Operation and Monitoring Report

June 2025 to May 2026

City of North Tonawanda

June 30, 2026 – Revised October 5, 2026

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1. Introduction

This report is the 25th annual Operation and Monitoring Report (O&M Report) for the remedial actions constructed at the Gratwick-Riverside Park Site (Site) located in North Tonawanda, New York. This report covers the period from June 2025 to May 2026 and was prepared pursuant to Section 7.0 of the report entitled "Operation and Maintenance Manual" (O&M Manual) dated November 9, 2022. All O&M activities have been performed in accordance with the methods and frequencies specified in the O&M Manual. Groundwater is monitored annually in six wells and an additional six wells are monitored once every 2 years. The surface water quality of the Niagara River adjacent to the Site is not impacted by the Site and is no longer monitored. The collected groundwater discharged from the Site during this reporting period was monitored semi-annually in accordance with the City of North Tonawanda (City) Wastewater Discharge Permit (effective March 1, 2025, revised on October 5, 2026). A copy is included in Appendix A. The wells, manholes, wet wells, and storm sewer outfalls that comprise the monitoring network are shown on Figure 2.1. The permeable soil cap at the Site and its various cover systems (grass and natural regeneration area) are shown on Figures 2.2 and 2.3.

2. Groundwater Withdrawal System (GWS)

Full-time operation of the Groundwater Withdrawal System (GWS) at the Site started on May 4, 2001. The objectives of the GWS are to:

i.) Achieve and maintain an inward gradient from the Niagara River toward the GWS.

ii.) Achieve and maintain an upward gradient from the fill alluvium layer beneath the GWS.

In order to determine whether the objectives are being met, hydraulic and chemical monitoring programs have been developed. These programs include Site groundwater and GWS effluent monitoring. The wells, manholes, wet wells, and storm sewer outfalls that comprise the monitoring network are shown on Figure 2.1. The monitoring programs are described in the following subsections.

2.1 Hydraulic Monitoring

Hydraulic monitoring consists of the collection of water levels in monitoring wells and manholes and River water levels at the storm sewer outfalls. These data used to determine the vertical and horizontal gradients for the groundwater.

The water levels in four GWS manholes and in the River were monitored to confirm that an inward gradient exists. The water levels in five GWS manholes, and in four monitoring wells installed near the GWS alignment in the materials directly overlying the confining unit, were monitored to confirm that an upward gradient exists. The specific manholes and monitoring wells used to determine the horizontal and vertical gradients are listed in Table 2.1.

Groundwater elevations are measured on a monthly basis. The groundwater elevations for the month of January 2026 were collected on February 3, 2026, due to heavy snow falls. The measured water levels for the time period June 2025 through May 2026 are provided in Table 2.2. Hydrographs for the locations monitored are presented in Appendix B. The horizontal and vertical gradients for this reporting period are provided in Tables 2.3 and 2.4, respectively. The water levels and horizontal and vertical gradients to May 2012 were previously provided, thus, are not provided in this report.

The results for the horizontal gradient evaluation show that:

– Inward horizontal gradients were achieved by May 11, 2001, within 1 week of the start of pumping the GWS.
– The inward gradients were maintained for the next 14 years (into 2015) except for a few locations in isolated areas of the GWS.

From 2015 through 2020, there had been three exceptions as follows:

– The area of River North/MH-2 (November 2015 through June 2020).
– The area of River Middle/MH-8 (March 2016 through August 2020).
– The area of River South/MH-12 (December 2019 through March 2020).

As indicated in previous O&M Reports, short periods of outward gradient (even 365 days) do not adversely affect the effectiveness of the remedy because:

– The outward gradients occurred over only a portion of the barrier wall.
– The 36-inch barrier wall is 6 inches thicker than the design thickness thereby providing extra protection.
– Any outward migration of Site groundwater into the barrier wall during the periods of outward gradient is more than offset by the inward migration of river water into the barrier wall during the long periods of inward gradient.
– Since 2015, the groundwater level on the upgradient side of the barrier wall was never higher than the elevation of the top of the barrier wall (i.e., 568.5 ft amsl) except in the immediate vicinity of MH-2 in April 2018, April through June 2019, and from December 2019 through May 2020; at MH-14 from July through August 2016, May 2019, and January through March 2020; and at MH-16 from January through May 2020 and July 2021, when water levels during these months ranged between 568.52 to 568.90 ft amsl. However, the water elevation decreased in MH-2 below the top elevation of the barrier wall to 566.9 ft amsl or lower following cleaning of this section of collection pipe on June 18, 2020. Thus, no significant overtopping occurred except for short sections of the barrier wall.

