b>0.27 J</b>		0.50	0.15	ug/L			09/15/22 19:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 19:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 19:47	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 19:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 19:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 19:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 19:47	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 19:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 19:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 19:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 19:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 19:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 19:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 19:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 19:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 19:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 19:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 19:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 19:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:47	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-12**

**Lab Sample ID: 500-221852-32**

**Date Collected: 09/03/22 11:01**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 19:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 19:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 19:47	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 19:47	1
<b>trans-1,2-Dichloroethene</b>	<b>31</b>		1.0	0.35	ug/L			09/15/22 19:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 19:47	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 19:47	1
<b>Vinyl chloride</b>	<b>41</b>		1.0	0.20	ug/L			09/15/22 19:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		09/15/22 19:47	1
4-Bromofluorobenzene (Surr)	103		72 - 124		09/15/22 19:47	1
Dibromofluoromethane	95		75 - 120		09/15/22 19:47	1
Toluene-d8 (Surr)	93		75 - 120		09/15/22 19:47	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>600</b>		10	4.1	ug/L			09/15/22 20:14	10
<b>Trichloroethene</b>	<b>80</b>		5.0	1.6	ug/L			09/15/22 20:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		09/15/22 20:14	10
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 20:14	10
Dibromofluoromethane	98		75 - 120		09/15/22 20:14	10
Toluene-d8 (Surr)	94		75 - 120		09/15/22 20:14	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-8**

**Lab Sample ID: 500-221852-33**

**Date Collected: 09/03/22 11:32**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 20:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 20:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 20:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 20:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 20:40	1
<b>1,1-Dichloroethene</b>	<b>3.5</b>		1.0	0.39	ug/L			09/15/22 20:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 20:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 20:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 20:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 20:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 20:40	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 20:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 20:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 20:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 20:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 20:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 20:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 20:40	1
<b>Benzene</b>	<b>0.16 J</b>		0.50	0.15	ug/L			09/15/22 20:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 20:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 20:40	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 20:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 20:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 20:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 20:40	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 20:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 20:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 20:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 20:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 20:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 20:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 20:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 20:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 20:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 20:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 20:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 20:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 20:40	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-8**

**Lab Sample ID: 500-221852-33**

**Date Collected: 09/03/22 11:32**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 20:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 20:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 20:40	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 20:40	1
<b>trans-1,2-Dichloroethene</b>	<b>29</b>		1.0	0.35	ug/L			09/15/22 20:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 20:40	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 20:40	1
<b>Vinyl chloride</b>	<b>19</b>		1.0	0.20	ug/L			09/15/22 20:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 126		09/15/22 20:40	1
4-Bromofluorobenzene (Surr)	104		72 - 124		09/15/22 20:40	1
Dibromofluoromethane	95		75 - 120		09/15/22 20:40	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 20:40	1

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>230</b>		10	4.1	ug/L			09/15/22 21:07	10
<b>Trichloroethene</b>	<b>660</b>		5.0	1.6	ug/L			09/15/22 21:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126		09/15/22 21:07	10
4-Bromofluorobenzene (Surr)	104		72 - 124		09/15/22 21:07	10
Dibromofluoromethane	95		75 - 120		09/15/22 21:07	10
Toluene-d8 (Surr)	95		75 - 120		09/15/22 21:07	10

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-8**

**Lab Sample ID: 500-221852-34**

**Date Collected: 09/03/22 11:50**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 21:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 21:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 21:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 21:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 21:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 21:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 21:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 21:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 21:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 21:33	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 21:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 21:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 21:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 21:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 21:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 21:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 21:33	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 21:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 21:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 21:33	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 21:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 21:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 21:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 21:33	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 21:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 21:33	1
<b>cis-1,2-Dichloroethene</b>	<b>32</b>		1.0	0.41	ug/L			09/15/22 21:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 21:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 21:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 21:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 21:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 21:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 21:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 21:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 21:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 21:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 21:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-8**

**Lab Sample ID: 500-221852-34**

**Date Collected: 09/03/22 11:50**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 21:33	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 21:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 21:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 21:33	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 21:33	1
<b>trans-1,2-Dichloroethene</b>	<b>1.7</b>		1.0	0.35	ug/L			09/15/22 21:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 21:33	1
<b>Trichloroethene</b>	<b>37</b>		0.50	0.16	ug/L			09/15/22 21:33	1
Trichlorofluoromethane	<0.43	*	1.0	0.43	ug/L			09/15/22 21:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 21:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		09/15/22 21:33	1
4-Bromofluorobenzene (Surr)	103		72 - 124		09/15/22 21:33	1
Dibromofluoromethane	98		75 - 120		09/15/22 21:33	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 21:33	1

# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-221852-35**

**Date Collected: 09/03/22 12:16**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 22:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 22:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 22:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 22:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 22:00	1
<b>1,1-Dichloroethene</b>	<b>0.71</b>	<b>J</b>	1.0	0.39	ug/L			09/15/22 22:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 22:00	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 22:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 22:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 22:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 22:00	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 22:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 22:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 22:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 22:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 22:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 22:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 22:00	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 22:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 22:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 22:00	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 22:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 22:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 22:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 22:00	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 22:00	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 22:00	1
<b>cis-1,2-Dichloroethene</b>	<b>52</b>		1.0	0.41	ug/L			09/15/22 22:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 22:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 22:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 22:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 22:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 22:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 22:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 22:00	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 22:00	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 22:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 22:00	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1

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# Client Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-221852-35**

**Date Collected: 09/03/22 12:16**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 22:00	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 22:00	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 22:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 22:00	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 22:00	1
<b>trans-1,2-Dichloroethene</b>	<b>1.9</b>		1.0	0.35	ug/L			09/15/22 22:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 22:00	1
<b>Trichloroethene</b>	<b>44</b>		0.50	0.16	ug/L			09/15/22 22:00	1
Trichlorofluoromethane	<0.43	*-	1.0	0.43	ug/L			09/15/22 22:00	1
<b>Vinyl chloride</b>	<b>7.6</b>		1.0	0.20	ug/L			09/15/22 22:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		09/15/22 22:00	1
4-Bromofluorobenzene (Surr)	103		72 - 124		09/15/22 22:00	1
Dibromofluoromethane	98		75 - 120		09/15/22 22:00	1
Toluene-d8 (Surr)	94		75 - 120		09/15/22 22:00	1

# Definitions/Glossary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## GC/MS VOA

### Analysis Batch: 674267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-1	Trip Blank	Total/NA	Water	8260B	
500-221852-2	Duplicate #1	Total/NA	Water	8260B	
500-221852-2 - DL	Duplicate #1	Total/NA	Water	8260B	
500-221852-3	Duplicate #2	Total/NA	Water	8260B	
500-221852-3 - DL	Duplicate #2	Total/NA	Water	8260B	
500-221852-4	P-5	Total/NA	Water	8260B	
500-221852-4 - DL	P-5	Total/NA	Water	8260B	
500-221852-5	MW-5	Total/NA	Water	8260B	
500-221852-5 - DL	MW-5	Total/NA	Water	8260B	
500-221852-7	TW-10	Total/NA	Water	8260B	
500-221852-8	P-10	Total/NA	Water	8260B	
500-221852-9	MW-10	Total/NA	Water	8260B	
500-221852-9 - DL	MW-10	Total/NA	Water	8260B	
500-221852-10	MW-21	Total/NA	Water	8260B	
500-221852-11	MW-15	Total/NA	Water	8260B	
MB 500-674267/7	Method Blank	Total/NA	Water	8260B	
LCS 500-674267/4	Lab Control Sample	Total/NA	Water	8260B	
500-221852-11 MS	MW-15	Total/NA	Water	8260B	
500-221852-11 MSD	MW-15	Total/NA	Water	8260B	

### Analysis Batch: 674454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-6	TW-12	Total/NA	Water	8260B	
500-221852-12	MW-19	Total/NA	Water	8260B	
500-221852-12 - DL	MW-19	Total/NA	Water	8260B	
500-221852-13	MW-23	Total/NA	Water	8260B	
500-221852-13 - DL	MW-23	Total/NA	Water	8260B	
500-221852-14	MW-22	Total/NA	Water	8260B	
500-221852-15	MW-20	Total/NA	Water	8260B	
MB 500-674454/33	Method Blank	Total/NA	Water	8260B	
LCS 500-674454/5	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 674501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-16	MW-1	Total/NA	Water	8260B	
500-221852-17	MW-9	Total/NA	Water	8260B	
500-221852-18	MW-17	Total/NA	Water	8260B	
500-221852-19	Duplicate #3	Total/NA	Water	8260B	
500-221852-19 - DL	Duplicate #3	Total/NA	Water	8260B	
500-221852-20	Duplicate #4	Total/NA	Water	8260B	
MB 500-674501/6	Method Blank	Total/NA	Water	8260B	
LCS 500-674501/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 674724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-21	TW-6	Total/NA	Water	8260B	
500-221852-22	TW-4	Total/NA	Water	8260B	
MB 500-674724/6	Method Blank	Total/NA	Water	8260B	
LCS 500-674724/4	Lab Control Sample	Total/NA	Water	8260B	

# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## GC/MS VOA

### Analysis Batch: 674797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-23	P-11	Total/NA	Water	8260B	
500-221852-24	MW-11	Total/NA	Water	8260B	
500-221852-25	MW-7	Total/NA	Water	8260B	
500-221852-26	P-7	Total/NA	Water	8260B	
500-221852-27	MW-16	Total/NA	Water	8260B	
500-221852-28	P-16	Total/NA	Water	8260B	
500-221852-29	P-13	Total/NA	Water	8260B	
500-221852-30	MW-13	Total/NA	Water	8260B	
500-221852-31 - DL	MW-12	Total/NA	Water	8260B	
500-221852-31	MW-12	Total/NA	Water	8260B	
500-221852-32	P-12	Total/NA	Water	8260B	
500-221852-32 - DL	P-12	Total/NA	Water	8260B	
500-221852-33	P-8	Total/NA	Water	8260B	
500-221852-33 - DL	P-8	Total/NA	Water	8260B	
500-221852-34	MW-8	Total/NA	Water	8260B	
500-221852-35	MW-14	Total/NA	Water	8260B	
MB 500-674797/6	Method Blank	Total/NA	Water	8260B	
LCS 500-674797/7	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 674923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-21 - DL	TW-6	Total/NA	Water	8260B	
500-221852-26 - DL	P-7	Total/NA	Water	8260B	
500-221852-28 - DL	P-16	Total/NA	Water	8260B	
MB 500-674923/7	Method Blank	Total/NA	Water	8260B	
LCS 500-674923/4	Lab Control Sample	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 641277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-5	MW-5	Total/NA	Water	RSK-175	
500-221852-5 - DL	MW-5	Total/NA	Water	RSK-175	
500-221852-8	P-10	Total/NA	Water	RSK-175	
500-221852-9	MW-10	Total/NA	Water	RSK-175	
500-221852-9 - DL	MW-10	Total/NA	Water	RSK-175	
500-221852-10	MW-21	Total/NA	Water	RSK-175	
500-221852-10 - DL	MW-21	Total/NA	Water	RSK-175	
500-221852-13	MW-23	Total/NA	Water	RSK-175	
500-221852-13 - DL	MW-23	Total/NA	Water	RSK-175	
MB 480-641277/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-641277/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-641277/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

## Metals

### Prep Batch: 673813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-5	MW-5	Dissolved	Water	3005A	
500-221852-8	P-10	Dissolved	Water	3005A	
500-221852-9	MW-10	Dissolved	Water	3005A	
500-221852-10	MW-21	Dissolved	Water	3005A	

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# QC Association Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Metals (Continued)

### Prep Batch: 673813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-13	MW-23	Dissolved	Water	3005A	
MB 500-673813/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-673813/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-221852-5 MS	MW-5	Dissolved	Water	3005A	
500-221852-5 MSD	MW-5	Dissolved	Water	3005A	
500-221852-5 DU	MW-5	Dissolved	Water	3005A	

### Analysis Batch: 674091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-5	MW-5	Dissolved	Water	6020A	673813
500-221852-8	P-10	Dissolved	Water	6020A	673813
500-221852-9	MW-10	Dissolved	Water	6020A	673813
500-221852-10	MW-21	Dissolved	Water	6020A	673813
500-221852-13	MW-23	Dissolved	Water	6020A	673813
MB 500-673813/1-A	Method Blank	Total Recoverable	Water	6020A	673813
LCS 500-673813/2-A	Lab Control Sample	Total Recoverable	Water	6020A	673813
500-221852-5 MS	MW-5	Dissolved	Water	6020A	673813
500-221852-5 MSD	MW-5	Dissolved	Water	6020A	673813
500-221852-5 DU	MW-5	Dissolved	Water	6020A	673813

## General Chemistry

### Analysis Batch: 674159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-5	MW-5	Total/NA	Water	300.0	
500-221852-8	P-10	Total/NA	Water	300.0	
500-221852-9	MW-10	Total/NA	Water	300.0	
500-221852-10	MW-21	Total/NA	Water	300.0	
500-221852-13	MW-23	Total/NA	Water	300.0	
MB 500-674159/3	Method Blank	Total/NA	Water	300.0	
LCS 500-674159/4	Lab Control Sample	Total/NA	Water	300.0	
500-221852-9 MS	MW-10	Total/NA	Water	300.0	
500-221852-9 MSD	MW-10	Total/NA	Water	300.0	

### Analysis Batch: 674498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-5	MW-5	Total/NA	Water	9060A	
500-221852-9	MW-10	Total/NA	Water	9060A	
500-221852-10	MW-21	Total/NA	Water	9060A	
500-221852-13	MW-23	Total/NA	Water	9060A	
MB 500-674498/4	Method Blank	Total/NA	Water	9060A	
LCS 500-674498/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 500-674498/6	Lab Control Sample Dup	Total/NA	Water	9060A	

### Analysis Batch: 674749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221852-8	P-10	Total/NA	Water	9060A	
MB 500-674749/4	Method Blank	Total/NA	Water	9060A	
LCS 500-674749/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 500-674749/6	Lab Control Sample Dup	Total/NA	Water	9060A	

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# Surrogate Summary

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-221852-1	Trip Blank	96	83	104	95
500-221852-2	Duplicate #1	89	83	101	96
500-221852-2 - DL	Duplicate #1	97	84	108	96
500-221852-3	Duplicate #2	92	84	104	99
500-221852-3 - DL	Duplicate #2	90	81	102	96
500-221852-4	P-5	88	81	100	98
500-221852-4 - DL	P-5	90	79	102	94
500-221852-5	MW-5	89	82	103	95
500-221852-5 - DL	MW-5	91	83	104	95
500-221852-6	TW-12	110	105	110	94
500-221852-7	TW-10	92	78	105	95
500-221852-8	P-10	88	79	101	96
500-221852-9	MW-10	91	79	102	94
500-221852-9 - DL	MW-10	92	81	104	95
500-221852-10	MW-21	96	79	105	94
500-221852-11	MW-15	93	79	106	93
500-221852-11 MS	MW-15	93	83	102	95
500-221852-11 MSD	MW-15	91	83	103	96
500-221852-12	MW-19	108	112	106	100
500-221852-12 - DL	MW-19	108	111	105	97
500-221852-13	MW-23	109	110	107	96
500-221852-13 - DL	MW-23	109	111	106	97
500-221852-14	MW-22	110	108	107	96
500-221852-15	MW-20	109	110	106	97
500-221852-16	MW-1	105	107	93	92
500-221852-17	MW-9	104	107	93	91
500-221852-18	MW-17	107	105	93	91
500-221852-19	Duplicate #3	105	105	92	91
500-221852-19 - DL	Duplicate #3	104	108	93	91
500-221852-20	Duplicate #4	106	106	93	91
500-221852-21	TW-6	107	104	93	91
500-221852-21 - DL	TW-6	102	85	98	101
500-221852-22	TW-4	105	104	93	92
500-221852-23	P-11	89	106	92	94
500-221852-24	MW-11	88	106	93	94
500-221852-25	MW-7	88	106	94	94
500-221852-26	P-7	89	106	95	94
500-221852-26 - DL	P-7	102	85	97	100
500-221852-27	MW-16	88	119	91	101
500-221852-28	P-16	91	105	95	93
500-221852-28 - DL	P-16	101	82	95	102
500-221852-29	P-13	90	106	95	94
500-221852-30	MW-13	89	104	96	94
500-221852-31	MW-12	87	106	90	96
500-221852-31 - DL	MW-12	86	108	90	96
500-221852-32	P-12	90	103	95	93
500-221852-32 - DL	P-12	91	106	98	94
500-221852-33	P-8	91	104	95	94
500-221852-33 - DL	P-8	92	104	95	95

# Surrogate Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(75-126)	(72-124)	(75-120)	(75-120)
500-221852-34	MW-8	93	103	98	94
500-221852-35	MW-14	93	103	98	94
LCS 500-674267/4	Lab Control Sample	85	85	97	99
LCS 500-674454/5	Lab Control Sample	99	108	99	98
LCS 500-674501/4	Lab Control Sample	103	105	95	91
LCS 500-674724/4	Lab Control Sample	101	106	93	91
LCS 500-674797/7	Lab Control Sample	82	109	85	96
LCS 500-674923/4	Lab Control Sample	100	91	97	102
MB 500-674267/7	Method Blank	87	80	100	96
MB 500-674454/33	Method Blank	96	109	100	100
MB 500-674501/6	Method Blank	103	103	89	92
MB 500-674724/6	Method Blank	105	106	92	92
MB 500-674797/6	Method Blank	86	108	89	95
MB 500-674923/7	Method Blank	102	85	96	101

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-674267/7**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/13/22 10:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/13/22 10:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/13/22 10:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/13/22 10:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/13/22 10:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/13/22 10:40	1
1,2,3-Trichlorobenzene	0.638	J	1.0	0.46	ug/L			09/13/22 10:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/13/22 10:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/13/22 10:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/13/22 10:40	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/13/22 10:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/13/22 10:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/13/22 10:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/13/22 10:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/13/22 10:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/13/22 10:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/13/22 10:40	1
Benzene	<0.15		0.50	0.15	ug/L			09/13/22 10:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/13/22 10:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/13/22 10:40	1
Bromoform	<0.48		1.0	0.48	ug/L			09/13/22 10:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/13/22 10:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/13/22 10:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/13/22 10:40	1
Chloroform	<0.37		2.0	0.37	ug/L			09/13/22 10:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/13/22 10:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/13/22 10:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/13/22 10:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/13/22 10:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/13/22 10:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/13/22 10:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/13/22 10:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/13/22 10:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/13/22 10:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/13/22 10:40	1
Naphthalene	0.452	J	1.0	0.34	ug/L			09/13/22 10:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/13/22 10:40	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674267/7**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 10:40	1
Styrene	<0.39		1.0	0.39	ug/L			09/13/22 10:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/13/22 10:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/13/22 10:40	1
Toluene	<0.15		0.50	0.15	ug/L			09/13/22 10:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/13/22 10:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/13/22 10:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/13/22 10:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/13/22 10:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/13/22 10:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/13/22 10:40	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	87		75 - 126		09/13/22 10:40	1
4-Bromofluorobenzene (Surr)	80		72 - 124		09/13/22 10:40	1
Dibromofluoromethane	100		75 - 120		09/13/22 10:40	1
Toluene-d8 (Surr)	96		75 - 120		09/13/22 10:40	1

**Lab Sample ID: LCS 500-674267/4**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	43.8		ug/L		88	70 - 125
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	70 - 125
1,1,1,2-Tetrachloroethane	50.0	40.5		ug/L		81	62 - 140
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	42.6		ug/L		85	70 - 125
1,1-Dichloroethene	50.0	48.4		ug/L		97	67 - 122
1,1-Dichloropropene	50.0	45.3		ug/L		91	70 - 121
1,2,3-Trichlorobenzene	50.0	33.8		ug/L		68	51 - 145
1,2,3-Trichloropropane	50.0	38.9		ug/L		78	50 - 133
1,2,4-Trichlorobenzene	50.0	38.5		ug/L		77	57 - 137
1,2,4-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	31.1		ug/L		62	56 - 123
1,2-Dibromoethane (EDB)	50.0	42.1		ug/L		84	70 - 125
1,2-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 125
1,2-Dichloroethane	50.0	40.2		ug/L		80	68 - 127
1,2-Dichloropropane	50.0	44.0		ug/L		88	67 - 130
1,3,5-Trimethylbenzene	50.0	44.5		ug/L		89	70 - 123
1,3-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 125
1,3-Dichloropropane	50.0	43.5		ug/L		87	62 - 136
1,4-Dichlorobenzene	50.0	44.4		ug/L		89	70 - 120
2,2-Dichloropropane	50.0	40.9		ug/L		82	58 - 139
2-Chlorotoluene	50.0	44.1		ug/L		88	70 - 125
4-Chlorotoluene	50.0	42.5		ug/L		85	68 - 124
Benzene	50.0	48.1		ug/L		96	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674267/4**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	46.7		ug/L		93	70 - 122
Bromochloromethane	50.0	48.6		ug/L		97	65 - 122
Bromodichloromethane	50.0	46.5		ug/L		93	69 - 120
Bromoform	50.0	47.0		ug/L		94	56 - 132
Bromomethane	50.0	52.9		ug/L		106	40 - 152
Carbon tetrachloride	50.0	47.3		ug/L		95	59 - 133
Chlorobenzene	50.0	46.8		ug/L		94	70 - 120
Chloroethane	50.0	56.0		ug/L		112	48 - 136
Chloroform	50.0	43.6		ug/L		87	70 - 120
Chloromethane	50.0	38.9		ug/L		78	56 - 152
cis-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	41.0		ug/L		82	64 - 127
Dibromochloromethane	50.0	47.5		ug/L		95	68 - 125
Dibromomethane	50.0	46.1		ug/L		92	70 - 120
Dichlorodifluoromethane	50.0	44.5		ug/L		89	40 - 159
Ethylbenzene	50.0	43.3		ug/L		87	70 - 123
Hexachlorobutadiene	50.0	45.9		ug/L		92	51 - 150
Isopropylbenzene	50.0	45.6		ug/L		91	70 - 126
Methyl tert-butyl ether	50.0	38.2		ug/L		76	55 - 123
Methylene Chloride	50.0	46.2		ug/L		92	69 - 125
Naphthalene	50.0	30.8		ug/L		62	53 - 144
n-Butylbenzene	50.0	43.8		ug/L		88	68 - 125
N-Propylbenzene	50.0	45.4		ug/L		91	69 - 127
p-Isopropyltoluene	50.0	44.4		ug/L		89	70 - 125
sec-Butylbenzene	50.0	47.6		ug/L		95	70 - 123
Styrene	50.0	46.3		ug/L		93	70 - 120
tert-Butylbenzene	50.0	45.1		ug/L		90	70 - 121
Tetrachloroethene	50.0	53.8		ug/L		108	70 - 128
Toluene	50.0	45.8		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	45.9		ug/L		92	70 - 125
trans-1,3-Dichloropropene	50.0	39.2		ug/L		78	62 - 128
Trichloroethene	50.0	50.7		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	46.5		ug/L		93	55 - 128
Vinyl chloride	50.0	42.5		ug/L		85	64 - 126
Xylenes, Total	100	89.0		ug/L		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		75 - 126
4-Bromofluorobenzene (Surr)	85		72 - 124
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	99		75 - 120

**Lab Sample ID: 500-221852-11 MS**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: MW-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	44.9		ug/L		90	70 - 125