As outward gradients had in some places persisted for several years, investigations were conducted in 2020 into the causes and potential remedies of high-water levels present in the inward wells. As a result, between June and December 2020, cleaning of the GWS collection pipe and forcemain was performed. Further details are provided in the 2021 O&M Report. These activities were successful in restoring inward gradients at all locations; River North/MH-2 as of July 2020, River Middle/MH-8 as of September 2020, and River South/MH-12 as of May 2020.

From 2022 through the June 2024 - May 2025 reporting period, horizontal gradients were continually inward for all four monitoring locations, with the exception of the following:

– River South/MH-12 in March 2022 and March 2023.
– River North/MH2 in July 2022.
– River Middle/MH8 in March through June 2023 and February through May 2024.
– River Middle/MH8 in June 2024, July 2024, and September 2024.

Inward gradients were observed at all four monitoring locations after September 2024 through the end of the June 2024 – May 2025 reporting period due to additional forcemain cleaning activities conducted in October 2024 as described in the Operation and Monitoring Report – June 2024 to May 2025 (2025 PRR)

The results for the horizontal gradient evaluation during this reporting period (June 2025 through May 2026) showed that the horizontal gradients were continually inward for all four monitoring locations, with the exception of the following:

– River Middle/MH8 in March through May 2026.
– River South/MH12 in March through May 2026.

Outward gradients were observed at these two locations from March through May 2026 due to the malfunctioning and replacement of a pump at manhole MH9 (Pump Station #2), which is further discussed in Section 2.4.

Horizontal gradients could not be calculated on February 3, 2026 at locations River Middle/MH8, as MH8 was buried with snow and not accessible.

During the monthly groundwater elevation monitoring activities, it was observed that five monitoring wells had groundwater elevations that were above the elevation of the barrier wall (568.5 ft amsl) in April 2026: MW-7, MW-8, MW-9, MH-14, and MH-16. In May 2026, the groundwater elevations at MW-7, MW-8, and MH-14 had fallen below the elevation of the barrier wall, however the groundwater elevations at MW-9 and MH-16 remained above the barrier wall. No further action is needed at this time, as none of the monitoring well elevations were higher than the barrier wall elevation for the June – August 2026 groundwater monitoring events (after the 2025-2026 reporting period).

The results for the vertical gradient evaluation show that vertical gradients had been continuously upward for all four monitoring locations from 2016 through the June 2024 through May 2025 reporting period. The results for the vertical gradient evaluation during the current reporting period (June 2025 through May 2026) showed that the vertical gradients were upward for all four monitoring locations, except for MW-8/MH 11 in December 2025, where the gradient was downward by 0.06 feet. The reason for the downward gradient at MW-8/MH-11 in December 2025 was not known, however upward gradients have been observed at that location from March 2026 through August 2026 (after the 2025-2026 reporting period).

Vertical gradients could not be calculated on February 3, 2026 at locations MH8/MW-7, MH11/MW-8, and MH14-MH15/MW-9, as MH8, MH11, and MH14 were buried with snow and not accessible. Vertical gradients could not be calculated on February 26, 2026 at locations MH11/MW-8, and MH14-MH-15/MW-9, as MH11 and MH14 were buried with snow and not accessible.

2.2 Groundwater Quality Monitoring

Groundwater quality monitoring consists of the collection of water samples from on-Site overburden monitoring wells (OGC-1 through OGC-8 and MW-6 through MW-9) and the analysis of these samples to determine the concentrations of chemicals in the groundwater. The purpose of the groundwater quality monitoring program is to monitor the anticipated improvement in the quality of the overburden groundwater:

– Between the barrier wall and the River (OGC-1 through OGC-8).
– In the fill/alluvium beneath the GWS (MW-6 through MW-9).

The monitoring wells designated as MWs are located on the inside of the barrier wall, and monitoring wells designated OGCs are located between the barrier wall and the river.