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-221852-11 MS**

**Matrix: Water**

**Analysis Batch: 674267**

**Client Sample ID: MW-15**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.38		50.0	42.6		ug/L		85	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.5		ug/L		87	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	48.1		ug/L		96	71 - 130
1,1-Dichloroethane	<0.41		50.0	42.4		ug/L		85	70 - 125
1,1-Dichloroethene	<0.39		50.0	43.4		ug/L		87	67 - 122
1,1-Dichloropropene	<0.30		50.0	42.5		ug/L		85	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	35.0		ug/L		70	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	41.2		ug/L		82	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	37.0		ug/L		74	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	41.8		ug/L		84	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	36.5		ug/L		73	56 - 123
1,2-Dibromoethane (EDB)	<0.39		50.0	44.5		ug/L		89	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	45.0		ug/L		90	70 - 125
1,2-Dichloroethane	<0.39		50.0	42.4		ug/L		85	68 - 127
1,2-Dichloropropane	<0.43		50.0	44.4		ug/L		89	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	41.2		ug/L		82	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	44.2		ug/L		88	70 - 125
1,3-Dichloropropane	<0.36		50.0	44.9		ug/L		90	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	43.4		ug/L		87	70 - 120
2,2-Dichloropropane	<0.44		50.0	37.8		ug/L		76	58 - 139
2-Chlorotoluene	<0.31		50.0	41.7		ug/L		83	70 - 125
4-Chlorotoluene	<0.35		50.0	39.7		ug/L		79	68 - 124
Benzene	<0.15		50.0	47.1		ug/L		94	70 - 120
Bromobenzene	<0.36		50.0	46.2		ug/L		92	70 - 122
Bromochloromethane	<0.43		50.0	54.2		ug/L		108	65 - 122
Bromodichloromethane	<0.37		50.0	47.5		ug/L		95	69 - 120
Bromoform	<0.48		50.0	52.0		ug/L		104	56 - 132
Bromomethane	<0.80		50.0	59.4		ug/L		119	40 - 152
Carbon tetrachloride	<0.38		50.0	45.1		ug/L		90	59 - 133
Chlorobenzene	<0.39		50.0	45.6		ug/L		91	70 - 120
Chloroethane	<0.51		50.0	56.8		ug/L		114	48 - 136
Chloroform	<0.37		50.0	44.6		ug/L		89	70 - 120
Chloromethane	<0.32		50.0	39.5		ug/L		79	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	46.4		ug/L		93	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	39.5		ug/L		79	64 - 127
Dibromochloromethane	<0.49		50.0	49.7		ug/L		99	68 - 125
Dibromomethane	<0.27		50.0	48.5		ug/L		97	70 - 120
Dichlorodifluoromethane	<0.67		50.0	41.3		ug/L		83	40 - 159
Ethylbenzene	<0.18		50.0	40.6		ug/L		81	70 - 123
Hexachlorobutadiene	<0.45		50.0	44.7		ug/L		89	51 - 150
Isopropylbenzene	<0.39		50.0	41.6		ug/L		83	70 - 126
Methyl tert-butyl ether	<0.39		50.0	40.6		ug/L		81	55 - 123
Methylene Chloride	2.4	J	50.0	48.4		ug/L		92	69 - 125
Naphthalene	<0.34		50.0	32.9		ug/L		66	53 - 144
n-Butylbenzene	<0.39		50.0	38.9		ug/L		78	68 - 125
N-Propylbenzene	<0.41		50.0	41.1		ug/L		82	69 - 127
p-Isopropyltoluene	<0.36		50.0	40.6		ug/L		81	70 - 125
sec-Butylbenzene	<0.40		50.0	43.6		ug/L		87	70 - 123
Styrene	<0.39		50.0	44.4		ug/L		89	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-221852-11 MS**

**Matrix: Water**

**Analysis Batch: 674267**

**Client Sample ID: MW-15**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	<0.40		50.0	42.0		ug/L		84	70 - 121
Tetrachloroethene	<0.37		50.0	48.8		ug/L		98	70 - 128
Toluene	<0.15		50.0	42.7		ug/L		85	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	44.7		ug/L		89	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	38.7		ug/L		77	62 - 128
Trichloroethene	1.3		50.0	50.4		ug/L		98	70 - 125
Trichlorofluoromethane	<0.43		50.0	44.8		ug/L		90	55 - 128
Vinyl chloride	<0.20		50.0	40.0		ug/L		80	64 - 126
Xylenes, Total	<0.22		100	84.7		ug/L		85	70 - 125
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		75 - 126						
4-Bromofluorobenzene (Surr)	83		72 - 124						
Dibromofluoromethane	102		75 - 120						
Toluene-d8 (Surr)	95		75 - 120						

**Lab Sample ID: 500-221852-11 MSD**

**Matrix: Water**

**Analysis Batch: 674267**

**Client Sample ID: MW-15**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.1		ug/L		94	70 - 125	5	20
1,1,1-Trichloroethane	<0.38		50.0	46.4		ug/L		93	70 - 125	9	20
1,1,1,2-Tetrachloroethane	<0.40		50.0	46.7		ug/L		93	62 - 140	7	20
1,1,2-Trichloroethane	<0.35		50.0	51.2		ug/L		102	71 - 130	6	20
1,1-Dichloroethane	<0.41		50.0	45.0		ug/L		90	70 - 125	6	20
1,1-Dichloroethene	<0.39		50.0	47.1		ug/L		94	67 - 122	8	20
1,1-Dichloropropene	<0.30		50.0	45.6		ug/L		91	70 - 121	7	20
1,2,3-Trichlorobenzene	<0.46		50.0	39.9		ug/L		80	51 - 145	13	20
1,2,3-Trichloropropane	<0.41		50.0	43.0		ug/L		86	50 - 133	4	20
1,2,4-Trichlorobenzene	<0.34		50.0	41.1		ug/L		82	57 - 137	10	20
1,2,4-Trimethylbenzene	<0.36		50.0	45.0		ug/L		90	70 - 123	7	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	40.3		ug/L		81	56 - 123	10	20
1,2-Dibromoethane (EDB)	<0.39		50.0	46.4		ug/L		93	70 - 125	4	20
1,2-Dichlorobenzene	<0.33		50.0	49.4		ug/L		99	70 - 125	9	20
1,2-Dichloroethane	<0.39		50.0	43.8		ug/L		88	68 - 127	3	20
1,2-Dichloropropane	<0.43		50.0	47.0		ug/L		94	67 - 130	6	20
1,3,5-Trimethylbenzene	<0.25		50.0	44.2		ug/L		88	70 - 123	7	20
1,3-Dichlorobenzene	<0.40		50.0	48.0		ug/L		96	70 - 125	8	20
1,3-Dichloropropane	<0.36		50.0	47.3		ug/L		95	62 - 136	5	20
1,4-Dichlorobenzene	<0.36		50.0	47.5		ug/L		95	70 - 120	9	20
2,2-Dichloropropane	<0.44		50.0	39.8		ug/L		80	58 - 139	5	20
2-Chlorotoluene	<0.31		50.0	44.1		ug/L		88	70 - 125	6	20
4-Chlorotoluene	<0.35		50.0	43.5		ug/L		87	68 - 124	9	20
Benzene	<0.15		50.0	50.2		ug/L		100	70 - 120	6	20
Bromobenzene	<0.36		50.0	49.4		ug/L		99	70 - 122	7	20
Bromochloromethane	<0.43		50.0	54.5		ug/L		109	65 - 122	1	20
Bromodichloromethane	<0.37		50.0	50.7		ug/L		101	69 - 120	7	20

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-221852-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 674267**

**Client Sample ID: MW-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	54.5		ug/L		109	56 - 132	5	20
Bromomethane	<0.80		50.0	63.0		ug/L		126	40 - 152	6	20
Carbon tetrachloride	<0.38		50.0	48.5		ug/L		97	59 - 133	7	20
Chlorobenzene	<0.39		50.0	47.8		ug/L		96	70 - 120	5	20
Chloroethane	<0.51		50.0	58.8		ug/L		118	48 - 136	3	20
Chloroform	<0.37		50.0	47.5		ug/L		95	70 - 120	6	20
Chloromethane	<0.32		50.0	41.7		ug/L		83	56 - 152	5	20
cis-1,2-Dichloroethene	<0.41		50.0	48.1		ug/L		96	70 - 125	4	20
cis-1,3-Dichloropropene	<0.42		50.0	41.6		ug/L		83	64 - 127	5	20
Dibromochloromethane	<0.49		50.0	52.6		ug/L		105	68 - 125	6	20
Dibromomethane	<0.27		50.0	51.5		ug/L		103	70 - 120	6	20
Dichlorodifluoromethane	<0.67		50.0	44.0		ug/L		88	40 - 159	6	20
Ethylbenzene	<0.18		50.0	42.4		ug/L		85	70 - 123	4	20
Hexachlorobutadiene	<0.45		50.0	50.8		ug/L		102	51 - 150	13	20
Isopropylbenzene	<0.39		50.0	45.0		ug/L		90	70 - 126	8	20
Methyl tert-butyl ether	<0.39		50.0	43.1		ug/L		86	55 - 123	6	20
Methylene Chloride	2.4	J	50.0	51.1		ug/L		97	69 - 125	5	20
Naphthalene	<0.34		50.0	38.9		ug/L		78	53 - 144	17	20
n-Butylbenzene	<0.39		50.0	42.5		ug/L		85	68 - 125	9	20
N-Propylbenzene	<0.41		50.0	43.9		ug/L		88	69 - 127	7	20
p-Isopropyltoluene	<0.36		50.0	43.8		ug/L		88	70 - 125	8	20
sec-Butylbenzene	<0.40		50.0	47.3		ug/L		95	70 - 123	8	20
Styrene	<0.39		50.0	47.4		ug/L		95	70 - 120	7	20
tert-Butylbenzene	<0.40		50.0	45.1		ug/L		90	70 - 121	7	20
Tetrachloroethene	<0.37		50.0	51.3		ug/L		103	70 - 128	5	20
Toluene	<0.15		50.0	45.7		ug/L		91	70 - 125	7	20
trans-1,2-Dichloroethene	<0.35		50.0	47.3		ug/L		95	70 - 125	6	20
trans-1,3-Dichloropropene	<0.36		50.0	40.7		ug/L		81	62 - 128	5	20
Trichloroethene	1.3		50.0	52.3		ug/L		102	70 - 125	4	20
Trichlorofluoromethane	<0.43		50.0	47.3		ug/L		95	55 - 128	6	20
Vinyl chloride	<0.20		50.0	41.1		ug/L		82	64 - 126	3	20
Xylenes, Total	<0.22		100	89.0		ug/L		89	70 - 125	5	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 126
4-Bromofluorobenzene (Surr)	83		72 - 124
Dibromofluoromethane	103		75 - 120
Toluene-d8 (Surr)	96		75 - 120

**Lab Sample ID: MB 500-674454/33**  
**Matrix: Water**  
**Analysis Batch: 674454**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 11:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 11:59	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 11:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 11:59	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674454/33**  
**Matrix: Water**  
**Analysis Batch: 674454**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 11:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 11:59	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 11:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 11:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 11:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 11:59	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 11:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 11:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 11:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 11:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 11:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 11:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 11:59	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 11:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 11:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 11:59	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 11:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 11:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 11:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 11:59	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 11:59	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 11:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/14/22 11:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 11:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 11:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 11:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 11:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 11:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 11:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 11:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/14/22 11:59	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 11:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 11:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 11:59	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 11:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 11:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 11:59	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674454/33**  
**Matrix: Water**  
**Analysis Batch: 674454**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 11:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 11:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 11:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/14/22 11:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 11:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 11:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 11:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		09/14/22 11:59	1
4-Bromofluorobenzene (Surr)	109		72 - 124		09/14/22 11:59	1
Dibromofluoromethane	100		75 - 120		09/14/22 11:59	1
Toluene-d8 (Surr)	100		75 - 120		09/14/22 11:59	1

**Lab Sample ID: LCS 500-674454/5**  
**Matrix: Water**  
**Analysis Batch: 674454**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	62 - 140
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	71 - 130
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 125
1,1-Dichloroethene	50.0	44.1		ug/L		88	67 - 122
1,1-Dichloropropene	50.0	50.1		ug/L		100	70 - 121
1,2,3-Trichlorobenzene	50.0	34.3		ug/L		69	51 - 145
1,2,3-Trichloropropane	50.0	56.6		ug/L		113	50 - 133
1,2,4-Trichlorobenzene	50.0	39.6		ug/L		79	57 - 137
1,2,4-Trimethylbenzene	50.0	49.0		ug/L		98	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/L		76	56 - 123
1,2-Dibromoethane (EDB)	50.0	51.9		ug/L		104	70 - 125
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	50.5		ug/L		101	68 - 127
1,2-Dichloropropane	50.0	52.7		ug/L		105	67 - 130
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	70 - 123
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 125
1,3-Dichloropropane	50.0	50.6		ug/L		101	62 - 136
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 120
2,2-Dichloropropane	50.0	44.2		ug/L		88	58 - 139
2-Chlorotoluene	50.0	49.9		ug/L		100	70 - 125
4-Chlorotoluene	50.0	48.8		ug/L		98	68 - 124
Benzene	50.0	49.0		ug/L		98	70 - 120
Bromobenzene	50.0	57.8		ug/L		116	70 - 122
Bromochloromethane	50.0	53.1		ug/L		106	65 - 122
Bromodichloromethane	50.0	51.4		ug/L		103	69 - 120
Bromoform	50.0	56.4		ug/L		113	56 - 132
Bromomethane	50.0	35.9		ug/L		72	40 - 152

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674454/5**  
**Matrix: Water**  
**Analysis Batch: 674454**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	50.0	51.2		ug/L		102	59 - 133
Chlorobenzene	50.0	49.9		ug/L		100	70 - 120
Chloroethane	50.0	28.4		ug/L		57	48 - 136
Chloroform	50.0	46.1		ug/L		92	70 - 120
Chloromethane	50.0	55.4		ug/L		111	56 - 152
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	70 - 125
cis-1,3-Dichloropropene	50.0	49.2		ug/L		98	64 - 127
Dibromochloromethane	50.0	53.3		ug/L		107	68 - 125
Dibromomethane	50.0	50.6		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	54.1		ug/L		108	40 - 159
Ethylbenzene	50.0	49.8		ug/L		100	70 - 123
Hexachlorobutadiene	50.0	44.5		ug/L		89	51 - 150
Isopropylbenzene	50.0	51.5		ug/L		103	70 - 126
Methyl tert-butyl ether	50.0	43.6		ug/L		87	55 - 123
Methylene Chloride	50.0	45.4		ug/L		91	69 - 125
Naphthalene	50.0	37.1		ug/L		74	53 - 144
n-Butylbenzene	50.0	42.8		ug/L		86	68 - 125
N-Propylbenzene	50.0	50.9		ug/L		102	69 - 127
p-Isopropyltoluene	50.0	48.1		ug/L		96	70 - 125
sec-Butylbenzene	50.0	46.5		ug/L		93	70 - 123
Styrene	50.0	51.6		ug/L		103	70 - 120
tert-Butylbenzene	50.0	50.2		ug/L		100	70 - 121
Tetrachloroethene	50.0	58.2		ug/L		116	70 - 128
Toluene	50.0	48.6		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	45.1		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	62 - 128
Trichloroethene	50.0	54.4		ug/L		109	70 - 125
Trichlorofluoromethane	50.0	42.2		ug/L		84	55 - 128
Vinyl chloride	50.0	52.8		ug/L		106	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
4-Bromofluorobenzene (Surr)	108		72 - 124
Dibromofluoromethane	99		75 - 120
Toluene-d8 (Surr)	98		75 - 120

**Lab Sample ID: MB 500-674501/6**  
**Matrix: Water**  
**Analysis Batch: 674501**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/14/22 13:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/14/22 13:35	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/14/22 13:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/14/22 13:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/14/22 13:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674501/6**  
**Matrix: Water**  
**Analysis Batch: 674501**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/14/22 13:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/14/22 13:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/14/22 13:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/14/22 13:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/14/22 13:35	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/14/22 13:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/14/22 13:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/14/22 13:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/14/22 13:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/14/22 13:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/14/22 13:35	1
Benzene	<0.15		0.50	0.15	ug/L			09/14/22 13:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/14/22 13:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/14/22 13:35	1
Bromoform	<0.48		1.0	0.48	ug/L			09/14/22 13:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/14/22 13:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/14/22 13:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/14/22 13:35	1
Chloroform	<0.37		2.0	0.37	ug/L			09/14/22 13:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/14/22 13:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/14/22 13:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/14/22 13:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/14/22 13:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/14/22 13:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/14/22 13:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/14/22 13:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/14/22 13:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/14/22 13:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
Methylene Chloride	3.83	J	5.0	1.6	ug/L			09/14/22 13:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/14/22 13:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/14/22 13:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:35	1
Styrene	<0.39		1.0	0.39	ug/L			09/14/22 13:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/14/22 13:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/14/22 13:35	1
Toluene	<0.15		0.50	0.15	ug/L			09/14/22 13:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/14/22 13:35	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674501/6**  
**Matrix: Water**  
**Analysis Batch: 674501**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/14/22 13:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/14/22 13:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/14/22 13:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/14/22 13:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/14/22 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		09/14/22 13:35	1
4-Bromofluorobenzene (Surr)	103		72 - 124		09/14/22 13:35	1
Dibromofluoromethane	89		75 - 120		09/14/22 13:35	1
Toluene-d8 (Surr)	92		75 - 120		09/14/22 13:35	1

**Lab Sample ID: LCS 500-674501/4**  
**Matrix: Water**  
**Analysis Batch: 674501**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	39.7		ug/L		79	70 - 125
1,1,1-Trichloroethane	50.0	45.0		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.5		ug/L		87	62 - 140
1,1,2-Trichloroethane	50.0	43.5		ug/L		87	71 - 130
1,1-Dichloroethane	50.0	45.0		ug/L		90	70 - 125
1,1-Dichloroethene	50.0	41.9		ug/L		84	67 - 122
1,1-Dichloropropene	50.0	45.6		ug/L		91	70 - 121
1,2,3-Trichlorobenzene	50.0	43.2		ug/L		86	51 - 145
1,2,3-Trichloropropane	50.0	43.1		ug/L		86	50 - 133
1,2,4-Trichlorobenzene	50.0	46.1		ug/L		92	57 - 137
1,2,4-Trimethylbenzene	50.0	44.2		ug/L		88	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	34.6		ug/L		69	56 - 123
1,2-Dibromoethane (EDB)	50.0	40.8		ug/L		82	70 - 125
1,2-Dichlorobenzene	50.0	41.3		ug/L		83	70 - 125
1,2-Dichloroethane	50.0	47.7		ug/L		95	68 - 127
1,2-Dichloropropane	50.0	47.0		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
1,3-Dichlorobenzene	50.0	42.9		ug/L		86	70 - 125
1,3-Dichloropropane	50.0	42.2		ug/L		84	62 - 136
1,4-Dichlorobenzene	50.0	42.0		ug/L		84	70 - 120
2,2-Dichloropropane	50.0	45.3		ug/L		91	58 - 139
2-Chlorotoluene	50.0	44.4		ug/L		89	70 - 125
4-Chlorotoluene	50.0	45.4		ug/L		91	68 - 124
Benzene	50.0	42.5		ug/L		85	70 - 120
Bromobenzene	50.0	44.2		ug/L		88	70 - 122
Bromochloromethane	50.0	41.7		ug/L		83	65 - 122
Bromodichloromethane	50.0	42.3		ug/L		85	69 - 120
Bromoform	50.0	36.5		ug/L		73	56 - 132
Bromomethane	50.0	44.8		ug/L		90	40 - 152
Carbon tetrachloride	50.0	45.8		ug/L		92	59 - 133
Chlorobenzene	50.0	42.9		ug/L		86	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674501/4**  
**Matrix: Water**  
**Analysis Batch: 674501**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	45.7		ug/L		91	48 - 136
Chloroform	50.0	45.4		ug/L		91	70 - 120
Chloromethane	50.0	43.0		ug/L		86	56 - 152
cis-1,2-Dichloroethene	50.0	42.2		ug/L		84	70 - 125
cis-1,3-Dichloropropene	50.0	41.7		ug/L		83	64 - 127
Dibromochloromethane	50.0	39.0		ug/L		78	68 - 125
Dibromomethane	50.0	41.8		ug/L		84	70 - 120
Dichlorodifluoromethane	50.0	46.9		ug/L		94	40 - 159
Ethylbenzene	50.0	41.3		ug/L		83	70 - 123
Hexachlorobutadiene	50.0	43.8		ug/L		88	51 - 150
Isopropylbenzene	50.0	45.1		ug/L		90	70 - 126
Methyl tert-butyl ether	50.0	42.3		ug/L		85	55 - 123
Methylene Chloride	50.0	43.0		ug/L		86	69 - 125
Naphthalene	50.0	41.0		ug/L		82	53 - 144
n-Butylbenzene	50.0	42.6		ug/L		85	68 - 125
N-Propylbenzene	50.0	44.6		ug/L		89	69 - 127
p-Isopropyltoluene	50.0	44.9		ug/L		90	70 - 125
sec-Butylbenzene	50.0	43.6		ug/L		87	70 - 123
Styrene	50.0	41.7		ug/L		83	70 - 120
tert-Butylbenzene	50.0	45.5		ug/L		91	70 - 121
Tetrachloroethene	50.0	42.9		ug/L		86	70 - 128
Toluene	50.0	43.5		ug/L		87	70 - 125
trans-1,2-Dichloroethene	50.0	42.5		ug/L		85	70 - 125
trans-1,3-Dichloropropene	50.0	41.6		ug/L		83	62 - 128
Trichloroethene	50.0	45.5		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	47.4		ug/L		95	55 - 128
Vinyl chloride	50.0	43.0		ug/L		86	64 - 126
Xylenes, Total	100	83.1		ug/L		83	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 126
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane	95		75 - 120
Toluene-d8 (Surr)	91		75 - 120

**Lab Sample ID: MB 500-674724/6**  
**Matrix: Water**  
**Analysis Batch: 674724**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 11:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 11:51	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 11:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 11:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 11:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 11:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 11:51	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674724/6**  
**Matrix: Water**  
**Analysis Batch: 674724**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 11:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 11:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 11:51	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 11:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 11:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/15/22 11:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 11:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 11:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 11:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 11:51	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 11:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 11:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 11:51	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 11:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 11:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 11:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 11:51	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 11:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 11:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 11:51	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 11:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 11:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 11:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 11:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 11:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 11:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 11:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 11:51	1
Naphthalene	<0.34		1.0	0.34	ug/L			09/15/22 11:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/15/22 11:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 11:51	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 11:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 11:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 11:51	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 11:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 11:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 11:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/15/22 11:51	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674724/6**  
**Matrix: Water**  
**Analysis Batch: 674724**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/15/22 11:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 11:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		09/15/22 11:51	1
4-Bromofluorobenzene (Surr)	106		72 - 124		09/15/22 11:51	1
Dibromofluoromethane	92		75 - 120		09/15/22 11:51	1
Toluene-d8 (Surr)	92		75 - 120		09/15/22 11:51	1

**Lab Sample ID: LCS 500-674724/4**  
**Matrix: Water**  
**Analysis Batch: 674724**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	45.9		ug/L		92	70 - 125
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	70 - 125
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/L		101	62 - 140
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	71 - 130
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 125
1,1-Dichloroethene	50.0	47.9		ug/L		96	67 - 122
1,1-Dichloropropene	50.0	52.5		ug/L		105	70 - 121
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	51 - 145
1,2,3-Trichloropropane	50.0	49.9		ug/L		100	50 - 133
1,2,4-Trichlorobenzene	50.0	53.3		ug/L		107	57 - 137
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/L		87	56 - 123
1,2-Dibromoethane (EDB)	50.0	46.9		ug/L		94	70 - 125
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 125
1,2-Dichloroethane	50.0	54.8		ug/L		110	68 - 127
1,2-Dichloropropane	50.0	52.9		ug/L		106	67 - 130
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	70 - 123
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 125
1,3-Dichloropropane	50.0	48.3		ug/L		97	62 - 136
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 120
2,2-Dichloropropane	50.0	52.4		ug/L		105	58 - 139
2-Chlorotoluene	50.0	51.2		ug/L		102	70 - 125
4-Chlorotoluene	50.0	52.2		ug/L		104	68 - 124
Benzene	50.0	48.5		ug/L		97	70 - 120
Bromobenzene	50.0	51.5		ug/L		103	70 - 122
Bromochloromethane	50.0	48.2		ug/L		96	65 - 122
Bromodichloromethane	50.0	48.7		ug/L		97	69 - 120
Bromoform	50.0	42.5		ug/L		85	56 - 132
Bromomethane	50.0	46.1		ug/L		92	40 - 152
Carbon tetrachloride	50.0	52.8		ug/L		106	59 - 133
Chlorobenzene	50.0	48.7		ug/L		97	70 - 120
Chloroethane	50.0	47.7		ug/L		95	48 - 136
Chloroform	50.0	52.8		ug/L		106	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674724/4**  
**Matrix: Water**  
**Analysis Batch: 674724**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	44.4		ug/L		89	56 - 152
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 125
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	64 - 127
Dibromochloromethane	50.0	45.2		ug/L		90	68 - 125
Dibromomethane	50.0	47.9		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	45.1		ug/L		90	40 - 159
Ethylbenzene	50.0	46.6		ug/L		93	70 - 123
Hexachlorobutadiene	50.0	52.0		ug/L		104	51 - 150
Isopropylbenzene	50.0	52.0		ug/L		104	70 - 126
Methyl tert-butyl ether	50.0	49.3		ug/L		99	55 - 123
Methylene Chloride	50.0	44.5		ug/L		89	69 - 125
Naphthalene	50.0	48.4		ug/L		97	53 - 144
n-Butylbenzene	50.0	48.8		ug/L		98	68 - 125
N-Propylbenzene	50.0	50.8		ug/L		102	69 - 127
p-Isopropyltoluene	50.0	51.9		ug/L		104	70 - 125
sec-Butylbenzene	50.0	50.8		ug/L		102	70 - 123
Styrene	50.0	47.3		ug/L		95	70 - 120
tert-Butylbenzene	50.0	52.4		ug/L		105	70 - 121
Tetrachloroethene	50.0	49.3		ug/L		99	70 - 128
Toluene	50.0	49.4		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 125
trans-1,3-Dichloropropene	50.0	47.7		ug/L		95	62 - 128
Trichloroethene	50.0	51.8		ug/L		104	70 - 125
Trichlorofluoromethane	50.0	49.0		ug/L		98	55 - 128
Vinyl chloride	50.0	44.8		ug/L		90	64 - 126
Xylenes, Total	100	94.5		ug/L		95	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	91		75 - 120

**Lab Sample ID: MB 500-674797/6**  
**Matrix: Water**  
**Analysis Batch: 674797**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/15/22 14:28	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/15/22 14:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/15/22 14:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/15/22 14:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/15/22 14:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/15/22 14:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			09/15/22 14:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/15/22 14:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			09/15/22 14:28	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674797/6**  
**Matrix: Water**  
**Analysis Batch: 674797**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	0.746	J	1.0	0.36	ug/L			09/15/22 14:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/15/22 14:28	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/15/22 14:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/15/22 14:28	1
1,3,5-Trimethylbenzene	0.785	J	1.0	0.25	ug/L			09/15/22 14:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/15/22 14:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/15/22 14:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/15/22 14:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/15/22 14:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/15/22 14:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/15/22 14:28	1
Benzene	<0.15		0.50	0.15	ug/L			09/15/22 14:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/15/22 14:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/15/22 14:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/15/22 14:28	1
Bromoform	<0.48		1.0	0.48	ug/L			09/15/22 14:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/15/22 14:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/15/22 14:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/15/22 14:28	1
Chloroform	<0.37		2.0	0.37	ug/L			09/15/22 14:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/15/22 14:28	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/15/22 14:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/15/22 14:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/15/22 14:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/15/22 14:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/15/22 14:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/15/22 14:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/15/22 14:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/15/22 14:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/15/22 14:28	1
Naphthalene	0.839	J	1.0	0.34	ug/L			09/15/22 14:28	1
n-Butylbenzene	0.653	J	1.0	0.39	ug/L			09/15/22 14:28	1
N-Propylbenzene	0.612	J	1.0	0.41	ug/L			09/15/22 14:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/15/22 14:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 14:28	1
Styrene	<0.39		1.0	0.39	ug/L			09/15/22 14:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/15/22 14:28	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/15/22 14:28	1
Toluene	<0.15		0.50	0.15	ug/L			09/15/22 14:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/15/22 14:28	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/15/22 14:28	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/15/22 14:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/15/22 14:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/15/22 14:28	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674797/6**  
**Matrix: Water**  
**Analysis Batch: 674797**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/15/22 14:28	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 126					09/15/22 14:28	1
4-Bromofluorobenzene (Surr)	108		72 - 124					09/15/22 14:28	1
Dibromofluoromethane	89		75 - 120					09/15/22 14:28	1
Toluene-d8 (Surr)	95		75 - 120					09/15/22 14:28	1

**Lab Sample ID: LCS 500-674797/7**  
**Matrix: Water**  
**Analysis Batch: 674797**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	40.0		ug/L		80	70 - 125
1,1,1-Trichloroethane	50.0	37.1		ug/L		74	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.2		ug/L		80	62 - 140
1,1,2-Trichloroethane	50.0	40.8		ug/L		82	71 - 130
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 125
1,1-Dichloroethene	50.0	38.7		ug/L		77	67 - 122
1,1-Dichloropropene	50.0	39.7		ug/L		79	70 - 121
1,2,3-Trichlorobenzene	50.0	45.7		ug/L		91	51 - 145
1,2,3-Trichloropropane	50.0	37.4		ug/L		75	50 - 133
1,2,4-Trichlorobenzene	50.0	46.6		ug/L		93	57 - 137
1,2,4-Trimethylbenzene	50.0	43.1		ug/L		86	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	33.1		ug/L		66	56 - 123
1,2-Dibromoethane (EDB)	50.0	36.2		ug/L		72	70 - 125
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	39.8		ug/L		80	68 - 127
1,2-Dichloropropane	50.0	46.8		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	43.5		ug/L		87	70 - 123
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	39.3		ug/L		79	62 - 136
1,4-Dichlorobenzene	50.0	43.8		ug/L		88	70 - 120
2,2-Dichloropropane	50.0	37.5		ug/L		75	58 - 139
2-Chlorotoluene	50.0	48.4		ug/L		97	70 - 125
4-Chlorotoluene	50.0	47.8		ug/L		96	68 - 124
Benzene	50.0	40.5		ug/L		81	70 - 120
Bromobenzene	50.0	47.4		ug/L		95	70 - 122
Bromochloromethane	50.0	39.1		ug/L		78	65 - 122
Bromodichloromethane	50.0	37.9		ug/L		76	69 - 120
Bromoform	50.0	36.5		ug/L		73	56 - 132
Bromomethane	50.0	25.9		ug/L		52	40 - 152
Carbon tetrachloride	50.0	34.8		ug/L		70	59 - 133
Chlorobenzene	50.0	43.7		ug/L		87	70 - 120
Chloroethane	50.0	35.2		ug/L		70	48 - 136
Chloroform	50.0	35.8		ug/L		72	70 - 120
Chloromethane	50.0	43.2		ug/L		86	56 - 152
cis-1,2-Dichloroethene	50.0	42.2		ug/L		84	70 - 125

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674797/7**  
**Matrix: Water**  
**Analysis Batch: 674797**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	50.0	34.7		ug/L		69	64 - 127
Dibromochloromethane	50.0	38.3		ug/L		77	68 - 125
Dibromomethane	50.0	35.1		ug/L		70	70 - 120
Dichlorodifluoromethane	50.0	26.8		ug/L		54	40 - 159
Ethylbenzene	50.0	45.1		ug/L		90	70 - 123
Hexachlorobutadiene	50.0	46.5		ug/L		93	51 - 150
Isopropylbenzene	50.0	44.0		ug/L		88	70 - 126
Methyl tert-butyl ether	50.0	33.6		ug/L		67	55 - 123
Methylene Chloride	50.0	38.3		ug/L		77	69 - 125
Naphthalene	50.0	39.2		ug/L		78	53 - 144
n-Butylbenzene	50.0	42.1		ug/L		84	68 - 125
N-Propylbenzene	50.0	43.5		ug/L		87	69 - 127
p-Isopropyltoluene	50.0	44.0		ug/L		88	70 - 125
sec-Butylbenzene	50.0	43.3		ug/L		87	70 - 123
Styrene	50.0	38.6		ug/L		77	70 - 120
tert-Butylbenzene	50.0	44.4		ug/L		89	70 - 121
Tetrachloroethene	50.0	42.8		ug/L		86	70 - 128
Toluene	50.0	44.5		ug/L		89	70 - 125
trans-1,2-Dichloroethene	50.0	40.9		ug/L		82	70 - 125
trans-1,3-Dichloropropene	50.0	33.4		ug/L		67	62 - 128
Trichloroethene	50.0	43.9		ug/L		88	70 - 125
Trichlorofluoromethane	50.0	26.9	*-	ug/L		54	55 - 128
Vinyl chloride	50.0	34.7		ug/L		69	64 - 126
Xylenes, Total	100	82.0		ug/L		82	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane	85		75 - 120
Toluene-d8 (Surr)	96		75 - 120

**Lab Sample ID: MB 500-674923/7**  
**Matrix: Water**  
**Analysis Batch: 674923**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			09/16/22 11:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/16/22 11:18	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			09/16/22 11:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/16/22 11:18	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			09/16/22 11:18	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			09/16/22 11:18	1
1,2,3-Trichlorobenzene	0.579	J	1.0	0.46	ug/L			09/16/22 11:18	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			09/16/22 11:18	1
1,2,4-Trichlorobenzene	0.420	J	1.0	0.34	ug/L			09/16/22 11:18	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			09/16/22 11:18	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674923/7**  
**Matrix: Water**  
**Analysis Batch: 674923**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			09/16/22 11:18	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			09/16/22 11:18	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			09/16/22 11:18	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			09/16/22 11:18	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			09/16/22 11:18	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			09/16/22 11:18	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			09/16/22 11:18	1
Benzene	<0.15		0.50	0.15	ug/L			09/16/22 11:18	1
Bromobenzene	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			09/16/22 11:18	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			09/16/22 11:18	1
Bromoform	<0.48		1.0	0.48	ug/L			09/16/22 11:18	1
Bromomethane	<0.80		3.0	0.80	ug/L			09/16/22 11:18	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			09/16/22 11:18	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
Chloroethane	<0.51		1.0	0.51	ug/L			09/16/22 11:18	1
Chloroform	<0.37		2.0	0.37	ug/L			09/16/22 11:18	1
Chloromethane	<0.32		1.0	0.32	ug/L			09/16/22 11:18	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			09/16/22 11:18	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			09/16/22 11:18	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			09/16/22 11:18	1
Dibromomethane	<0.27		1.0	0.27	ug/L			09/16/22 11:18	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			09/16/22 11:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/16/22 11:18	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			09/16/22 11:18	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			09/16/22 11:18	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			09/16/22 11:18	1
Naphthalene	0.475	J	1.0	0.34	ug/L			09/16/22 11:18	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			09/16/22 11:18	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			09/16/22 11:18	1
Styrene	<0.39		1.0	0.39	ug/L			09/16/22 11:18	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			09/16/22 11:18	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			09/16/22 11:18	1
Toluene	<0.15		0.50	0.15	ug/L			09/16/22 11:18	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			09/16/22 11:18	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			09/16/22 11:18	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/16/22 11:18	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			09/16/22 11:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			09/16/22 11:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/16/22 11:18	1

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-674923/7**  
**Matrix: Water**  
**Analysis Batch: 674923**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		09/16/22 11:18	1
4-Bromofluorobenzene (Surr)	85		72 - 124		09/16/22 11:18	1
Dibromofluoromethane	96		75 - 120		09/16/22 11:18	1
Toluene-d8 (Surr)	101		75 - 120		09/16/22 11:18	1

**Lab Sample ID: LCS 500-674923/4**  
**Matrix: Water**  
**Analysis Batch: 674923**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.2		ug/L		86	62 - 140
1,1,2-Trichloroethane	50.0	46.6		ug/L		93	71 - 130
1,1-Dichloroethane	50.0	47.8		ug/L		96	70 - 125
1,1-Dichloroethene	50.0	52.1		ug/L		104	67 - 122
1,1-Dichloropropene	50.0	50.4		ug/L		101	70 - 121
1,2,3-Trichlorobenzene	50.0	37.3		ug/L		75	51 - 145
1,2,3-Trichloropropane	50.0	44.0		ug/L		88	50 - 133
1,2,4-Trichlorobenzene	50.0	43.0		ug/L		86	57 - 137
1,2,4-Trimethylbenzene	50.0	46.7		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	40.7		ug/L		81	56 - 123
1,2-Dibromoethane (EDB)	50.0	45.7		ug/L		91	70 - 125
1,2-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 125
1,2-Dichloroethane	50.0	50.0		ug/L		100	68 - 127
1,2-Dichloropropane	50.0	48.4		ug/L		97	67 - 130
1,3,5-Trimethylbenzene	50.0	46.4		ug/L		93	70 - 123
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 125
1,3-Dichloropropane	50.0	46.1		ug/L		92	62 - 136
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 120
2,2-Dichloropropane	50.0	46.7		ug/L		93	58 - 139
2-Chlorotoluene	50.0	46.5		ug/L		93	70 - 125
4-Chlorotoluene	50.0	45.5		ug/L		91	68 - 124
Benzene	50.0	48.2		ug/L		96	70 - 120
Bromobenzene	50.0	47.2		ug/L		94	70 - 122
Bromochloromethane	50.0	49.9		ug/L		100	65 - 122
Bromodichloromethane	50.0	52.1		ug/L		104	69 - 120
Bromoform	50.0	53.0		ug/L		106	56 - 132
Bromomethane	50.0	61.4		ug/L		123	40 - 152
Carbon tetrachloride	50.0	56.2		ug/L		112	59 - 133
Chlorobenzene	50.0	48.6		ug/L		97	70 - 120
Chloroethane	50.0	58.3		ug/L		117	48 - 136
Chloroform	50.0	48.3		ug/L		97	70 - 120
Chloromethane	50.0	44.4		ug/L		89	56 - 152
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 125
cis-1,3-Dichloropropene	50.0	45.3		ug/L		91	64 - 127
Dibromochloromethane	50.0	50.3		ug/L		101	68 - 125
Dibromomethane	50.0	48.3		ug/L		97	70 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-674923/4**  
**Matrix: Water**  
**Analysis Batch: 674923**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	50.0	53.3		ug/L		107	40 - 159
Ethylbenzene	50.0	45.9		ug/L		92	70 - 123
Hexachlorobutadiene	50.0	47.6		ug/L		95	51 - 150
Isopropylbenzene	50.0	47.9		ug/L		96	70 - 126
Methyl tert-butyl ether	50.0	44.8		ug/L		90	55 - 123
Methylene Chloride	50.0	46.3		ug/L		93	69 - 125
Naphthalene	50.0	34.6		ug/L		69	53 - 144
n-Butylbenzene	50.0	46.4		ug/L		93	68 - 125
N-Propylbenzene	50.0	47.6		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	48.1		ug/L		96	70 - 125
sec-Butylbenzene	50.0	48.6		ug/L		97	70 - 123
Styrene	50.0	47.6		ug/L		95	70 - 120
tert-Butylbenzene	50.0	48.3		ug/L		97	70 - 121
Tetrachloroethene	50.0	55.8		ug/L		112	70 - 128
Toluene	50.0	46.7		ug/L		93	70 - 125
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 125
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	62 - 128
Trichloroethene	50.0	50.6		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	32.3		ug/L		65	55 - 128
Vinyl chloride	50.0	47.7		ug/L		95	64 - 126
Xylenes, Total	100	96.5		ug/L		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 126
4-Bromofluorobenzene (Surr)	91		72 - 124
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	102		75 - 120

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 480-641277/3**  
**Matrix: Water**  
**Analysis Batch: 641277**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			09/13/22 17:32	1
Ethane	<1.5		7.5	1.5	ug/L			09/13/22 17:32	1
Ethene	<1.5		7.0	1.5	ug/L			09/13/22 17:32	1

**Lab Sample ID: LCS 480-641277/4**  
**Matrix: Water**  
**Analysis Batch: 641277**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.4	19.5		ug/L		101	85 - 120
Ethane	36.3	38.7		ug/L		107	79 - 120
Ethene	34.0	37.0		ug/L		109	85 - 120

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# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

**Lab Sample ID: LCSD 480-641277/5**  
**Matrix: Water**  
**Analysis Batch: 641277**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.4	18.7		ug/L		97	85 - 120	4	50
Ethane	36.3	37.2		ug/L		102	79 - 120	4	50
Ethene	34.0	36.6		ug/L		108	85 - 120	1	50

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 500-673813/1-A**  
**Matrix: Water**  
**Analysis Batch: 674091**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 673813**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/09/22 08:54	09/09/22 19:15	1
Chromium	<1.1		5.0	1.1	ug/L		09/09/22 08:54	09/09/22 19:15	1
Iron	<47		100	47	ug/L		09/09/22 08:54	09/09/22 19:15	1

**Lab Sample ID: LCS 500-673813/2-A**  
**Matrix: Water**  
**Analysis Batch: 674091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 673813**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	93.4		ug/L		93	80 - 120
Chromium	200	202		ug/L		101	80 - 120
Iron	1000	1030		ug/L		103	80 - 120

**Lab Sample ID: 500-221852-5 MS**  
**Matrix: Water**  
**Analysis Batch: 674091**

**Client Sample ID: MW-5**  
**Prep Type: Dissolved**  
**Prep Batch: 673813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.99	J	100	108		ug/L		107	75 - 125
Chromium	<1.1		200	214		ug/L		107	75 - 125
Iron	81	J	1000	1160		ug/L		108	75 - 125

**Lab Sample ID: 500-221852-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 674091**

**Client Sample ID: MW-5**  
**Prep Type: Dissolved**  
**Prep Batch: 673813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.99	J	100	104		ug/L		103	75 - 125	4	20
Chromium	<1.1		200	204		ug/L		102	75 - 125	5	20
Iron	81	J	1000	1110		ug/L		103	75 - 125	4	20

**Lab Sample ID: 500-221852-5 DU**  
**Matrix: Water**  
**Analysis Batch: 674091**

**Client Sample ID: MW-5**  
**Prep Type: Dissolved**  
**Prep Batch: 673813**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.99	J	0.873	J	ug/L		12	20
Chromium	<1.1		<1.1		ug/L		NC	20
Iron	81	J	78.6	J	ug/L		3	20

Euromins Chicago

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-674159/3**  
**Matrix: Water**  
**Analysis Batch: 674159**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.095		0.20	0.095	mg/L			09/12/22 12:21	1

**Lab Sample ID: LCS 500-674159/4**  
**Matrix: Water**  
**Analysis Batch: 674159**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.96		mg/L		99	90 - 110

**Lab Sample ID: 500-221852-9 MS**  
**Matrix: Water**  
**Analysis Batch: 674159**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.27		2.50	2.58		mg/L		92	80 - 120

**Lab Sample ID: 500-221852-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 674159**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	0.27		2.50	2.59		mg/L		93	80 - 120	0	20

## Method: 9060A - Organic Carbon, Total (TOC)

**Lab Sample ID: MB 500-674498/4**  
**Matrix: Water**  
**Analysis Batch: 674498**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<0.47		1.0	0.47	mg/L			09/13/22 13:39	1

**Lab Sample ID: LCS 500-674498/5**  
**Matrix: Water**  
**Analysis Batch: 674498**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Dup	10.0	9.86		mg/L		99	86 - 116

**Lab Sample ID: LCSD 500-674498/6**  
**Matrix: Water**  
**Analysis Batch: 674498**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Dup	10.0	9.99		mg/L		100	86 - 116	1	20

# QC Sample Results

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Method: 9060A - Organic Carbon, Total (TOC) (Continued)

**Lab Sample ID: MB 500-674749/4**  
**Matrix: Water**  
**Analysis Batch: 674749**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Dup	<0.47		1.0	0.47	mg/L			09/14/22 18:12	1

**Lab Sample ID: LCS 500-674749/5**  
**Matrix: Water**  
**Analysis Batch: 674749**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Dup	10.0	9.76		mg/L		98	86 - 116

**Lab Sample ID: LCSD 500-674749/6**  
**Matrix: Water**  
**Analysis Batch: 674749**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Dup	10.0	10.0		mg/L		100	86 - 116	3	20

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-221852-1**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 12:11

**Client Sample ID: Duplicate #1**

**Lab Sample ID: 500-221852-2**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 12:58
Total/NA	Analysis	8260B	DL	10	674267	JDD	EET CHI	09/13/22 13:21

**Client Sample ID: Duplicate #2**

**Lab Sample ID: 500-221852-3**

**Date Collected: 08/31/22 00:00**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674267	JDD	EET CHI	09/13/22 13:44
Total/NA	Analysis	8260B	DL	50	674267	JDD	EET CHI	09/13/22 14:07

**Client Sample ID: P-5**

**Lab Sample ID: 500-221852-4**

**Date Collected: 08/31/22 09:21**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 14:30
Total/NA	Analysis	8260B	DL	10	674267	JDD	EET CHI	09/13/22 14:53

**Client Sample ID: MW-5**

**Lab Sample ID: 500-221852-5**

**Date Collected: 08/31/22 10:01**

**Matrix: Water**

**Date Received: 09/07/22 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674267	JDD	EET CHI	09/13/22 15:16
Total/NA	Analysis	8260B	DL	50	674267	JDD	EET CHI	09/13/22 15:39
Total/NA	Analysis	RSK-175		1	641277	DSC	EET BUF	09/13/22 18:28
Total/NA	Analysis	RSK-175	DL	11	641277	DSC	EET BUF	09/13/22 22:14
Dissolved	Prep	3005A			673813	BDE	EET CHI	09/09/22 08:54 - 09/09/22 09:24 <sup>1</sup>
Dissolved	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 19:22
Total/NA	Analysis	300.0		100	674159	EAT	EET CHI	09/12/22 19:37
Total/NA	Analysis	9060A		1	674498	BC	EET CHI	09/13/22 19:12



# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-12**

**Date Collected: 08/31/22 11:28**

**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674454	JDD	EET CHI	09/14/22 13:10

**Client Sample ID: TW-10**

**Date Collected: 08/31/22 12:16**

**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 16:25

**Client Sample ID: P-10**

**Date Collected: 08/31/22 13:35**

**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 16:48
Total/NA	Analysis	RSK-175		11	641277	DSC	EET BUF	09/13/22 18:47
Dissolved	Prep	3005A			673813	BDE	EET CHI	09/09/22 08:54 - 09/09/22 09:24 <sup>1</sup>
Dissolved	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 19:39
Total/NA	Analysis	300.0		1	674159	EAT	EET CHI	09/12/22 19:51
Total/NA	Analysis	9060A		5	674749	BC	EET CHI	09/14/22 19:19

**Client Sample ID: MW-10**

**Date Collected: 08/31/22 14:46**

**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674267	JDD	EET CHI	09/13/22 17:11
Total/NA	Analysis	8260B	DL	50	674267	JDD	EET CHI	09/13/22 17:34
Total/NA	Analysis	RSK-175		1	641277	DSC	EET BUF	09/13/22 19:06
Total/NA	Analysis	RSK-175	DL	110	641277	DSC	EET BUF	09/13/22 22:33
Dissolved	Prep	3005A			673813	BDE	EET CHI	09/09/22 08:54 - 09/09/22 09:24 <sup>1</sup>
Dissolved	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 19:42
Total/NA	Analysis	300.0		1	674159	EAT	EET CHI	09/12/22 20:32
Total/NA	Analysis	9060A		1	674498	BC	EET CHI	09/13/22 19:42

**Client Sample ID: MW-21**

**Date Collected: 08/31/22 15:31**

**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 17:57
Total/NA	Analysis	RSK-175		1	641277	DSC	EET BUF	09/13/22 19:25
Total/NA	Analysis	RSK-175	DL	220	641277	DSC	EET BUF	09/13/22 22:52

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
 Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: MW-21**

**Lab Sample ID: 500-221852-10**

Date Collected: 08/31/22 15:31

Matrix: Water

Date Received: 09/07/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			673813	BDE	EET CHI	09/09/22 08:54 - 09/09/22 09:24 <sup>1</sup>
Dissolved	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 19:46
Total/NA	Analysis	300.0		1	674159	EAT	EET CHI	09/12/22 21:13
Total/NA	Analysis	9060A		1	674498	BC	EET CHI	09/13/22 19:54

**Client Sample ID: MW-15**

**Lab Sample ID: 500-221852-11**

Date Collected: 09/01/22 10:35

Matrix: Water

Date Received: 09/07/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674267	JDD	EET CHI	09/13/22 18:20

**Client Sample ID: MW-19**

**Lab Sample ID: 500-221852-12**

Date Collected: 09/01/22 11:24

Matrix: Water

Date Received: 09/07/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674454	JDD	EET CHI	09/14/22 17:53
Total/NA	Analysis	8260B	DL	50	674454	JDD	EET CHI	09/14/22 18:16

**Client Sample ID: MW-23**

**Lab Sample ID: 500-221852-13**

Date Collected: 09/01/22 12:07

Matrix: Water

Date Received: 09/07/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674454	JDD	EET CHI	09/14/22 18:40
Total/NA	Analysis	8260B	DL	50	674454	JDD	EET CHI	09/14/22 19:03
Total/NA	Analysis	RSK-175		1	641277	DSC	EET BUF	09/13/22 19:44
Total/NA	Analysis	RSK-175	DL	11	641277	DSC	EET BUF	09/13/22 23:11
Dissolved	Prep	3005A			673813	BDE	EET CHI	09/09/22 08:54 - 09/09/22 09:24 <sup>1</sup>
Dissolved	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 19:56
Total/NA	Analysis	300.0		10	674159	EAT	EET CHI	09/12/22 21:26
Total/NA	Analysis	9060A		1	674498	BC	EET CHI	09/13/22 20:08