Groundwater quality monitoring locations are presented on Figure 2.1, and the analytical parameters and frequency are listed in Table 2.5.

As approved by the NYSDEC on October 9, 2018, the current sampling frequency from May 2019 to present was:

Annual	Once Every 2 Years (Even Years)
MW-6	MW-7
MW-8	OGC-1
MW-9	OGC-2
OGC-3	OGC-4
OGC-6	OGC-5
OGC-7	OGC-8

For the June 2025 through May 2026 reporting period, groundwater samples were collected from both the annual and biennial (every 2 years) monitoring wells.

2.2.1 Sample Results

A summary of compounds detected in the groundwater samples for this reporting period is provided in Table 2.6.

Purge logs for the sampling event are presented in Appendix C. Purge water was disposed in the GWS. The purge logs in Appendix C show that four monitoring wells exhibited elevated turbidity doing purging activities. These wells included MW-7, OGC-1, OC-2 and OGC-5 (with OGC-5 going dry during purging). These wells are sampled every 2 years, and will be sampled again in 2028. Laboratory analytical reports are presented in Appendix D. The QA/QC Review/ Data Usability Summary of the April 2026 groundwater results are included in Appendix E. The electronic deliverables were provided to the NYSDEC by email on June 22, 2026 with receipt of successful upload received the same day. The samples were collected on April 30 and May 1, 2026. Groundwater concentrations are compared to Class GA Groundwater Standards in Table 2.6.

To evaluate the trends in the groundwater chemistry and evaluate the appropriate frequency of future sampling, the Volatile Organic Compounds (VOCs) and SVOCs were summed and plotted on Figures 2.4 through 2.15 for each of the 12 monitoring wells included in the program. It is believed that the sum of the VOCs (i.e., TVOCs) and SVOCs (i.e., TSVOCs) best represent the trends in the groundwater chemistry.

Review of the TVOC and TSVOC concentrations for the 12 wells sampled in 2026 show the following trends:

– TVOCs:
  - Less than Class GA standards in 8 of the 12 wells sampled.
  - Relative constant or decreasing concentrations in the 12 wells sampled, except for slight increases at MW-8 and OGC-5.
– TSVOCs:
  - Less than Class GA standards in 8 of the 12 wells sampled.
  - Relatively constant concentrations with random fluctuations in the 12 wells sampled except for a decrease in MW-9 and increases in OGC-3, MW-8, and MW-9 as discussed below.

In general, the number of wells with no individual compound concentrations above Class GA standards and decreasing or constant but fluctuating low level concentrations, shows that the groundwater is being remediated.

Additional description of the TVOC and TSVOC concentrations is provided in the following paragraphs.

Monitoring Wells between Barrier Wall and River

The TVOC concentrations for OGC-1 on Figure 2.8 show that the concentrations since November 2003 ranged between non-detect and 7.4 μg/L. The TSVOC concentrations since November 2003 have fluctuated between non-detect and 3 μg/L. No individual parameters were detected in the 2026 sampling event.

The TVOC concentrations for OGC-2 on Figure 2.9 increased to 5.3 µg/L in the 2026 sampling event (after having been non-detect since May 2006) due to a detection of acetone in the 2026 sampling event. The TSVOC concentrations have all been non-detect since monitoring of the remedy started except for the 2014 sample, which had a TSVOC concentration of 0.79 µg/L. No individual parameters were detected with the in the 2026 sampling event except for the acetone concentration noted above, which is below the Class GA standard.

The TVOC concentrations for OGC-3, shown on Figure 2.10, were less than 11 μg/L between 2009 and 2017 except for 2014, which had a concentration of 85.1 μg/L. The 2018 sample result was 23.5 μg/L, and the concentration had since decreased to 0.73 μg/L in 2024. The TVOC concentration in 2026 was 3.8 μg/L, after a 2025 TVOC concentration of 1.85 μg/L. The TSVOC concentrations had decreased from 300 μg/L in November 2003 to 29.8 μg/L in 2024. The TSVOC concentration in 2026 was 62.4 μg/L, after a 2025 TSVOC concentration of 50.2 μg/L No parameters were detected above Class GA standards except for phenol, but the concentration has been generally decreasing over time.

The TVOC concentrations for OGC-4, shown on Figure 2.11, fluctuated between non-detect and 6 μg/L for the time period from November 2002 to 2010 and were non-detect through 2026 except for the 2016 sample (3.6 μg/L). The TSVOC concentrations have fluctuated widely but have continually decreased since May 2004 with non-detect concentrations since 2018. The single compound responsible for the higher historic concentrations was phenol. No individual parameters with were detected in the 2026 sampling event.

The TVOC concentrations for OGC-5, shown on Figure 2.12, ranged from non-detect to 5 μg/L since November 2003 (except for 2008 at 5.6 μg/L and 2018 at 9.1 μg/L). The TVOC concentration for OGC-5 exhibited an increase to 29.72 μg/L in 2026 sampling event, mostly due to an acetone detection of 29 μg/L The TSVOC concentrations ranged from non-detect to 2.3 μg/L since February 2003. The TSVOC concentration for OGC-5 was 0.62 μg/L in the 2026 sampling event. No individual parameters with concentrations greater than Class GA standards were detected in the 2026 sampling event.

The TVOC concentrations for OGC-6, shown on Figure 2.13, have continually decreased from 1,655 μg/L in the 2013 sample to 28.13 μg/L in the 2026 sample. The TSVOC concentrations decreased from 157 μg/L in 2008 to 3.3 μg/L in the 2022 sample but increased to 1,679.3 μg/L in 2023 and decreased to 0.71 μg/L in 2024, 3.33 μg/L in 2025, and 2.26 μg/L in 2026. The increase in 2023 was primarily due to a phenol concentration on 1,500 μg/L. The reason for this increase is unknown. Data from the 2024 through 2026 sampling events indicates that this increase was an anomaly.

The TVOC concentrations for OGC-7, shown on Figure 2.14, have decreased from 90 μg/L in May 2004 to 7.54 μg/L in 2025 before exhibiting a slight increase to 9.3 μg/L in 2026. The TSVOC concentrations have been less than 2 μg/L since May 2002 (results have been non-detect since 2021).

The TVOC concentrations for OGC-8, shown on Figure 2.15, decreased from 461 μg/L in May 2001 to 28.8 μg/L in May 2004 and have ranged from non-detect to less than 30 μg/L since that time. The TVOC concentration decreased in 2026 to 6.95 μg/L. The TSVOC concentrations decreased from 139 μg/L in August 2001 to 25 μg/L in May 2003 and have remained below that concentration since that time with a slight increase in 2020 to 36.3 μg/L. The TSVOC concentration decreased in 2026 to 18.2 μg/L. No individual parameters with concentrations greater than Class GA standards were detected in the 2026 sampling event

Monitoring Wells On Site - Inside Barrier Wall

The TVOC concentrations for MW-6, shown on Figure 2.4, had been less than 5 μg/L since 2007, but had increased in subsequent years, rising to 93.3 μg/L in 2019 and further to 104 μg/L in 2020. TVOC concentrations were less than 5 μg/L since 2021, except for 2023 (60.8 μg/L). TVOC concentrations returned to less than 5 μg/L in 2024 (4.13 μg/L) and 2025 (3.85 μg/L). No VOCs were detected in the 2026 sample. The TSVOC concentrations, previously low level, had increased to 2,488 μg/L in 2018 and further to 5,206 μg/L in 2020, but have since decreased. The TSVOC concentration in 2023 was 712.7 μg/L, an increase from 2021 and 2022 but still below the TSVOC concentrations in 2018 to 2020. The TSVOC concentration in 2024 was 14.21 μg/L, a decrease from 2023. The TSVOC concentrations decreased from 18.95 μg/L in 2025 to 4.7 μg/L in 2026.

The TVOC and TSVOC concentrations for MW-7 on Figure 2.5 show that both TVOC and TSVOC have remained low level. TVOC concentrations ranged from non-detect to 4 μg/L since May 2006. TSVOC concentrations ranged from non-detect to 6 μg/L since May 2004. No parameters were detected in 2026.