**Client Sample ID: MW-22**

**Lab Sample ID: 500-221852-14**

Date Collected: 09/01/22 12:57

Matrix: Water

Date Received: 09/07/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674454	JDD	EET CHI	09/14/22 19:27

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Client Sample ID: MW-20

Date Collected: 09/01/22 13:37

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674454	JDD	EET CHI	09/14/22 19:50

## Client Sample ID: MW-1

Date Collected: 09/01/22 14:52

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674501	PSP	EET CHI	09/14/22 14:24

## Client Sample ID: MW-9

Date Collected: 09/01/22 15:38

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674501	PSP	EET CHI	09/14/22 14:48

## Client Sample ID: MW-17

Date Collected: 09/01/22 16:20

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674501	PSP	EET CHI	09/14/22 15:12

## Client Sample ID: Duplicate #3

Date Collected: 09/01/22 00:00

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674501	PSP	EET CHI	09/14/22 15:37
Total/NA	Analysis	8260B	DL	50	674501	PSP	EET CHI	09/14/22 16:01

## Client Sample ID: Duplicate #4

Date Collected: 09/01/22 00:00

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	674501	PSP	EET CHI	09/14/22 16:25

## Client Sample ID: TW-6

Date Collected: 09/02/22 09:38

Date Received: 09/07/22 10:25

Lab Sample ID: 500-221852-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674724	W1T	EET CHI	09/15/22 19:32
Total/NA	Analysis	8260B	DL	10	674923	PSP	EET CHI	09/16/22 12:04

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# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: TW-4**  
**Date Collected: 09/02/22 10:27**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-22**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674724	W1T	EET CHI	09/15/22 19:56

**Client Sample ID: P-11**  
**Date Collected: 09/02/22 11:40**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-23**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 16:14

**Client Sample ID: MW-11**  
**Date Collected: 09/02/22 12:10**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-24**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 16:41

**Client Sample ID: MW-7**  
**Date Collected: 09/02/22 13:18**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-25**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 17:07

**Client Sample ID: P-7**  
**Date Collected: 09/02/22 13:46**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-26**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B	DL	10	674923	PSP	EET CHI	09/16/22 12:27
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 17:34

**Client Sample ID: MW-16**  
**Date Collected: 09/02/22 14:24**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-27**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 18:00

**Client Sample ID: P-16**  
**Date Collected: 09/02/22 14:53**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-28**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B	DL	10	674923	PSP	EET CHI	09/16/22 12:50
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 18:27

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

**Client Sample ID: P-13**  
**Date Collected: 09/02/22 15:46**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-29**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 18:54

**Client Sample ID: MW-13**  
**Date Collected: 09/02/22 16:15**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-30**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 19:20

**Client Sample ID: MW-12**  
**Date Collected: 09/03/22 10:42**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-31**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B	DL	50	674797	W1T	EET CHI	09/15/22 15:21
Total/NA	Analysis	8260B		5	674797	W1T	EET CHI	09/15/22 15:47

**Client Sample ID: P-12**  
**Date Collected: 09/03/22 11:01**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-32**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 19:47
Total/NA	Analysis	8260B	DL	10	674797	W1T	EET CHI	09/15/22 20:14

**Client Sample ID: P-8**  
**Date Collected: 09/03/22 11:32**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-33**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 20:40
Total/NA	Analysis	8260B	DL	10	674797	W1T	EET CHI	09/15/22 21:07

**Client Sample ID: MW-8**  
**Date Collected: 09/03/22 11:50**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-34**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 21:33

**Client Sample ID: MW-14**  
**Date Collected: 09/03/22 12:16**  
**Date Received: 09/07/22 10:25**

**Lab Sample ID: 500-221852-35**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	674797	W1T	EET CHI	09/15/22 22:00

Eurofins Chicago

# Lab Chronicle

Client: GZA GeoEnvironmental, Inc.

Job ID: 500-221852-1

Project/Site: Former Gardner, Horicon - 20.0153134.20

<sup>1</sup> Completion dates and times are reported or not reported per method requirements or individual lab discretion.

## Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc.  
Project/Site: Former Gardner, Horicon - 20.0153134.20

Job ID: 500-221852-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-23

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**Eurofins Chicago**

241 Bond Street  
 University Park IL 60484  
 Phone 708-534-5200 Fax 708-534-521

**Chain of Custody Record**



<b>Client Information</b>		Sampler <i>C. Kingsworth</i>	Lab # Fredrick Sandie	Tracking No.	Client # 500 104936-29090 3
Client Contact Bernard Fenelon		Phone	Address Sanara Frearick@eurofinsus.com	Site or Orig	Page Page 3 of 5
Company GZA GeoEnvironmental Inc		Project # 50010928	<b>Analysis Requested</b>		
Address 17975 W Sarah Lane Suite 100 City Brookfield State WI 53045 Phone 262-754-2560 Email bernard.fenelon@gza.com Project Name Former Gardner Horicon Site # 500-221852 COC		Due Date Requested  TAT Requested (days) <i>Normal</i> Compliance Project Yes No Purchase Order not required Project # SSO #	Job # <i>500-221852</i>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)
1 TRIP BLANK					Water
2 DUPLICATE #1		9/31/22	-	G	Water
3 DUPLICATE #2			-		Water
4 P-5			921		Water
5 MW-5			1001		Water
6 TW-12			1128		Water
7 TW-10			1216		Water
8 P-10			1335		Water
9 MW-10			1446		Water
10 MW-21			1531		Water
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Delivery Requested I II III IV Other (specify)		Special Instructions/QC Requirements			
Empty Kit Requisitioned by		Date	Time	Method of Shipment	
Received by <i>[Signature]</i>		Date	Time	Company	
Received by <i>[Signature]</i>		Date	Time	Company	
Received by <i>[Signature]</i>		Date	Time	Company	
Custody Seal Status <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Other Remarks <i>2.1 -&gt; 0.1, 1.4 -&gt; 0.5</i>	



**Eurofins Chicago**

24 7 Bond Street  
 University Park IL 60484  
 Phone 708-534 5200 Fax 708 534 5211

**Chain of Custody Record**

eurofins

<b>Client Information</b>		Client Contact: <b>Chad Martin</b>		Client Name: <b>Fredrick Sandie</b>		Client Address: <b>Sandra Fredrick@eurofins.com</b>		COC No: <b>500-104936-29090</b>	
Company: <b>GZA GeoEnvironmental Inc</b>		Due Date Requested: <b>Normal</b>		Analysis Requested:		Job #: <b>500-221852</b>		Page 5 of 5	
Address: <b>17975 W Sarah Lane Suite 100 Brookfield WI 53045</b>		TAT Requested (days): <b>Normal</b>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes:		A HCL	
Phone: <b>262-754-2560</b>		Purchase Order not required		Field Filtered Sample (Yes or No)		B NaOH		N None	
Project Name: <b>Former Gardner Horicon</b>		Project #: <b>50010928</b>		Performance (MS/MSD) (Yes or No)		C Zn Acetate		N AsNaCO3	
Site:		SUA #:		8260B - VOCs		D Nitric Acid		P Na2O4S	
Sample Identification		Sample Date		Sample Time		300 Sulfate		K Na2S2O3	
Sample Type (C=Comp, G=grab)		Matrix (W=water, S=soil, O=wastewater)		BT Tissue Analysis		6020A Diss Metals, As Cr Fe		L Na2SO4	
Preservation Code		Field Filtered Sample (Yes or No)		Performance (MS/MSD) (Yes or No)		9060A TOC		M H2SO4	
Special Instructions/Note		8260B - VOCs		300 Sulfate		RSK_176 - MEE Only		S H2S 4	
Trip Blank		9-1-22		1035		G		T TSP Douer.al yu ale	
MW-15		1124		1207		Water		U Acetone	
MW-19		1257		1337		Water		V MCAA	
MW-23		1452		1538		Water		W pH 4-	
MW-22		1620		Duplicate #3		Water		X Trizina	
MW-20		Duplicate #4				Water		Z Other (specify)	
MW-1						Water			
MW-9						Water			
MW-17						Water			
Duplicate #3						Water			
Duplicate #4						Water			

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**Eurofins Chicago**

24 7 Bond Street  
 University Park IL 61484  
 Phone 708 534-5200 Fax 708 534 5214

**Chain of Custody Record**

eurofins

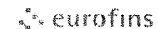
<b>Client Information</b>		Client: <b>Chad Marino</b>		Lab PM: Fredrick Sandie		Carrier Trace No:		Job No: 500-04936-29090 4					
Client Contact: Bernard Fenelon		Phone: [blank]		E-Mail: Sandra.Fredrick@eurofins.com		State of Origin:		Page: Page 4 of 5					
Company: GZA GeoEnvironmental Inc.		Address: 17975 W Sarah Lane Suite 100 Brookfield IL 61005		Due Date Requested: <b>Normal</b>		<b>Analysis Requested</b>		of # <b>500-221852</b>					
Phone: <b>262-754-2560</b>		PO #		Purchase Order not required		Preservation Codes		Total Number of Containers:					
Email: bernard.fenelon@gza.com		Project Name: Former Gardner Horicon		Site		A H <sub>2</sub> O B NaOH C Zn Acetate D Nitric Acid E NaHSO <sub>4</sub> F MeOH G Am Chlor H Ascorbic Acid J DI Water K EDTA L FDA M Hexane N None O AsNaO <sub>2</sub> P Na <sub>2</sub> O <sub>4</sub> Q As <sub>2</sub> S <sub>2</sub> O <sub>3</sub> R Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> S H <sub>2</sub> SO <sub>4</sub> T "SP Doucal" grade U Acetone V MCAA W pH 4 Y Trizma Z Other (specify)		Other:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	8260B VOCs	300 Sulfate	6020A Diss Metals As Cr Fe	9060A TOC	RSK_176 MEE Only	Special Instructions/Note
21/22	TW-6	9-2-22	938	G	Water	N	X						
22/23	TW-3		1027		Water	N	X						3B
23/24	TW-4		1059		Water	N	X						
24/25	P-11		1140		Water	N	X						
25/26	MW-11		1210		Water	N	X						
26/27	MW-7		1318		Water	N	X						
27/28	P-7		1346		Water	N	X						
28/29	MW-16		1424		Water	N	X						
29/30	P-16		1453		Water	N	X						
30/31	P-13		1546		Water	N	X						2B
31/32	MW-13		1615		Water	N	X						2B
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poisonous <input type="checkbox"/> Corrosive <input type="checkbox"/> Radioactive						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Decontamination Requested: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipping							
Relinquished by		Date/Time		Signature		Date/Time		Company					
				<i>Shirley Smith</i>		9/21/22 10:25		EARTH					
Relinquished by		Date/Time		Signature		Date/Time		Company					
Custody Seals Intact		Custody Seal No		Cooler Temperature and other Remarks									
Yes / No													

SS 9/1/22  
 21/22  
 22/23  
 23/24  
 24/25  
 25/26  
 26/27  
 27/28  
 28/29  
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 30/31

**Eurofins Chicago**

2417 Bond Street  
University Park IL 60484  
Phone 708-534-2200 Fax 708-534-5211

**Chain of Custody Record**



<b>Client Information</b>		Sample ID: <b>C. AINSWORTH</b>	Lab: Fredrick Sandie	Carrier Tracking No(s)	COC No: 500-04936-29090 4										
Client Contact: Bernard Fenelon		Phone: 262-254-2560	Email: Sandra.Fredrick@et.eurofins.com	State of Origin	Page 4 of 5										
Company: GZA GeoEnvironmental Inc. Address: 17975 W Sarah Lane Suite 100 City: Brookfield State/Zip: WI 53045		Due Date Requested	<b>Analysis Requested</b>												
Project Name: Former Gardner Horicon		TAT Requested (days): <b>NORMAL</b>	Job #: <b>500-221852</b>												
Site: SSJW#		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Codes												
Project #: 50010928		PO #	A HCL M Hexane B NaOH N None C Zn Acetate P Na2O4S D Nitric Acid Q Na2SO3 E NaHSO4 R Na2S2O3 F MeOH S H2SO4 G Am Chlor T TSP Dodecal yurate H Ascorbic Acid L Acetone I ce V MCAA J DI Water W pH 4.5 K EDTA Y Trizma L EDA Z other (specify)												
Site: SSJW#		Purchase Order not required	Other:												
Site: SSJW#		WO #	Total Number of Containers:												
Site: SSJW#		SSJW#	Special Instructions/Note												
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, DT=issue, A=Air)	Field Filtered Sample (Yes or No)	Pyrolytic (Yes or No)	3200B - VOCs	300 Sulfate	8020A Diss Metals, As Cr Fe	3060A TOC	RSK_175 MEE Only	Special Instructions/Note		
MW-12		9/3/22	1042	G	Water	N		X							
P-12			1101		Water	N		X							
P-8			1132		Water	N		X							
MW-8			1150		Water	N		X					2B		
MW-14			1216		Water	N		X							
					Water										
					Water										
					Water										
					Water										
					Water										
					Water										
					Water										
<b>Possible Hazard Identification</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>													
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements													
Empty Kit Relinquished by		Date	Time	Method of Shipment											
Relinquished by		Date/Time	Company	Received by		Date/Time	Company								
Relinquished by		Date/Time	Company	Received by		Date/Time	Company								
Relinquished by		Date/Time	Company	Received by		Date/Time	Company								
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) and other Remarks											
Yes <input type="checkbox"/> No <input type="checkbox"/>															

SS 9/7/22  
2135  
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500-221852 Waybi

ORIGIN ID:RRLA (262) 754-2560  
CHRIS AINSWORTH  
G2A GEENVIRONMENTAL  
17975 W SARAH LANE.

SHIP DATE: 24AUG22  
ACTWGT: 25.00 LB MAN  
CAD: 0269688/CAFE3511

BROOKFIELD, WI 53045  
UNITED STATES US

TO **SAMPLE RECEIPT**  
**EUROFINS**  
**2417 BOND ST.**

**UNIVERSITY PARK IL 60484**

(262) 202-5955

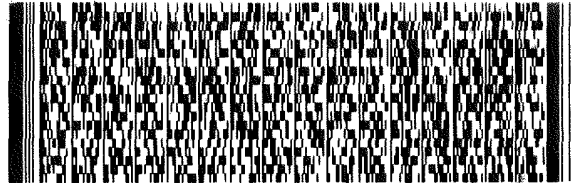
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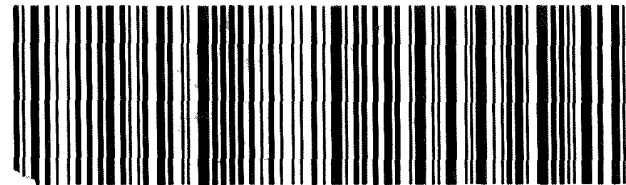
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**PRIORITY OVERNIGHT**

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**60484**  
IL-US **ORD**



ECBC/FE2D

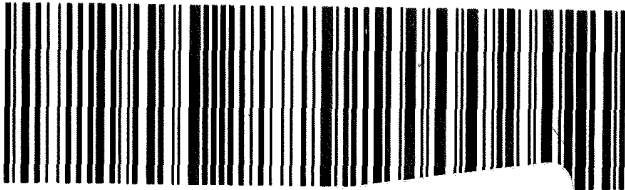
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**PRIORITY OVERNIGHT**

**79 JOTA**

**60484**  
IL-US **ORD**



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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:				
Client Contact: Shipping/Receiving		Phone:	Fredrick, Sandie	500-164974.1	500-221852-1				
Company: Eurofins Environment Testing Northeast		E-Mail: Sandra.Fredrick@et.eurofins.com	State of Origin: Wisconsin	Page: 1 of 1	Job #: 500-221852-1				
Address: 10 Hazelwood Drive, Amherst NY, 14228-2298		Accreditations Required (See note): State Program - Wisconsin							
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:	Due Date Requested: 9/20/2022							
Email:	WO #:	TAT Requested (days):							
Project Name: Former Gardner, Horicon - 20.0153134.20	Project #: 50010928	Analysis Requested							
Site:	SSOW#:	Preservation Codes:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Organic, BT=Butane, A=Air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	RSK, 175/ Methane, Ethane, Ethene	Total Number of Containers	Special Instructions/Note:
MW-5 (500-221852-5)	8/31/22	10:01 Central	Water	Water	X	X		3	
P-10 (500-221852-8)	8/31/22	13:35 Central	Water	Water	X	X		2	
MW-10 (500-221852-9)	8/31/22	14:46 Central	Water	Water	X	X		3	
MW-21 (500-221852-10)	8/31/22	15:31 Central	Water	Water	X	X		3	
MW-23 (500-221852-13)	9/1/22	12:07 Central	Water	Water	X	X		3	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>									
<b>Possible Hazard Identification</b>									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 2									
Empty Kit Relinquished by:									
Relinquished by: <i>[Signature]</i> Date: 9/8/22									
Relinquished by: <i>[Signature]</i> Date/Time: 1600									
Relinquished by: <i>[Signature]</i> Date/Time:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Custody Seal No.:									
Relinquished by: <i>[Signature]</i> Date/Time:									
Relinquished by: <i>[Signature]</i> Date/Time:									
Relinquished by: <i>[Signature]</i> Date/Time:									
Cooler Temperature(s) °C and Other Remarks: <i>[Signature]</i>									
Special Instructions/QC Requirements:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months									
Method of Shipment:									
Received by: <i>[Signature]</i> Date/Time: 9-10-22 1000									
Received by: <i>[Signature]</i> Date/Time:									
Received by: <i>[Signature]</i> Date/Time:									
Company: <i>[Signature]</i>									
Company: <i>[Signature]</i>									
Company: <i>[Signature]</i>									



## Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-221852-1

**Login Number: 221852**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1,0.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Only 1 TB received
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 500-221852-1

**Login Number: 221852**

**List Number: 2**

**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

**List Creation: 09/12/22 11:26 AM**

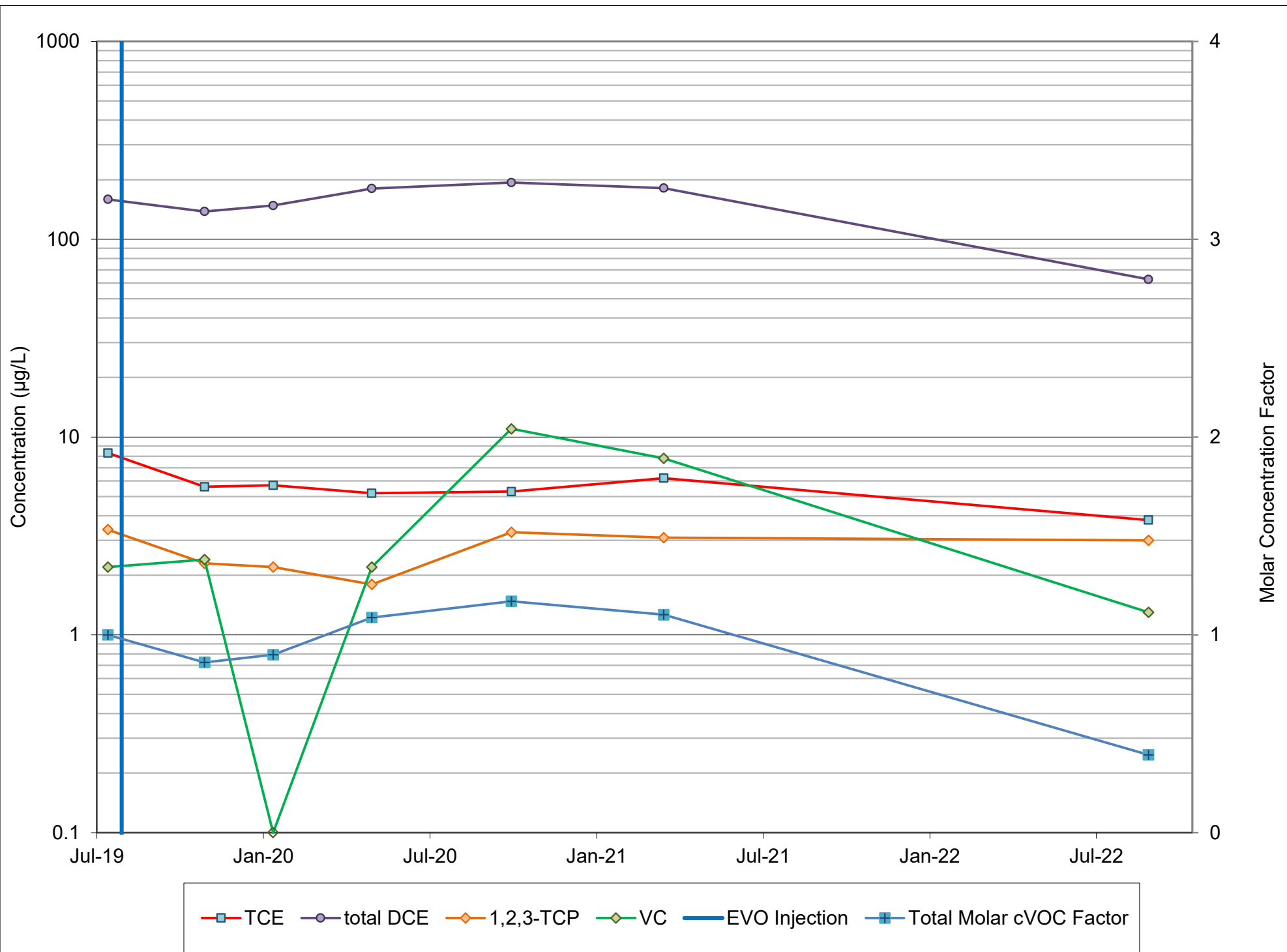
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