The TVOC concentrations for MW-8 on Figure 2.6 show that the TVOC concentrations had decreased from 142.3 μg/L in 2009 to 18.9 μg/L in 2025, before exhibiting an increase to 46.2 μg/L in 2026. The TSVOC concentrations since 2011 have generally been in the 70 to 100 μg/L range, except for 2021 (121.4 μg/L). The TSVOC concentration at MW-8 exhibited a slight increase from 100.3 μg/L in 2025 to 118.9 μg/L in 2026. No parameters were detected above Class GA standards in OGC-3 outside the barrier wall directly downgradient from MW-8 except for phenol.

The TVOC concentrations for MW-9 on Figure 2.7 show that the TVOC concentrations have generally ranged between approximately 9 and 38 μg/L. The TVOC concentration at MW-9 decreased in 2026, with a TVOC concentration of 8.8 μg/L as compared to 19.54/18.31 μg/L in 2025 The TSVOC concentration at MW-9 increased to 160.55 μg/L in 2026 after exhibiting decreases from 2019 to 2025.

All MWs are located on the inside of the barrier wall, and a net inward gradient has been consistently maintained in the vicinity of these wells except for the 2015/2020 time period and more recently in March and July 2022, in March to June 2023, in February to July 2024, and September 2024, and from March to May 2026, as previously described. In addition, the analytical data for the OGCs outside the barrier wall directly downgradient of the MWs in general do not indicate migration through the barrier wall, thus, the TVOCs and TSVOCs are not migrating to the Niagara River.

2.2.2 pH Data Evaluation

A discussion of pH monitoring data has been included in the annual reports since 2023. As stated in the NYSDEC PRR Response Letter dated September 3, 2024, the NYSDEC approved a request to cease monthly pH monitoring and solely collect pH levels during the annual groundwater monitoring event. As such, monthly pH monitoring was discontinued in July 2024, and pH readings were collected from the 12 monitoring wells that were sampled as part of the 2026 annual groundwater quality monitoring event. The pH data for the current reporting period are presented in Table 2.7. Graphs showing pH versus time for each of the 12 monitoring wells that are part of the groundwater monitoring program are presented in Appendix F.

As indicated in the graphs Appendix F, the pH generally fluctuates by one to two orders of magnitude depending on the location. General pH trends over time are summarized below.

MW-6 - typically between 9 and 11, but has been over 11 for the past two readings (2025 and 2026)

MW-7 - typically between 9 and 11, but was below 9 in 2026

MW-8 - typically between 11 and 12 with some fluctuations above and below, with a reading of 12.01 in 2026

MW-9 - typically between 11 and 12 with some fluctuations above and below

OGC-1 - typically between 8 and 10

OGC-2 - typically between 9 and 11, with a drop to 6.59 in July 2024 before increasing to 8.55 in 2026

OGC-3 - typically around 12 with some fluctuations above and below, with a pH result of 12.05 in 2026

OGC-4 - typically between 10 and 12 with some fluctuations above and below

OGC-5 - typically between 8 and 10 with some fluctuations above and below, with a reading of 7.71 in 2026

OGC-6 - typically between 9 and 11

OGC-7 - typically between 10 and 12 with some fluctuations above and below

OGC-8 - typically between 10 and 12 with some fluctuations above and below

The graphs indicate the following:

– The pH generally fluctuates by one to two orders of magnitude depending on the location.
– There are no significant trends except some apparent increasing trends MW-7, OGC-1, OGC-5, and OGC-8 and recent decreasing trends at OGC-2, OGC-3, and OGC-6.

Given the range in pH varies at a location by one to two orders of magnitude at a given location, a geometric mean pH value for the current reporting period was calculated and presented in in previous PRRs. Since pH is now measured on an annual basis during the annual sampling event, the calculation of geometric mean pH values was not conducted as part of the June 2025 through May 2026 reporting period. The pH value for each location based on pH ranges of between 8 and less than 9, between 9 and less than 10, between 10 and less than 11, between 11 and 12, and between 12 and 13 are presented on Figure F.13 in Appendix F. Figure F.13 shows the following:

– Locations with a pH less than 10 were typically located in the upstream area of the GWS (between OGC-1 and OGC-2), except for OGC-6.
– Locations with pH greater than 10 were located in the downstream areas of the GWS, where six locations (OGC-3, OGC-4, OGC-7, OGC-8, MW-8, and MW-9) had a pH above 11.

2.3 Effluent Monitoring Program

Groundwater from the GWS is discharged to the POTW without the need for pretreatment. The monitoring performed during the construction phase of the remedy clearly showed that the minimal chemical presence in the groundwater collected in the GWS is easily treated at the POTW; therefore, no on-Site pretreatment is necessary. The effluent samples are collected at the monitoring station (meter building), which is located at the south end of the Site as shown on Figure 2.1. The analytical parameters monitored are listed in Table 2.8.

During the June 2025 through May 2026 reporting period, the City of NT only collected one effluent sample, on October 23, 2025. An attempt was made to collect a spring sample in May 2026; however, there was not enough flow at the monitoring station to collect a sample. The lack of flow in May 2026 is further discussed in Section 2.4. The City collected a second semi-annual sample in June 2026, which is outside this reporting period.

The individual parameters 2-methylphenol and 4-methylphenol were not analysed for in the October 2025 sample. The City will coordinate with the laboratory providing the analysis to ensure that those parameters are analysed for during future sampling events.

2.3.1 Sample Results

Effluent samples are collected semi-annually and consist of 24-hour composite and grab samples collected and analyzed for VOCs, SVOCs, metals, and wet chemistry parameters.

Laboratory analytical reports are presented in Appendix D. The QA/QC reviews of the discharge results from October 2025 are provided in Appendix E. The Data Verification Reports for the discharge samples only provide data validation for the laboratory reports themselves. The North Tonawanda Wastewater Treatment Plant Data is not assessed by the validation memos in Appendix E.

The effluent sample results for this reporting period are provided in Table 2.9. To assist in evaluating the chemical concentration trends in the effluent discharge from the GWS, the measured concentrations for the following parameters are plotted: TVOCs, TSVOCs, pH, total suspended solids (TSS), and biochemical oxygen demand (BOD) (see Figures 2.16 through 2.20). It is believed that these parameters are representative of the trends in the chemistry of the water discharged to the POTW, as such, can also be used to determine an appropriate monitoring frequency for the effluent.

As shown on Figure 2.16, the TVOCs generally peak in the spring and then decline reaching a trough in the fall. This pattern may be attributable to additional flushing during the spring snow melt. The long-term trend of the TVOC concentrations shows an overall decrease with time from a peak concentration of 760 μg/L in April 2002 to 43.4 μg/L in October 2025. The effluent TSVOC results on Figure 2.16 show no apparent seasonal pattern. The TSVOC concentrations decreased with time until March 2011 (non-detect) and then showed increases in April 2015 (89 μg/L) and May 2017 (150 μg/L).

The TSVOC concentrations in April 2021, May 2022, November 2022, November 2023, and December 2024 were 20.8 μg/L, 22 μg/L,18.6 μg/L, 5.5 μg/L, and 38.64 μg/L, respectively, but in October 2021, April 2023, and April 2024 were non-detect. The TSVOC concentration in December 2024 and April 2025 showed an increase to 38.64 μg/L and 45.31 μg/L, respectively, and then decreased to 16.81 μg/L in October 2025.

The pH levels are presented on Figure 2.17. As shown on Figure 2.17, the pH levels range between 7.3 and 11.6. An apparent trend in the pH levels is higher pH levels in the winter/spring and lower pH levels in the summer/fall. Table 2.9 provides pH results from both a grab and a composite sample collected in October 2025.

The TSS concentrations presented on Figure 2.18 are generally low level (i.e., <20 mg/L) and show higher concentrations occurring in the early spring and late summer/fall with elevated concentrations (maximum of 278 milligrams per liter [mg/L]) in the spring of 2005.

The BOD concentrations are presented on Figure 2.19. As shown on Figure 2.19, BOD concentrations have randomly ranged from not detected to 29 mg/L since May 2002 with a one-time peak of 45 μg/L in September 2012. The BOD concentrations were compared with the discharge volume but showed no apparent correlation.

In summary, the trends and low level TVOC and TSVOC concentrations described above support the semi-annual sampling frequency in the current City of North Tonawanda Industrial Wastewater Discharge Permit.