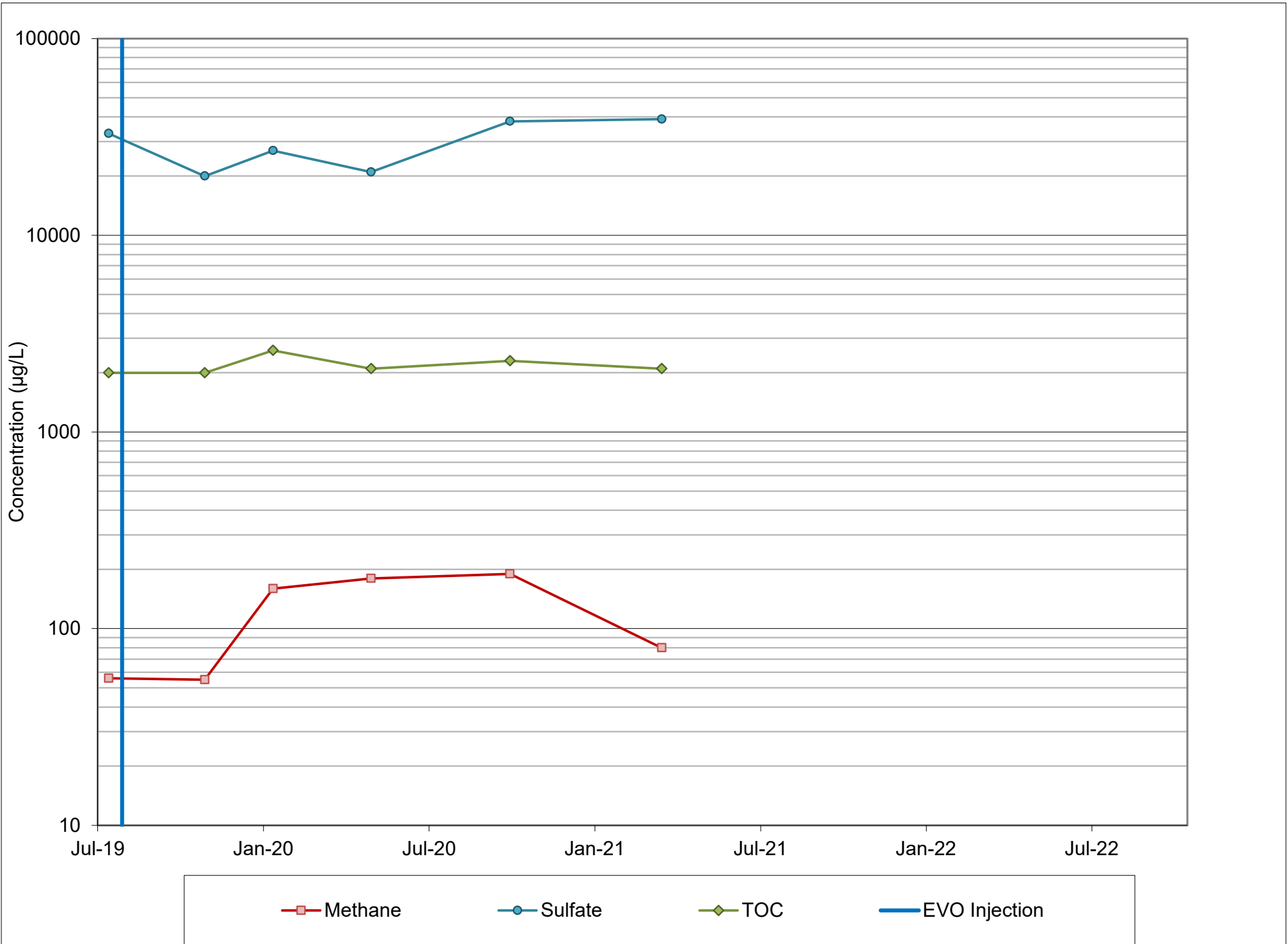
**ATTACHMENT 4**

**Trend Plots**

MW-2 cVOC Concentration Trends

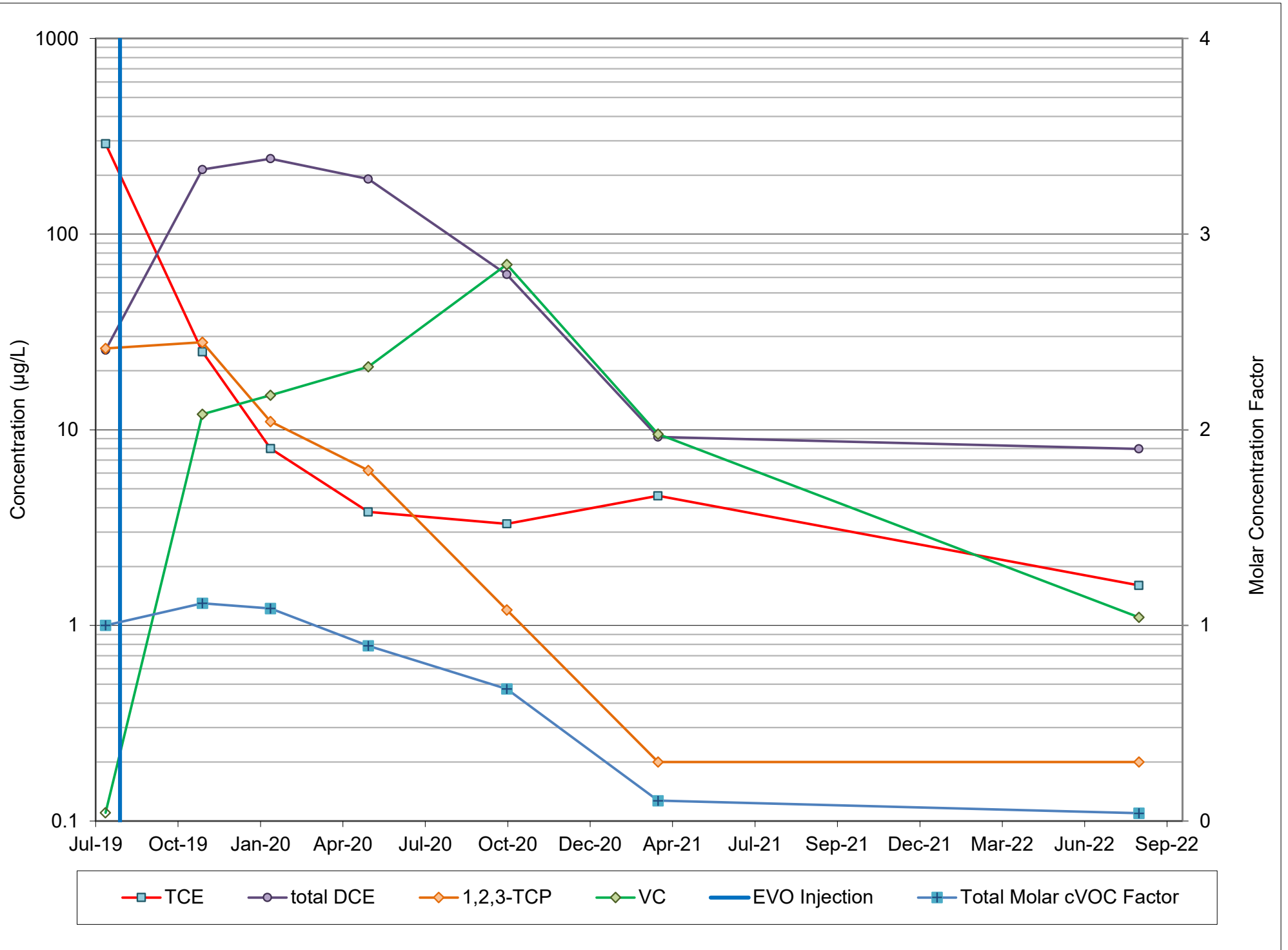


MW-2 Geochemical Parameter Concentration Trends

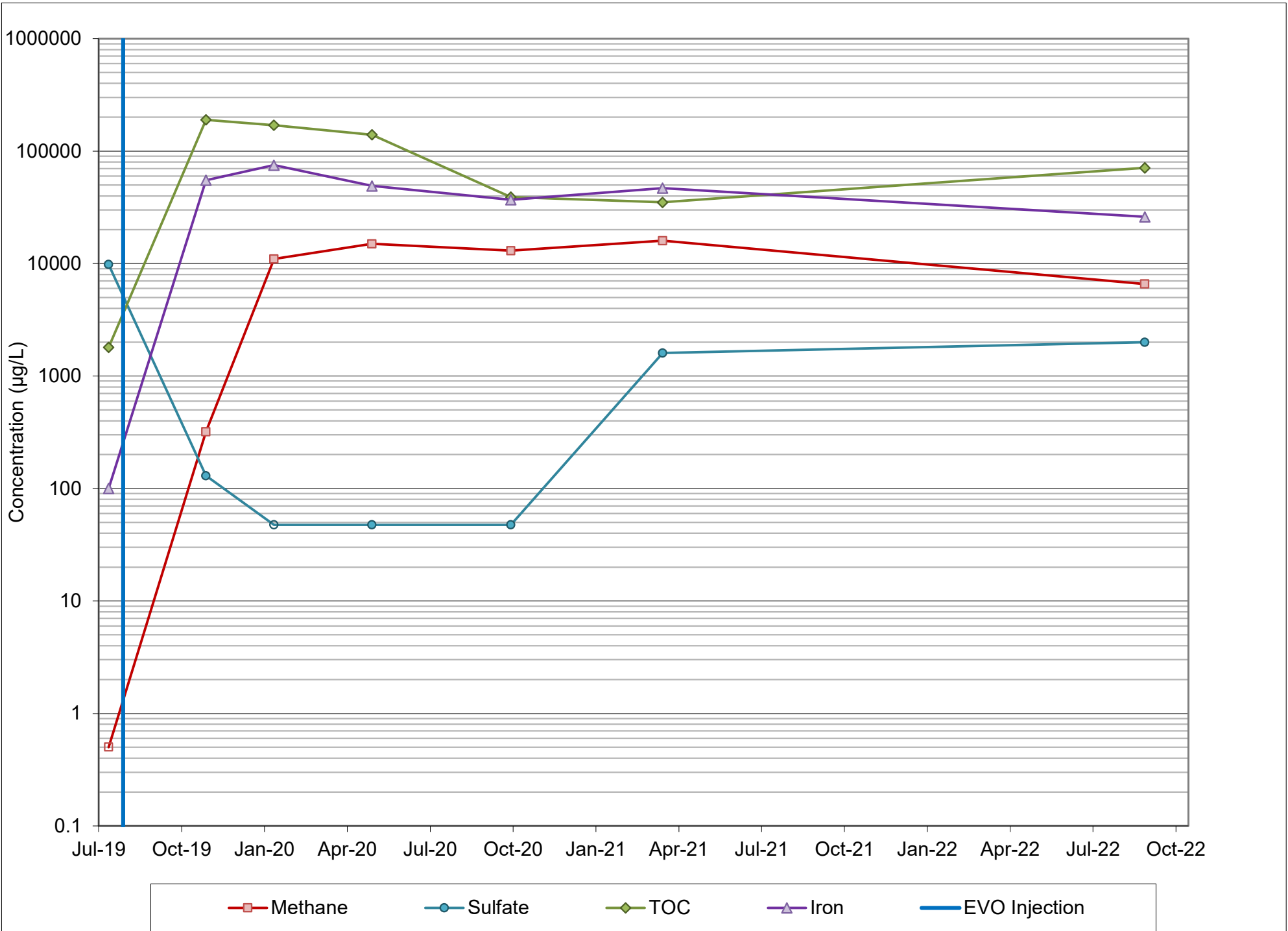




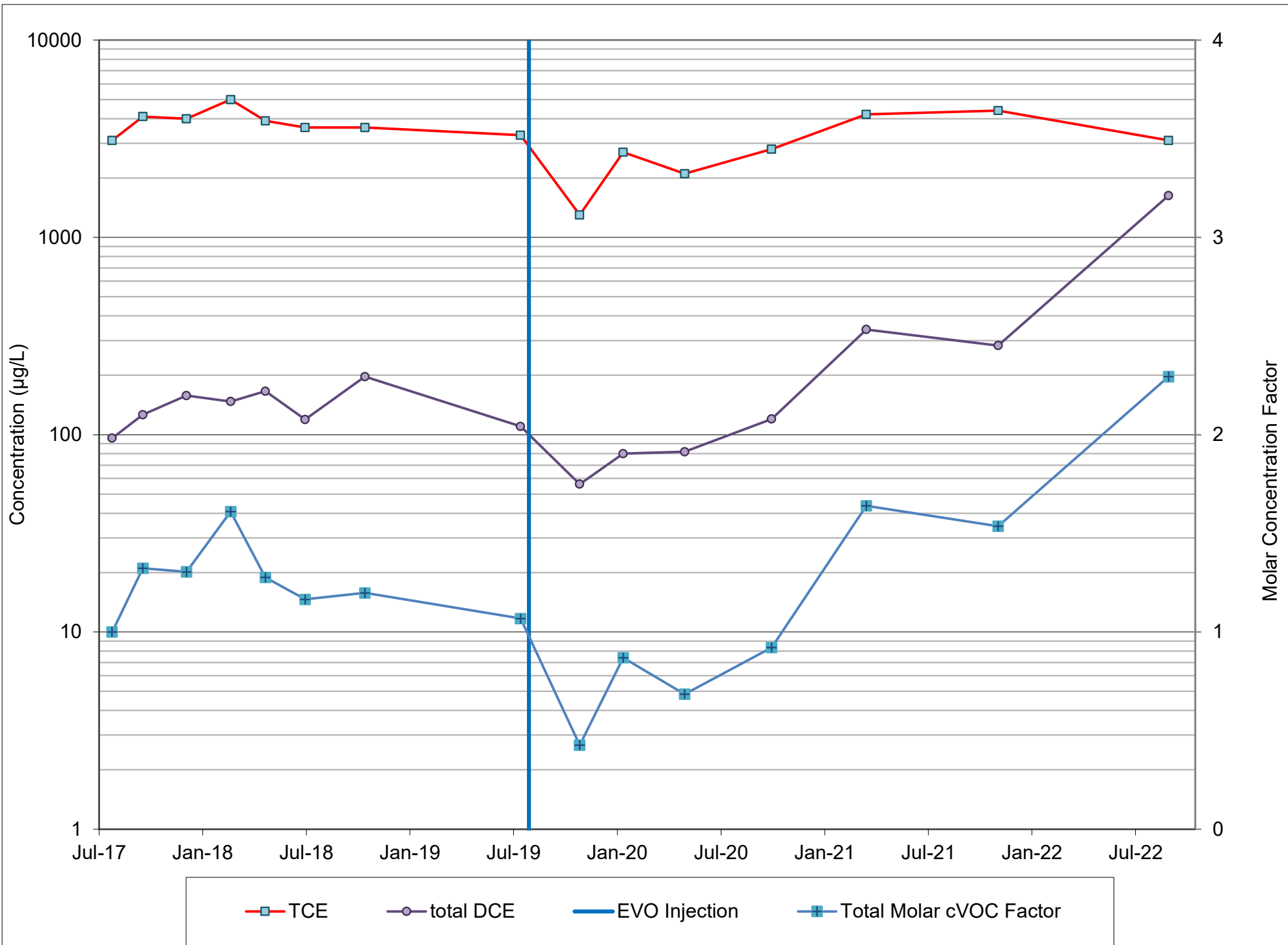
MW-3 cVOC Concentration Trends



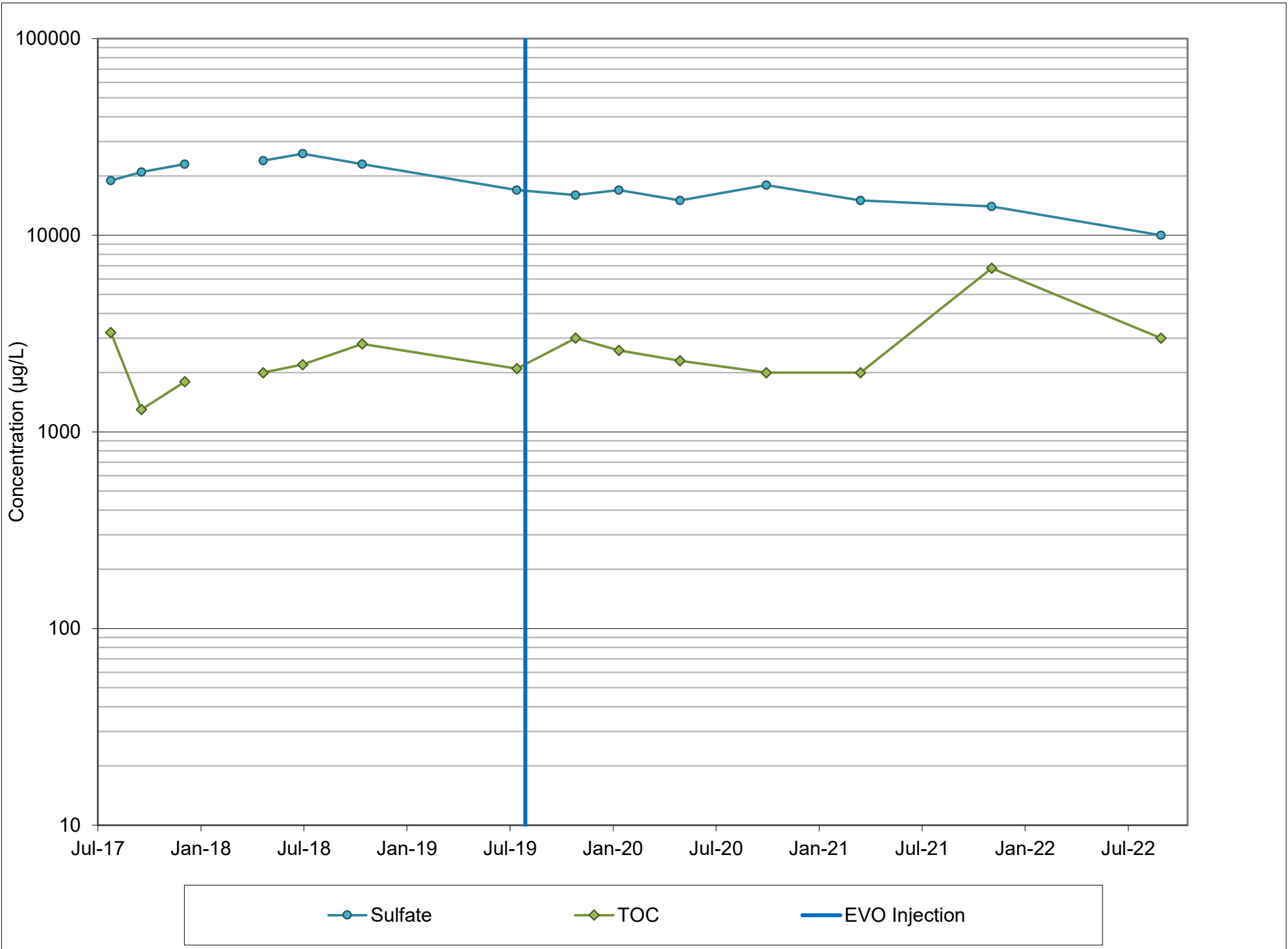
MW-3 Geochemical Parameter Concentration Trends



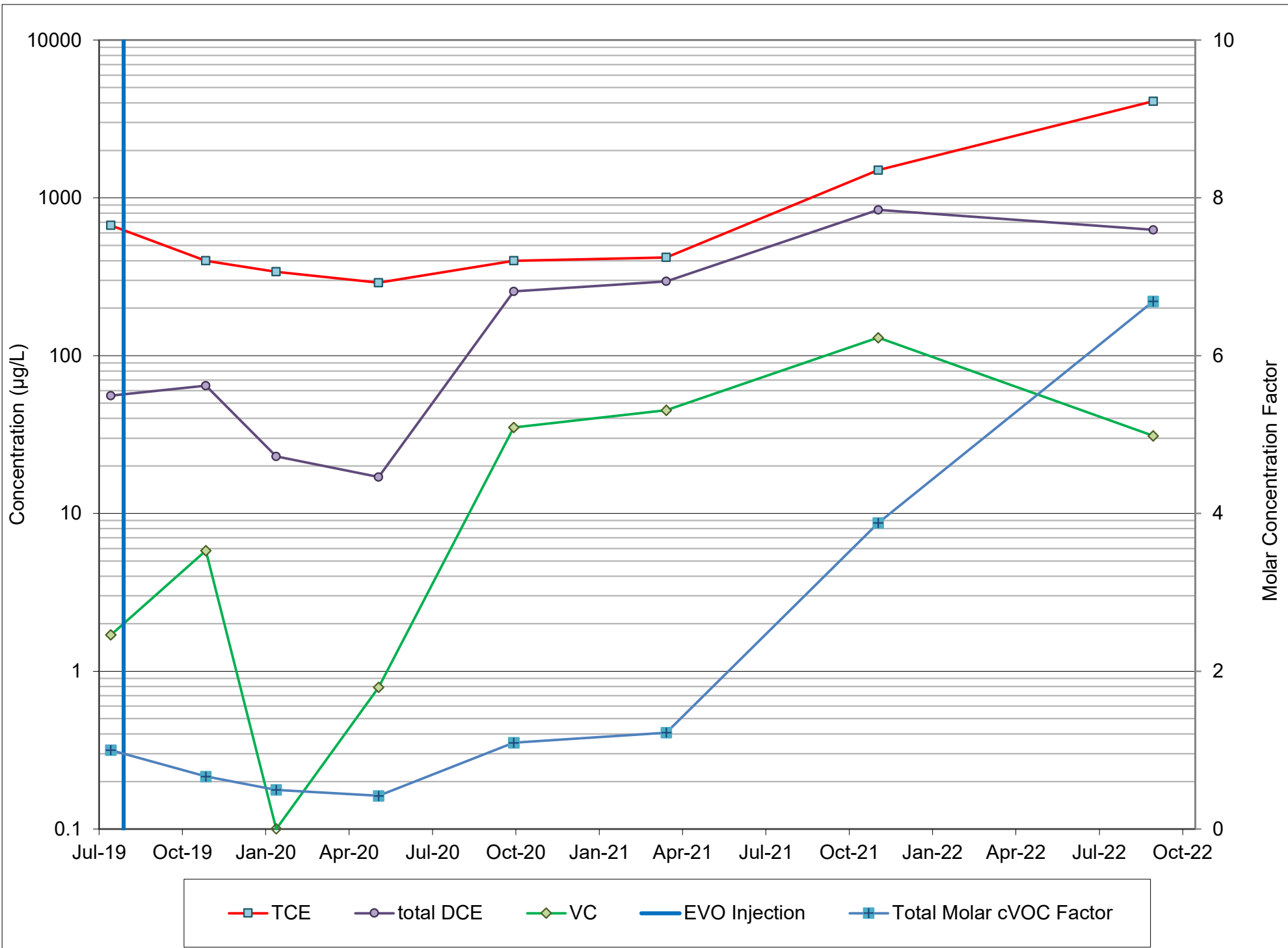
MW-4 cVOC Concentration Trends



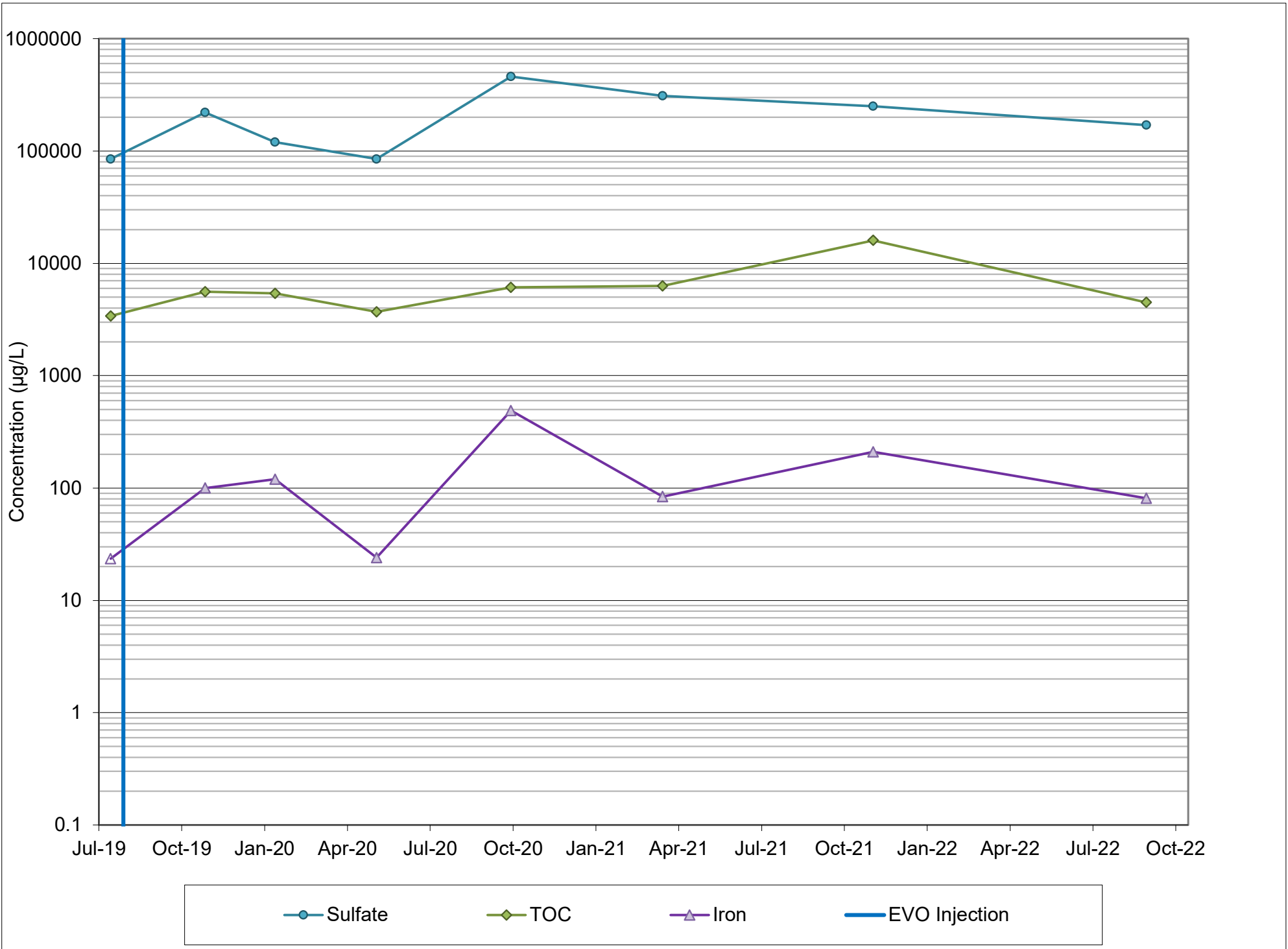
MW-4 Geochemical Parameter Concentration Trends



MW-5 cVOC Concentration Trends

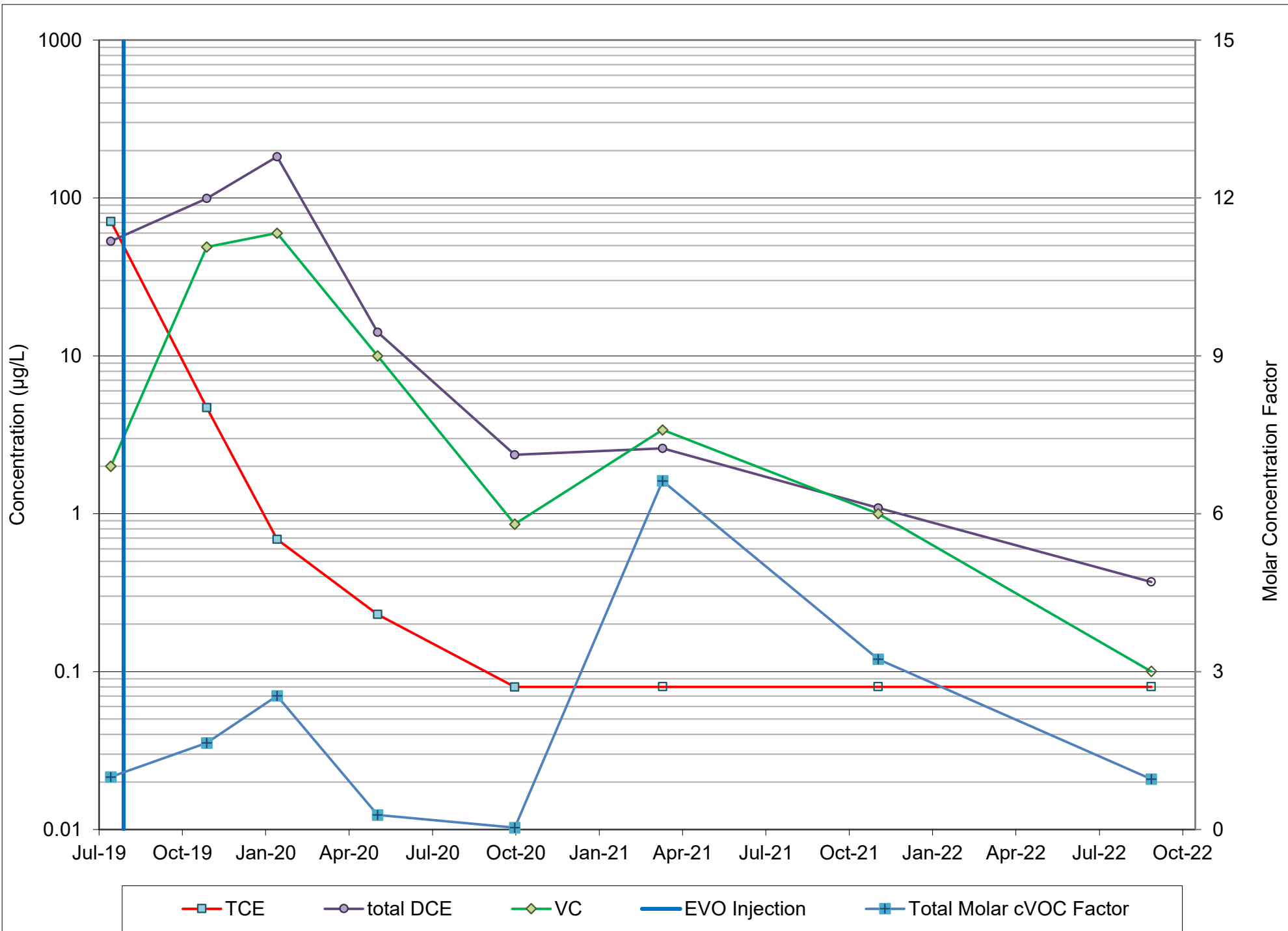


MW-5 Geochemical Parameter Concentration Trends

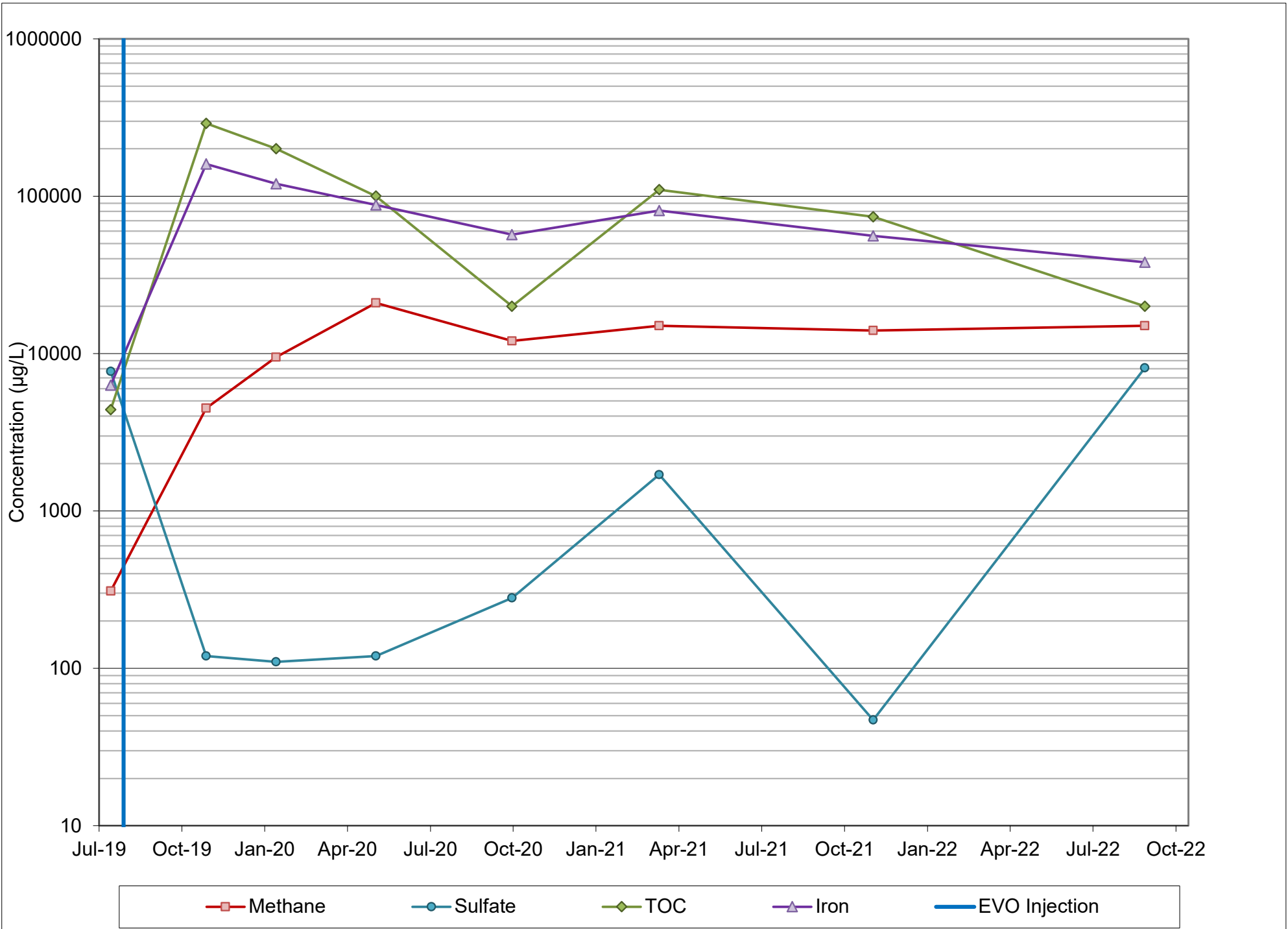




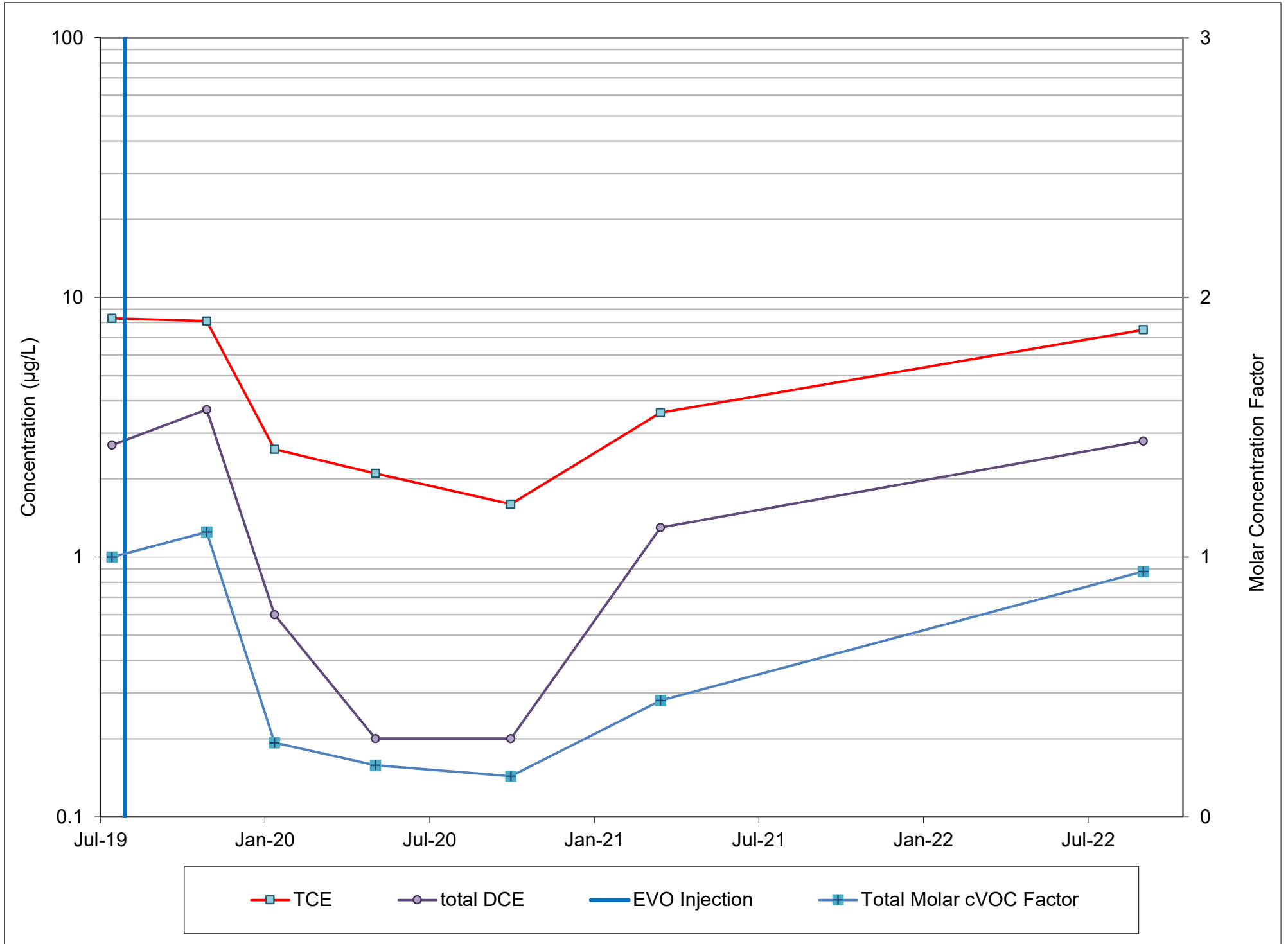
MW-6 cVOC Concentration Trends



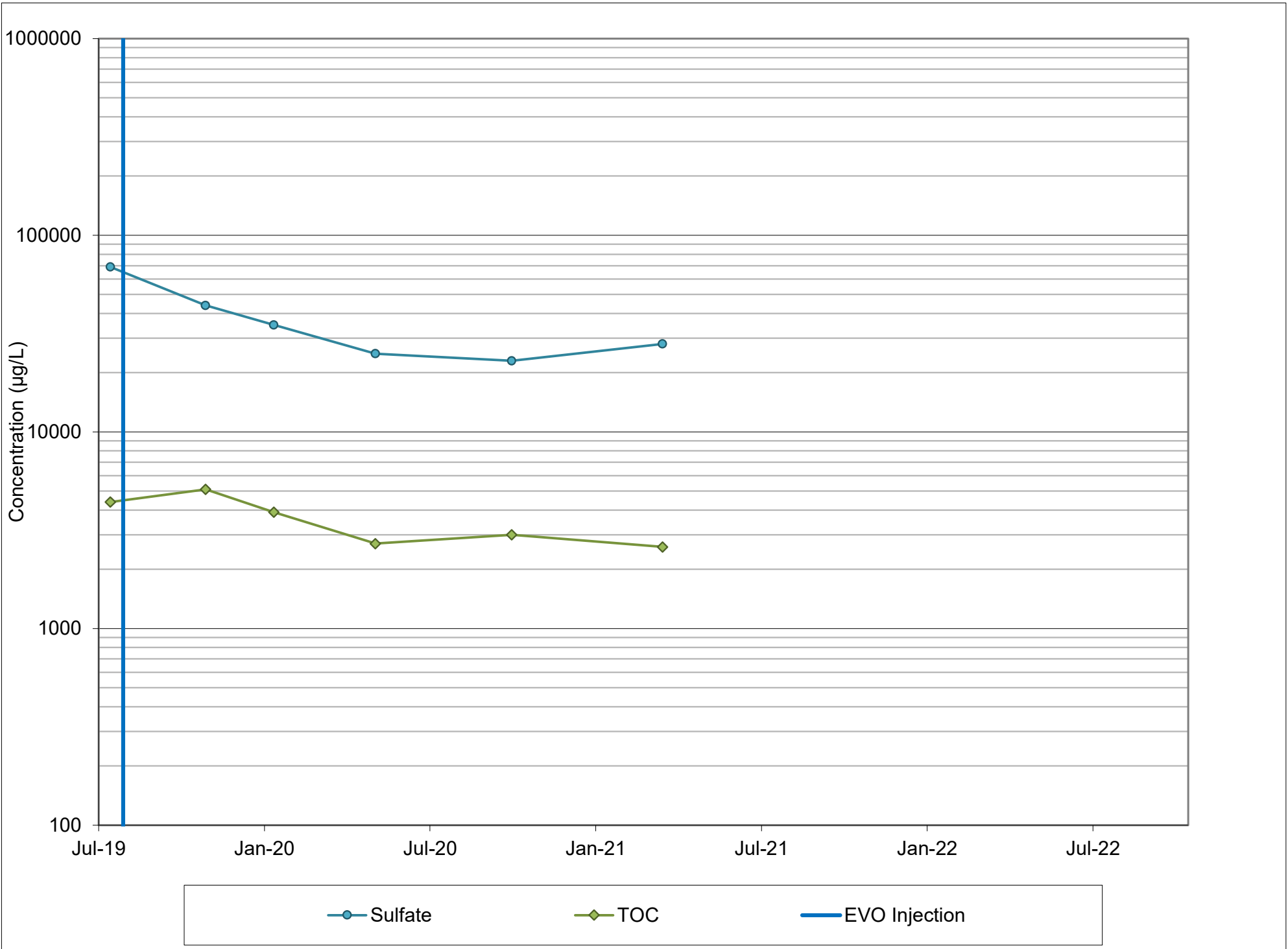
MW-6 Geochemical Parameter Concentration Trends



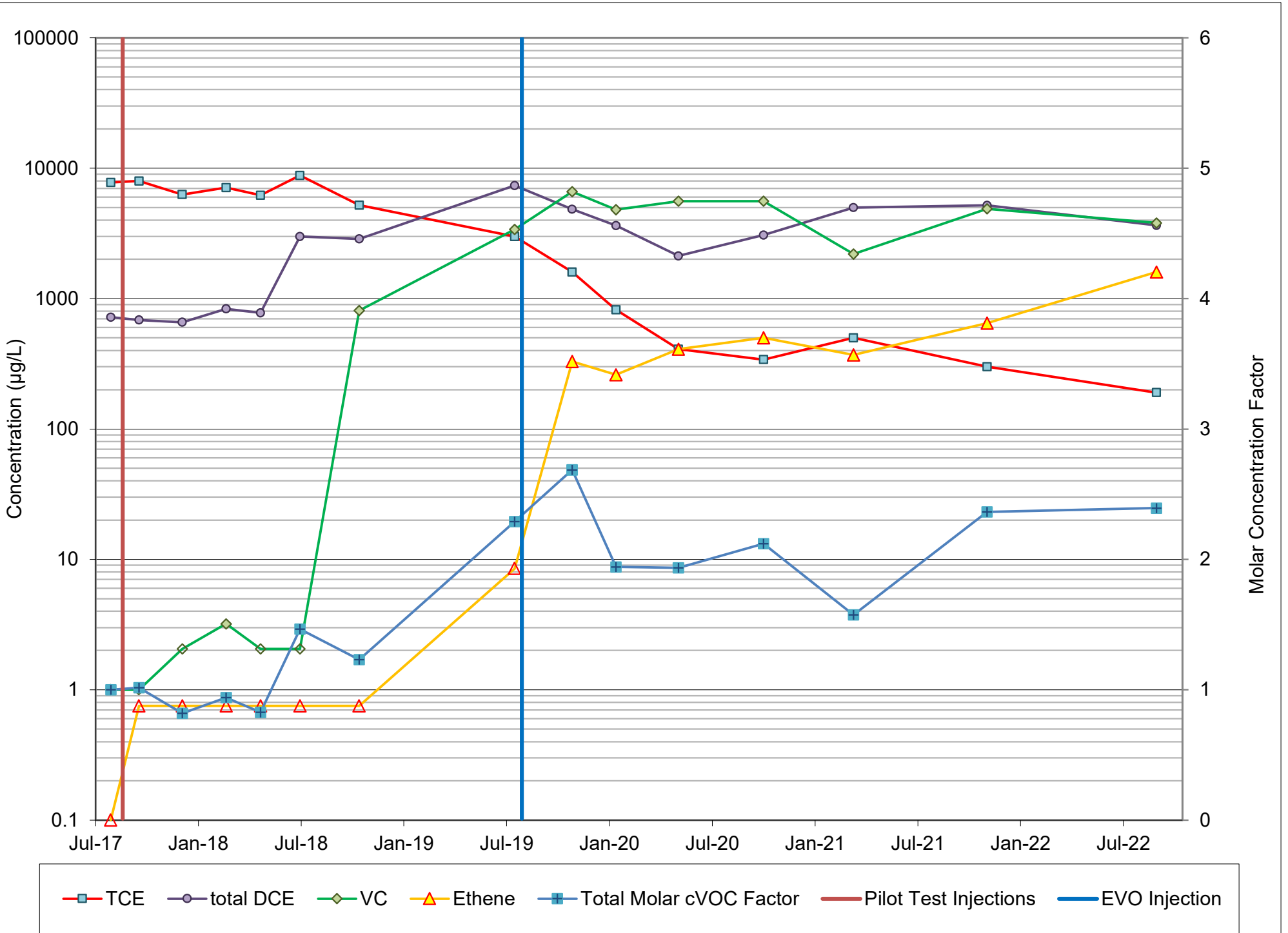
MW-7 cVOC Concentration Trends



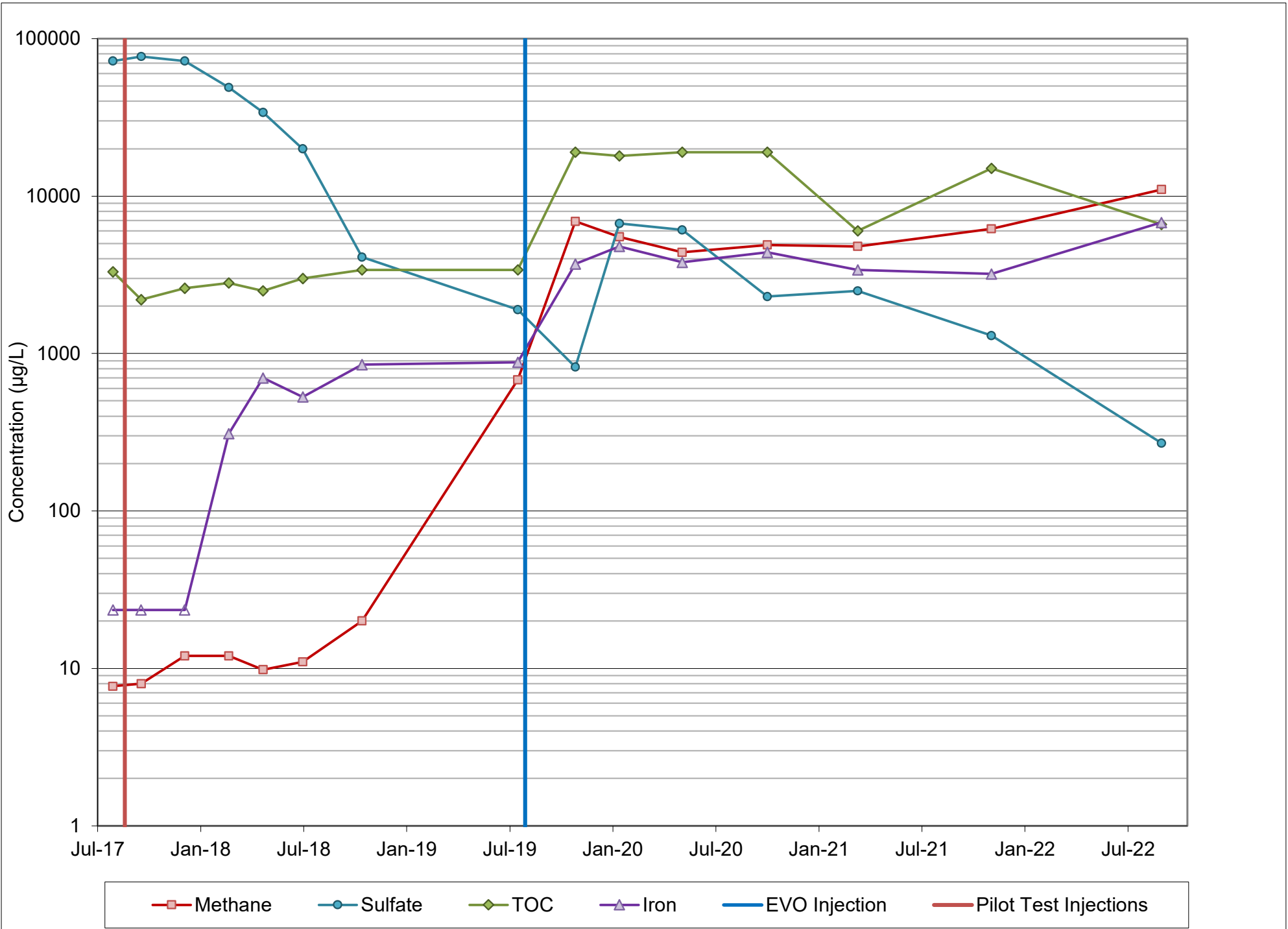
MW-7 Geochemical Parameter Concentration Trends



MW-10 cVOC Concentration Trends

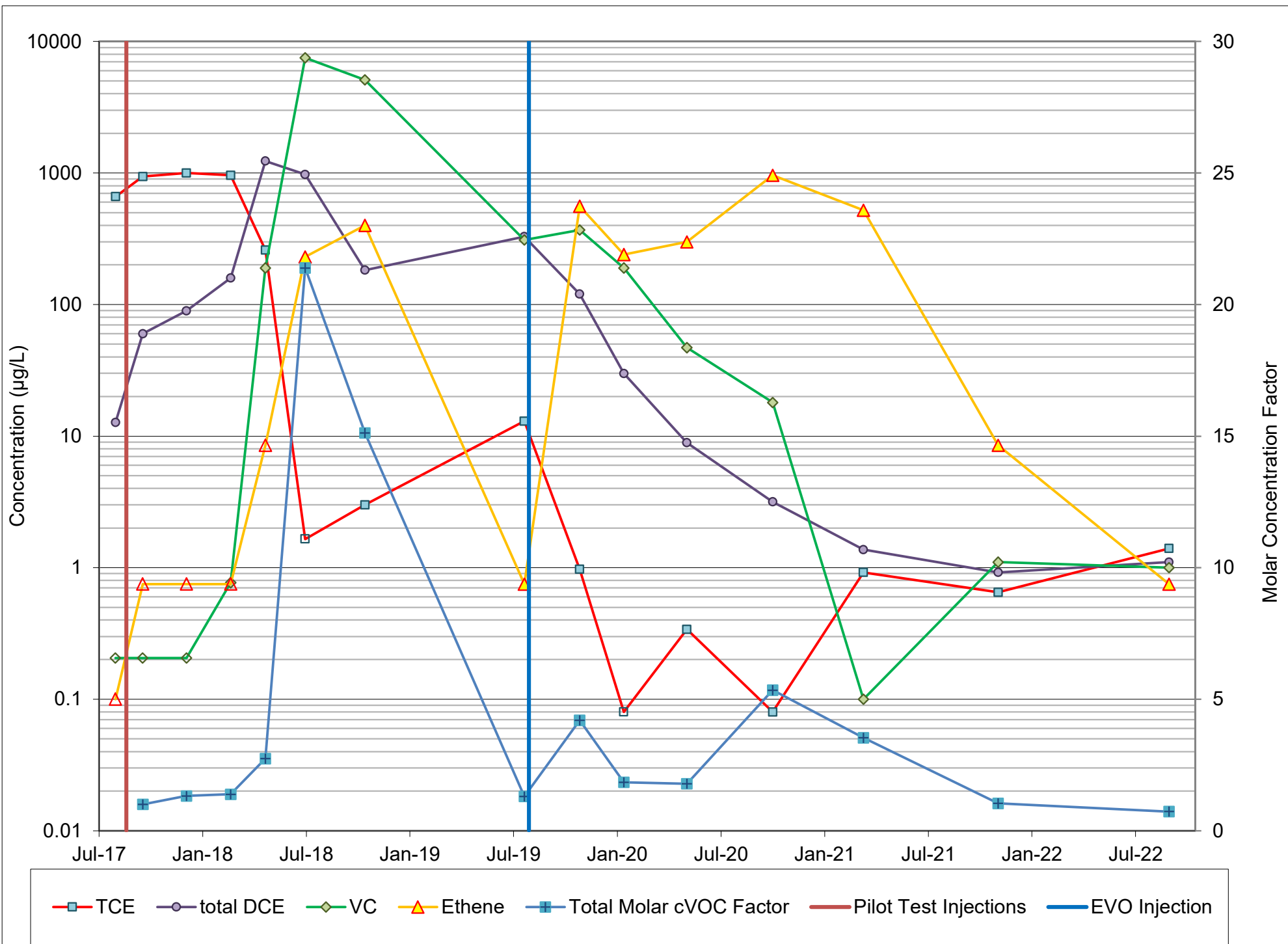


MW-10 Geochemical Parameter Concentration Trends

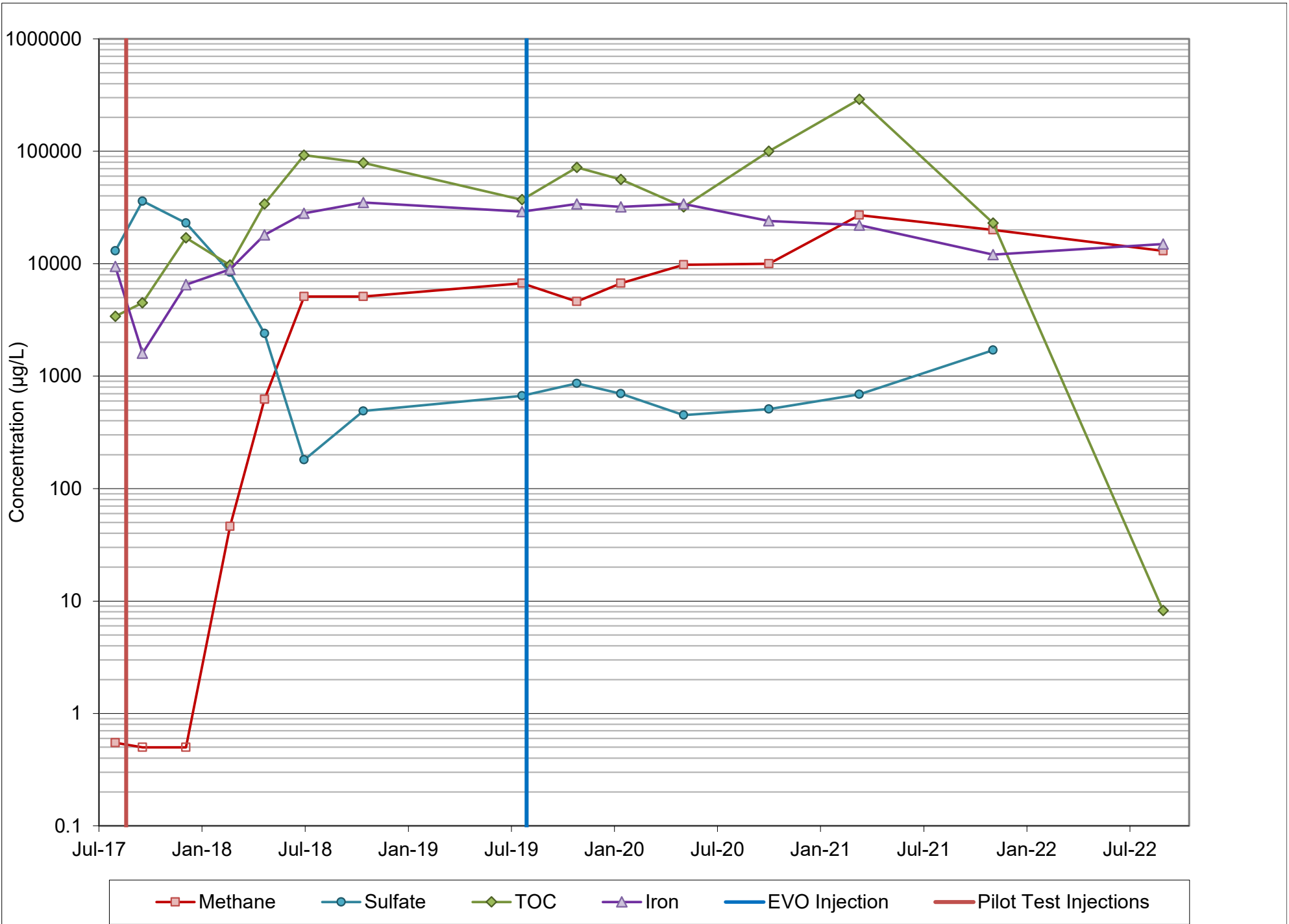




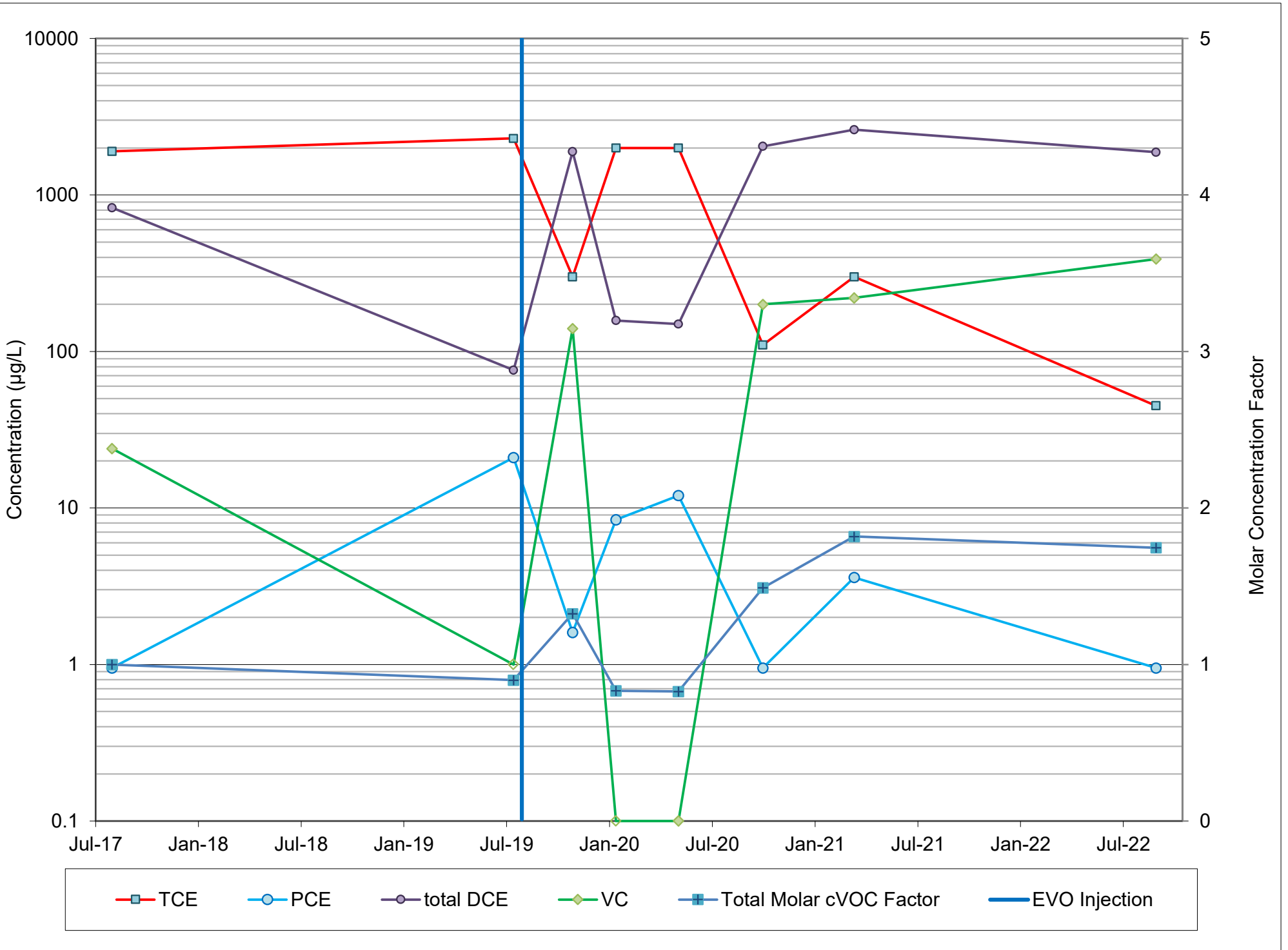
MW-21 cVOC Concentration Trends



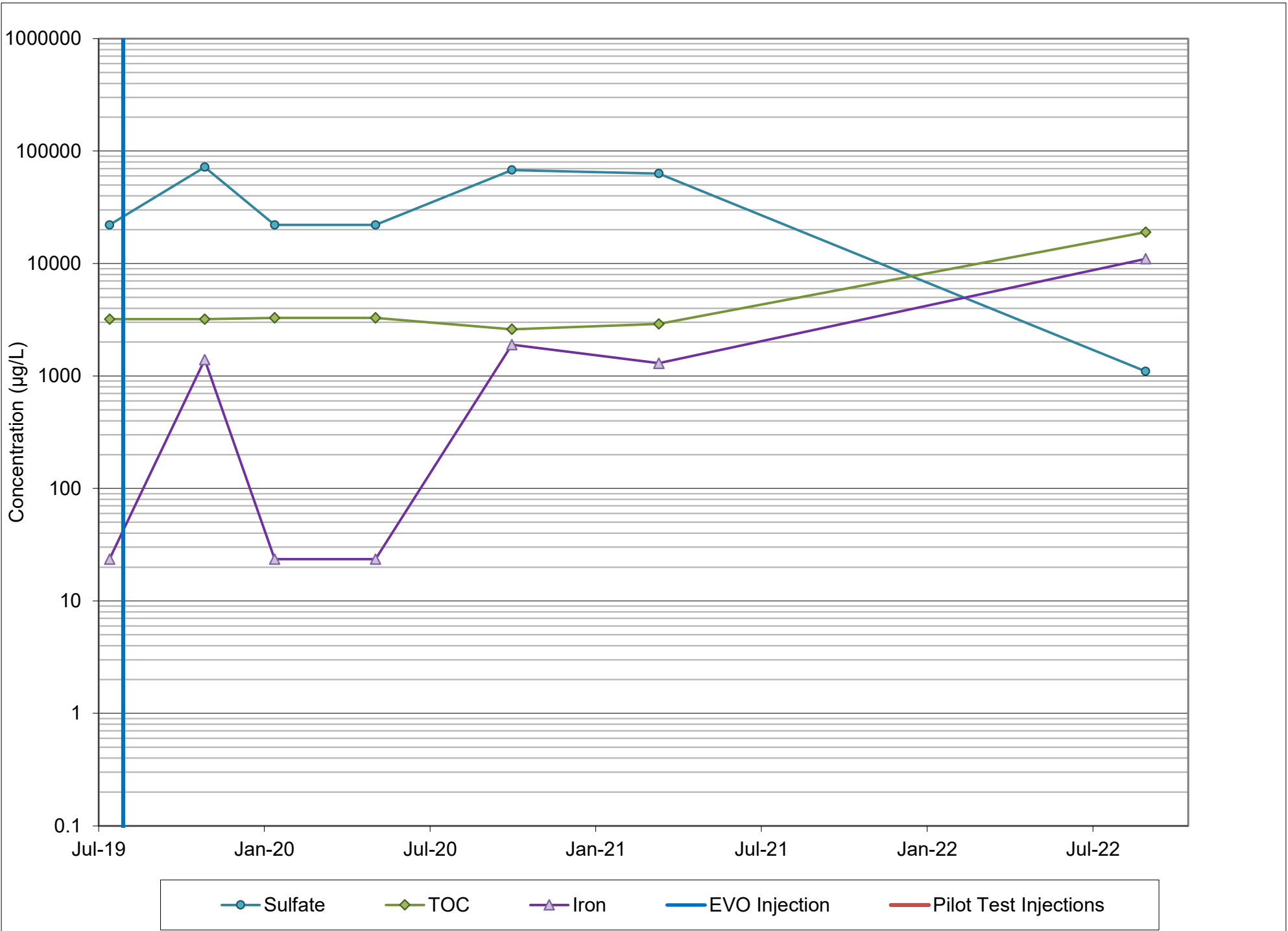
MW-21 Geochemical Parameter Concentration Trends



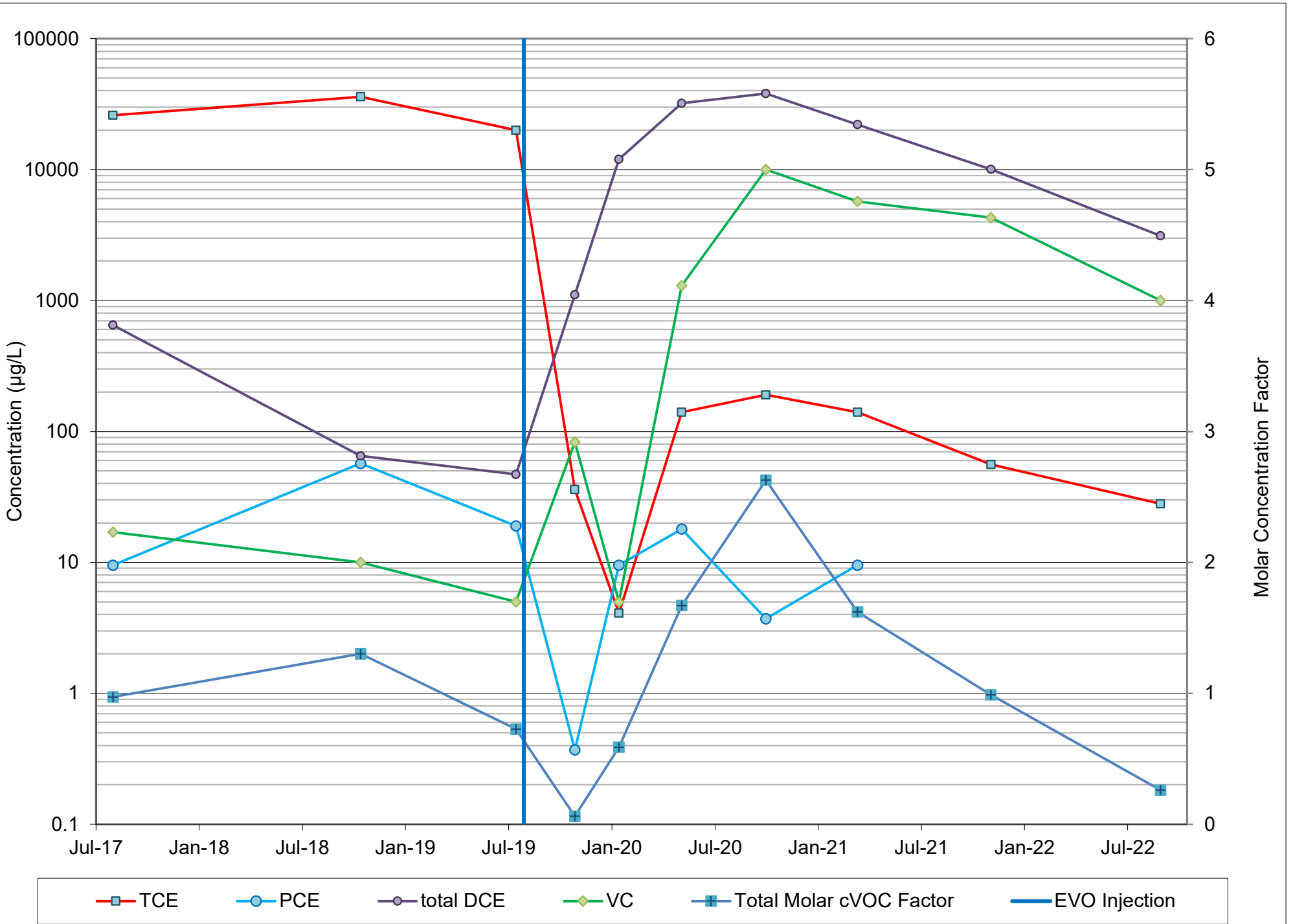
MW-24 cVOC Concentration Trends



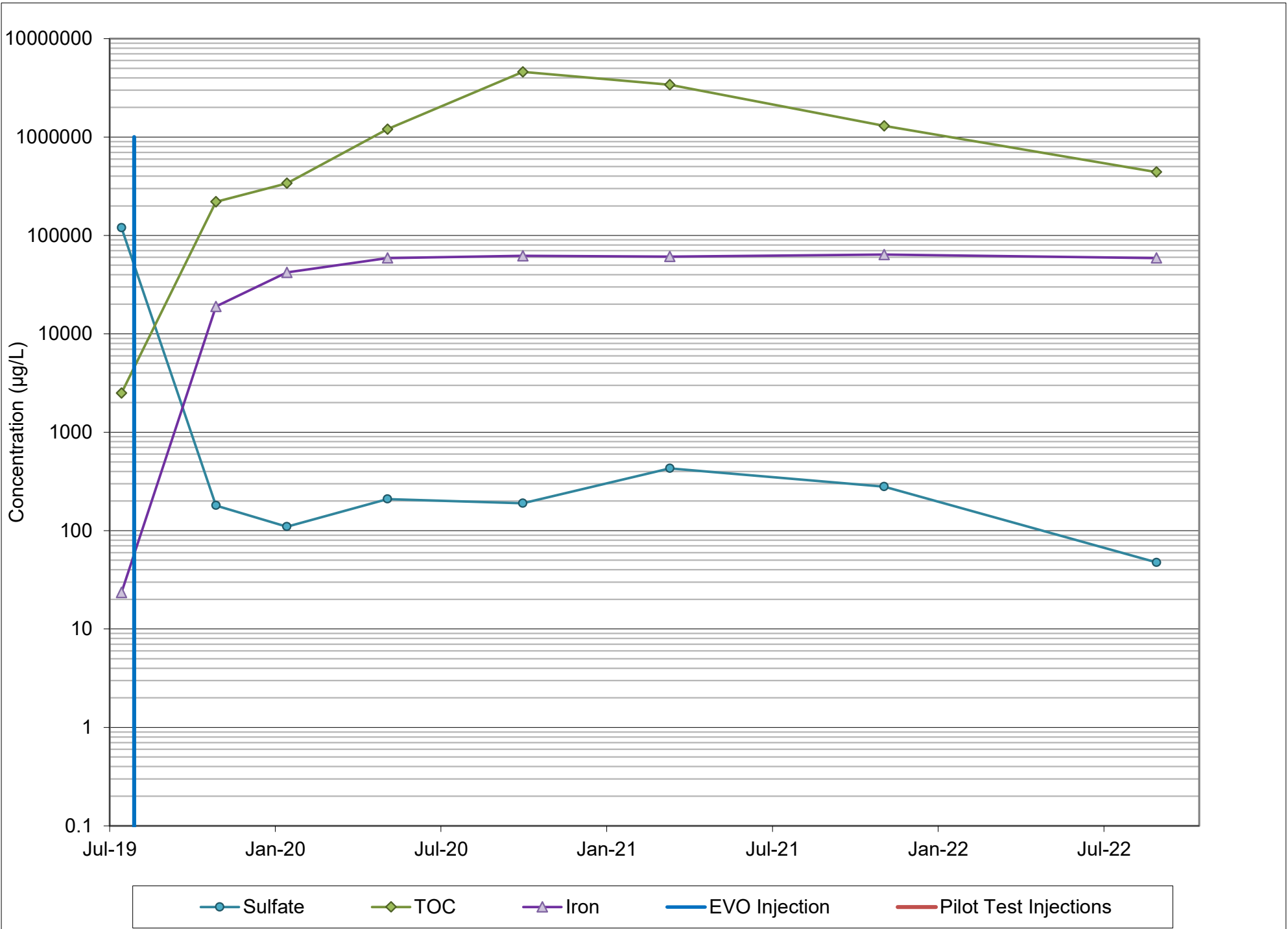
MW-24 Geochemical Parameter Concentration Trends



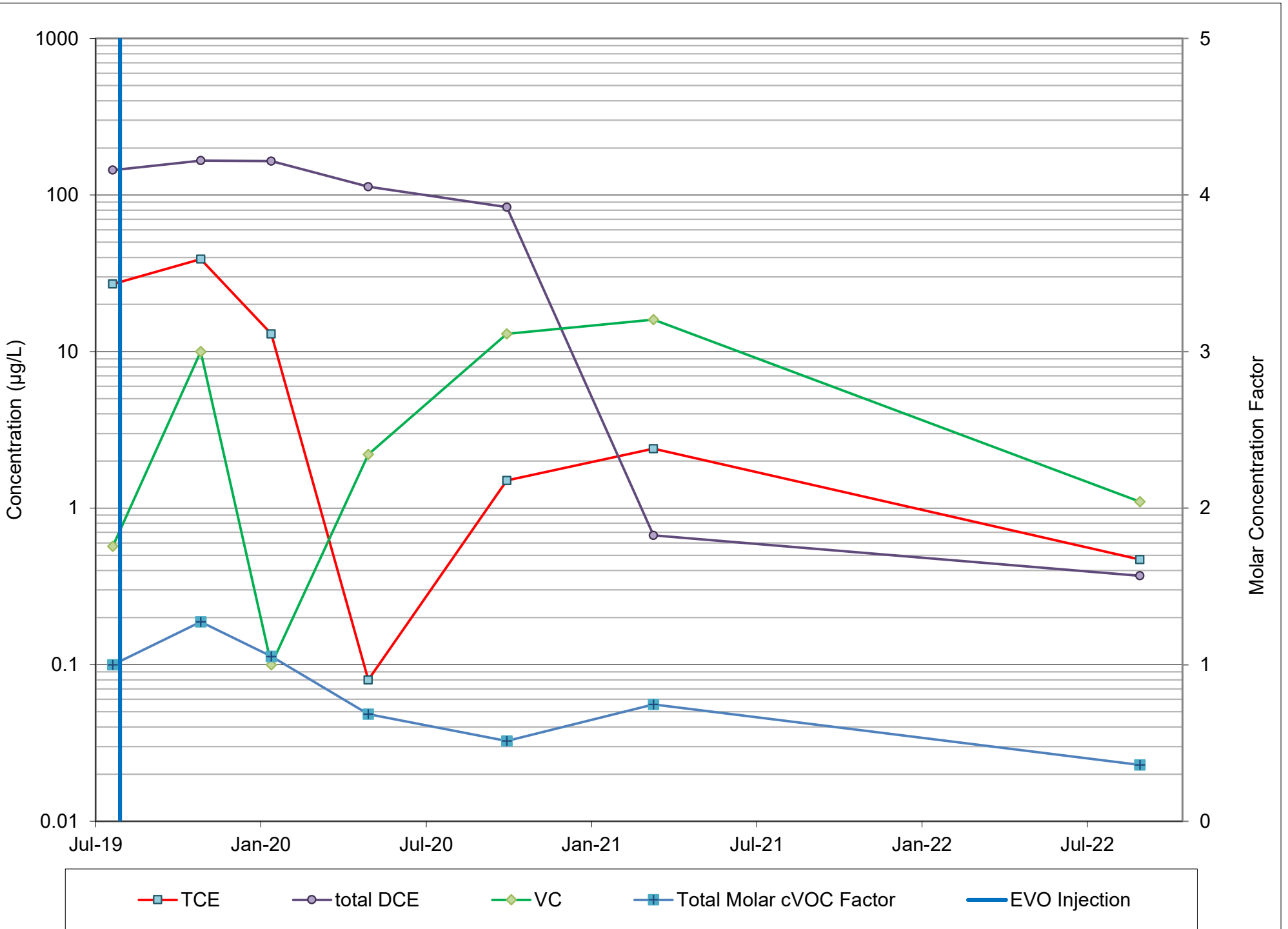
MW-25 cVOC Concentration Trends



MW-25 Geochemical Parameter Concentration Trends

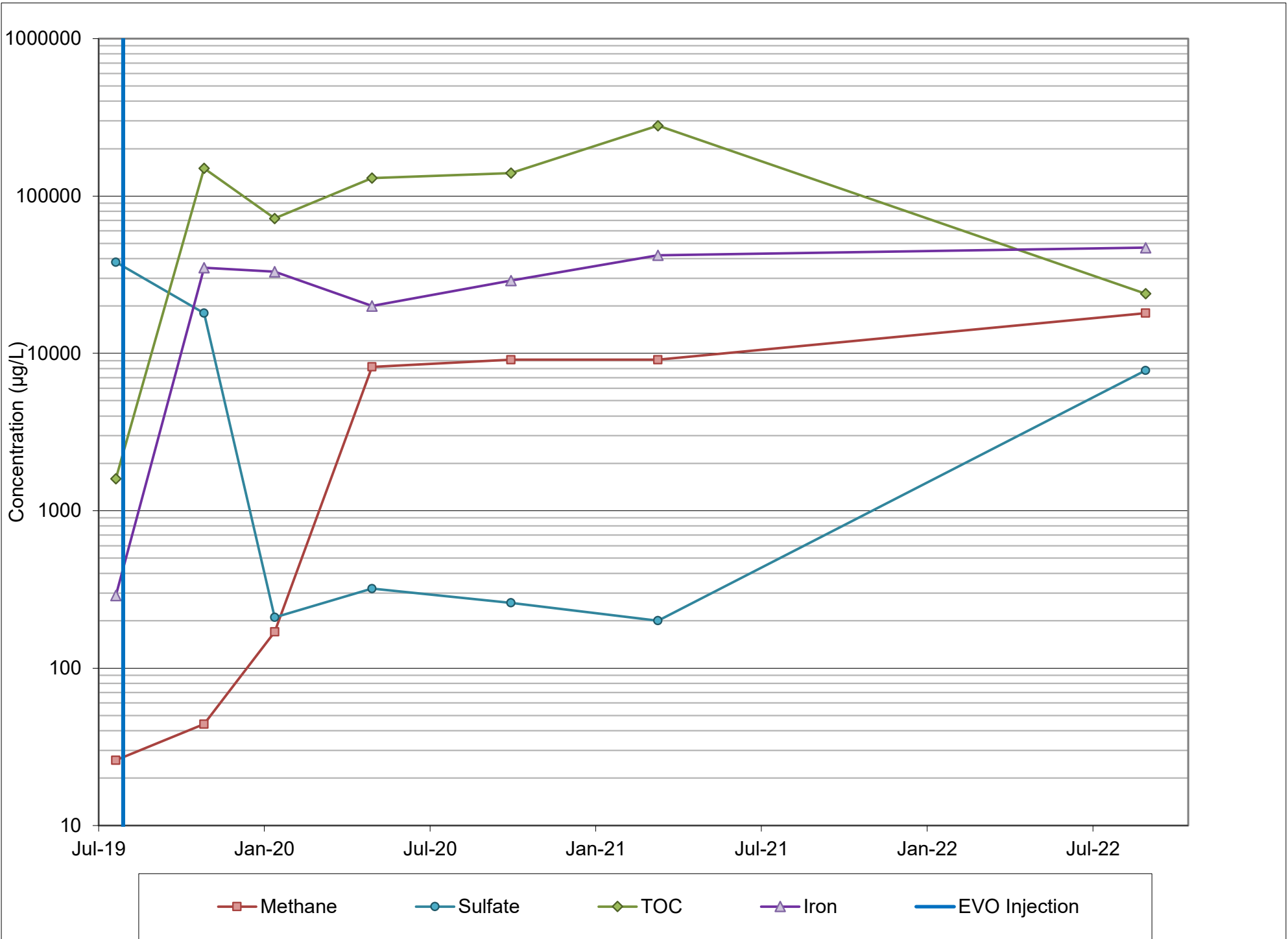


MW-26 cVOC Concentration Trends

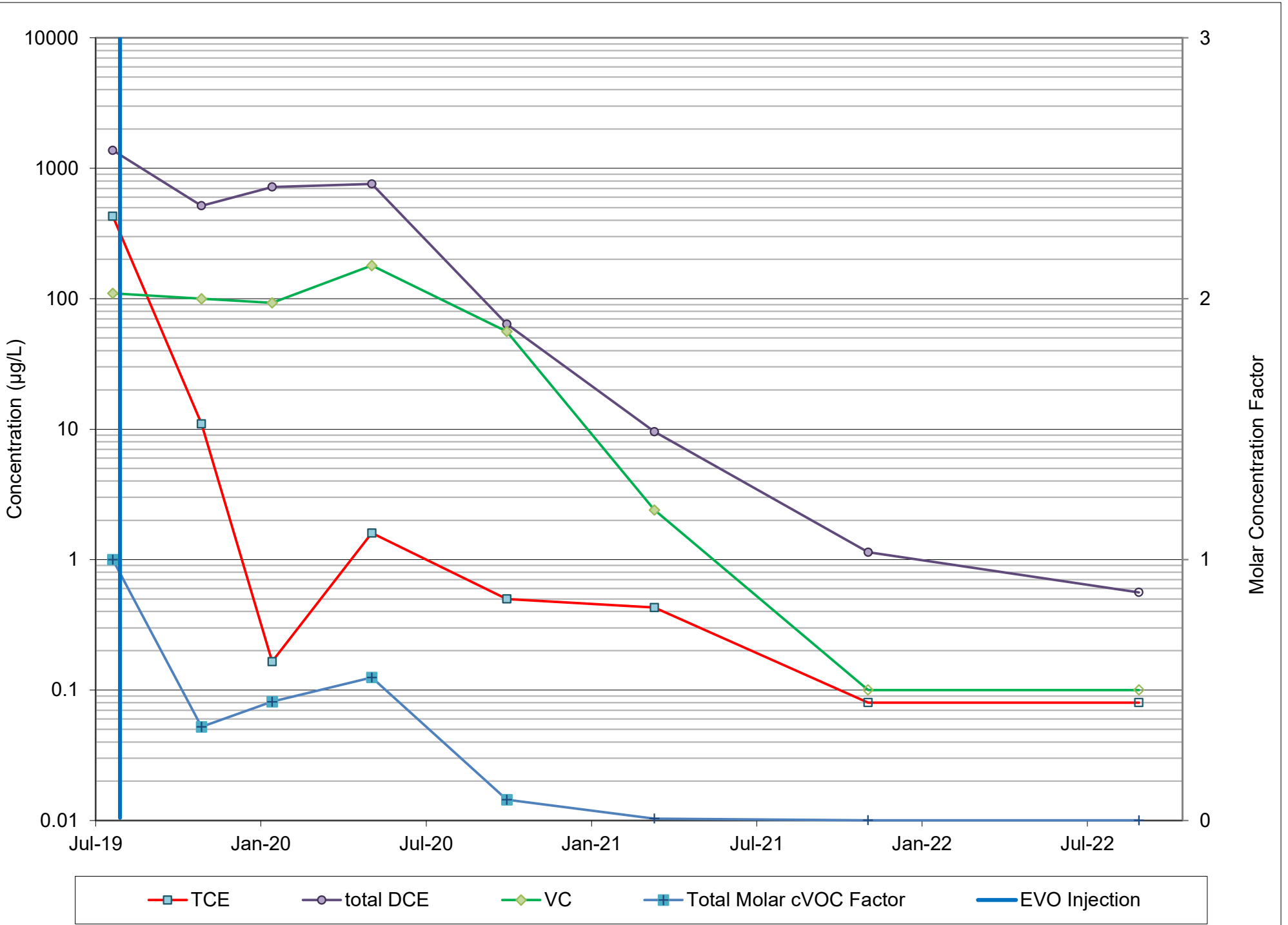




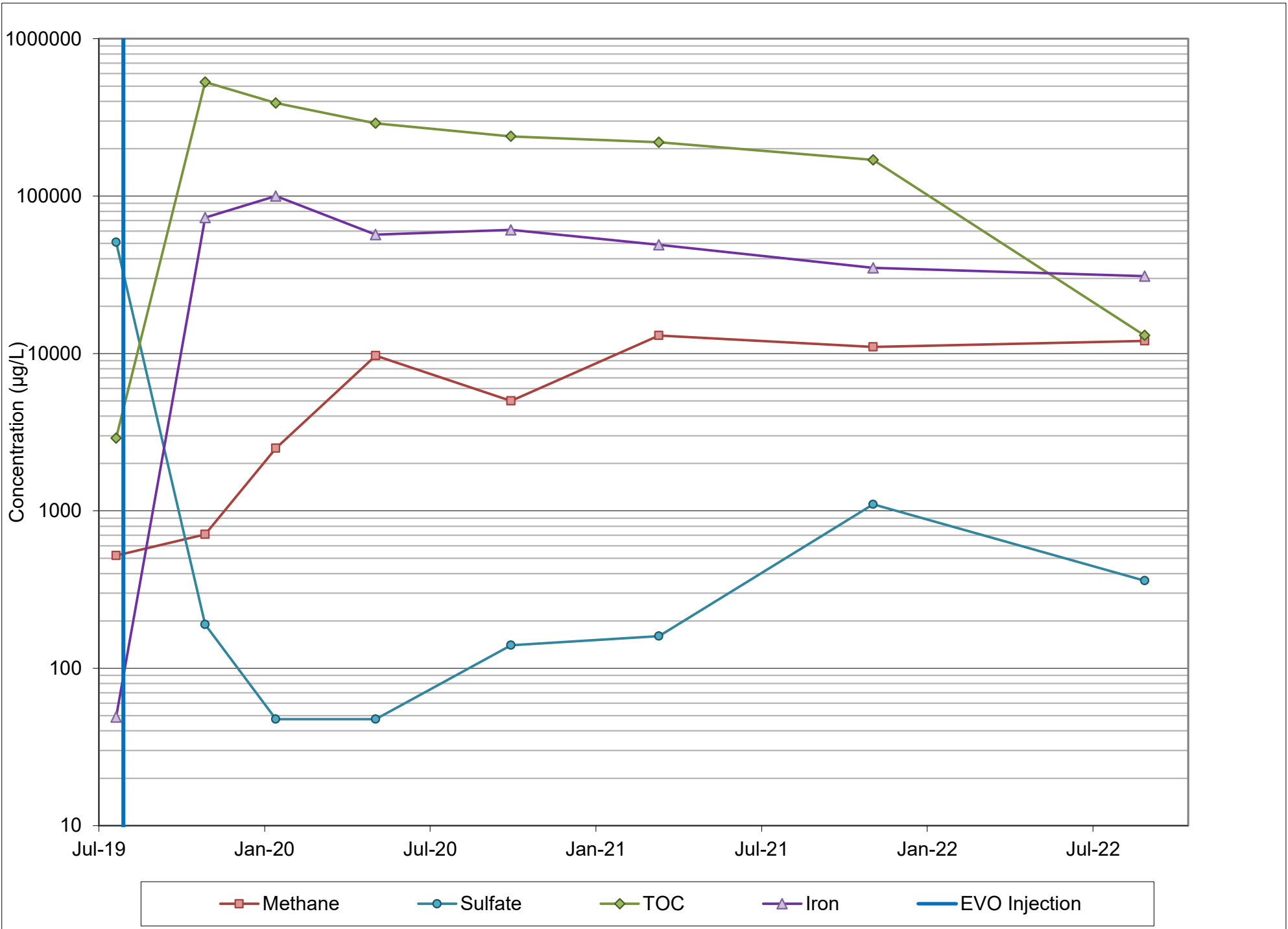
MW-26 Geochemical Parameters Concentration Trends



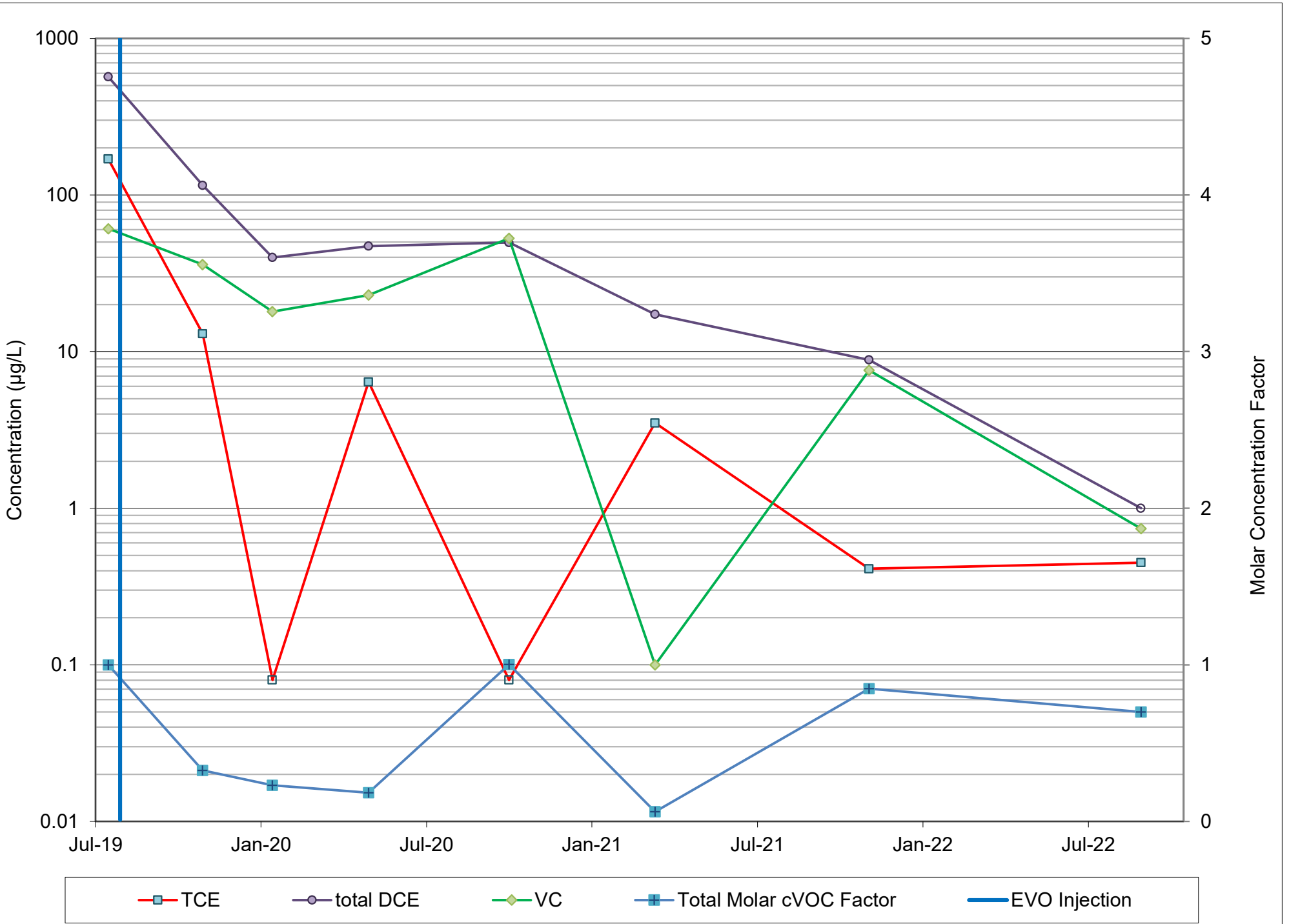
MW-27 cVOC Concentration Trends



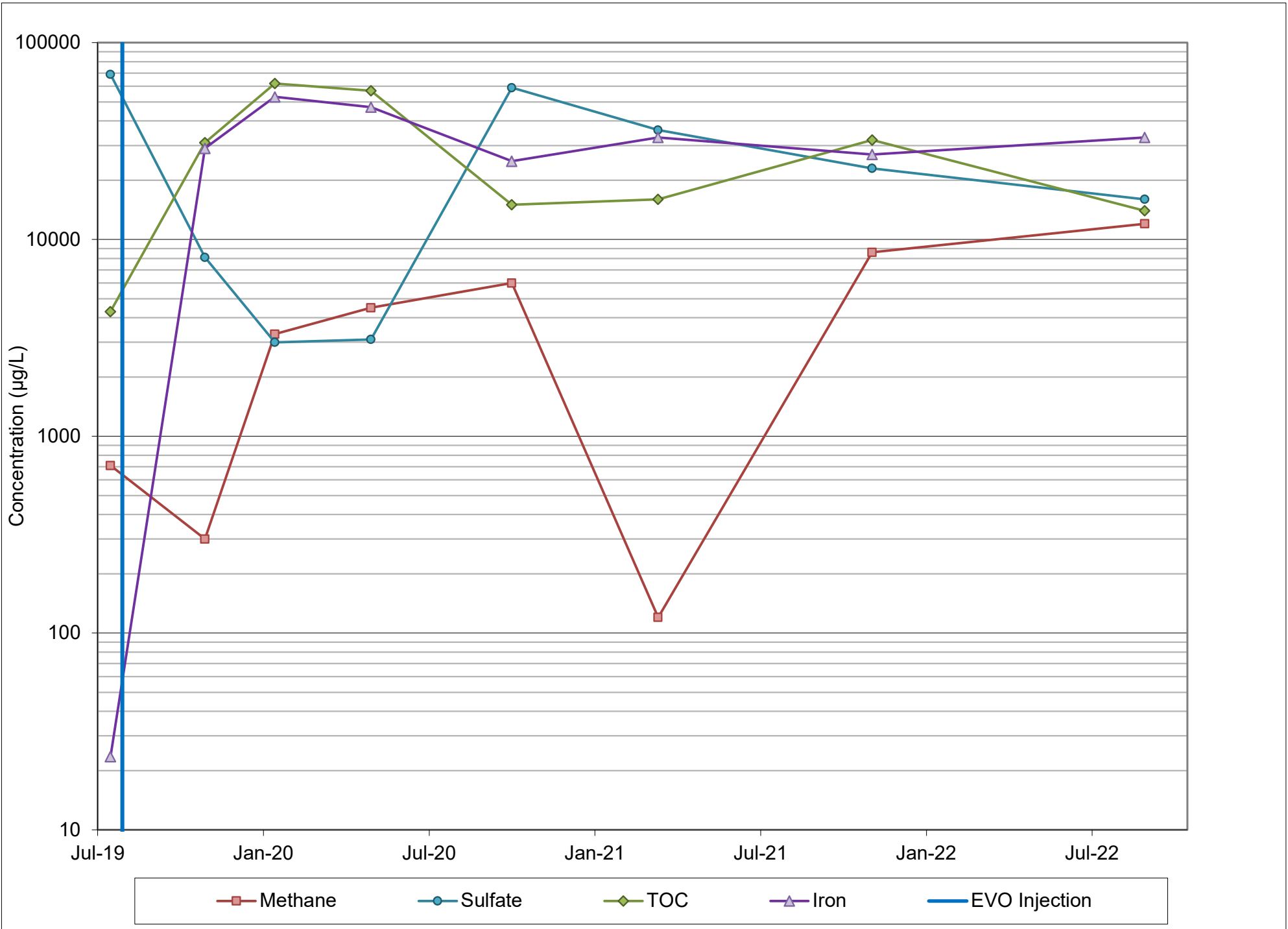
MW-27 Geochemical Parameter Concentration Trends



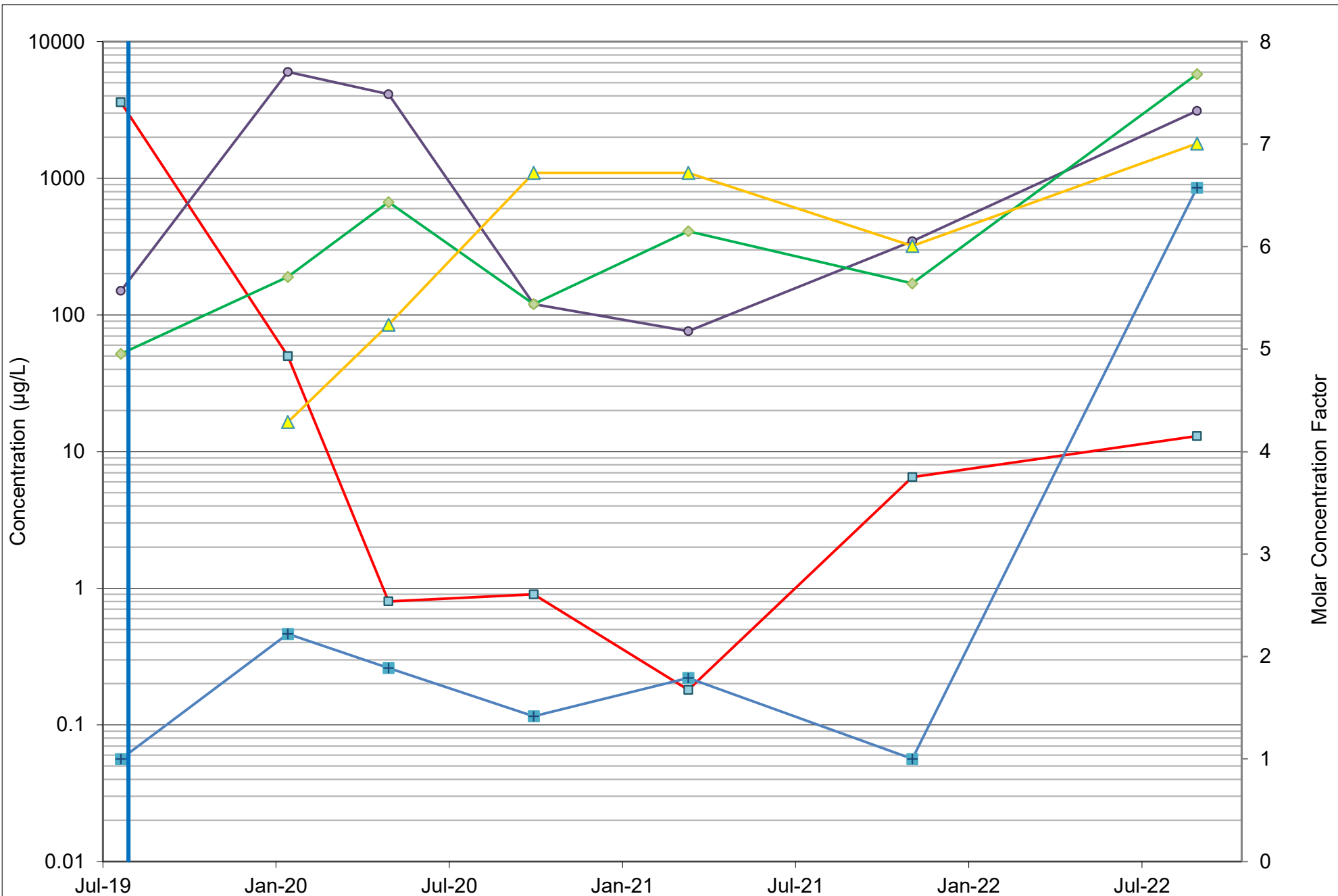
MW-28 cVOC Concentration Trends



MW-28 Geochemical Parameter Concentration Trends



MW-30 cVOC Concentration Trends



MW-30 Geochemical Parameter Concentration Trends