2.4 GWS Operations

The volume of water pumped monthly from the Site to the City POTW for treatment during the June 2025 through May 2026 reporting period is presented in Table 2.10 and plotted on Figure 2.20 (along with monthly discharge volumes dating back to May 2001). The monthly volumes show that during the period of initial dewatering of the Site (i.e., May and June 2001) the monthly volumes ranged from 2,300,000 to 2,900,000 gallons. For the period from June 2007 to May 2021, not including the months when the flow meter malfunctioned, the monthly volumes ranged from 23,800 to 2,661,000 gallons except for March 2009, which had a volume of 4,239,000 gallons. As indicated on Figure 2.20, the monthly volumes from June 2020 through November 2024 had increased when compared to the monthly volumes for previous years since 2018. This was likely the result of cleaning of the GWS collection pipe and forcemain completed between June 2020 and December 2020 as indicated in in the 2021 Operation and Monitoring Report. However, as indicated on Figure 2.20, the monthly volumes from November 2024 to May 2026 have decreased when compared to the monthly volumes since 2020. This decrease was observed even though the forcemain cleaning was repeated in October 2024.

The total measured volume of water discharged from the Site for the period from May 2001 to May 2026 was 271,159,458 gallons with 10,666,822 gallons (20.29 gallons per minute [gpm] average) pumped during the 12 months from June 2025 through May 2026. This total represents a decrease from the previous reporting period (June 2024 through May 2025), where 15,562,603 gallons (29.6 gallons per minute [gpm] average) were pumped.

On March 31, 2026, the City observed that the pump in MH9 (Pump Station #2) was not operating properly, resulting in high water levels in Pump Station 2. This observation coincided with a recorded total monthly flow of only 10,875 gallons in April 2026, as opposed to 928,822 gallons of flow recorded in March 2026. As a comparison, a total of 1,067,259 gallons of flow was recorded in April 2025; however, discharge volumes are dependent on a number of factors (including precipitation). Therefore, a direct comparison of monthly discharge volumes should not solely be used to determine the performance of the GWS.

The malfunctioning pump coincided with higher groundwater elevations observed in March, April, and May 2026, resulting in outward gradients at River Middle/MH8 and River South/MH12 in March, April, and May 2026 (which are discussed in Section 2.1).

Upon observing that the pump in Pump Station #2 was not functioning, the pump station was turned off and remained off-line until the pump was replaced. The exact cause of the pump malfunction was not able to be determined, aside from standard wear and tear. The City reported that the pump at Pump Station #2 was replaced on May 11, 2026, and the flowmeter in the meter building was also removed and inspected. The existing pump was replaced with a Tsurumi Model 100BZ43.7 (460 volts, 3 phase, 5 horsepower). However, water levels at MH9 and surrounding wells and

manholes did not immediately reduce after the pump was replaced, resulting in continuing outward gradients observed at River Middle/MH8 and River South/MH12 in May 2026. The River South/MH12 location resumed showing an inner gradient in June and July 2026, however the River Middle/MH8 location continued exhibiting an outward gradient in June and July 2026. Despite the water levels in the vicinity of MH9 not immediately reducing after the pump at MH9 was replaced, the total flow recorded at the meter building for May 2026 rebounded to 820,923 gallons. It is anticipated that the water levels will eventually drop once the overburden is further dewatered by restored pumping at MH9.

Section 5.0 of the O&M Manual describes the procedures to be followed in case pumping of the GWS needs to be stopped to prevent the discharge of untreated water from the Site by the City POTW (i.e., wet-weather shutdown). Wet-weather shutdowns did not occur during this reporting period. Furthermore, the treatment of the Site groundwater by the City POTW did not require any modifications to the standard operations of the City POTW and did not cause any operational upsets of the City POTW from June 2025 to May 2026.

2.5 GWS Maintenance

This section describes the primary GWS maintenance activities performed during the June 2025 through May 2026 time period. Maintenance or cleaning of the GWS was not performed during this reporting period. Inward gradients were observed at all four monitoring locations since the GWS was cleaned in October 2024 through February 2026. However, outward gradients were observed at River Middle/MH8 and River South/MH12 in March, April, and May 2026.

Should outward gradients observed at River Middle/MH8 and River South/MH12 not be corrected through the summer by the restored pumping at MH9, additional cleaning of the forcemain will be completed in fall 2026 in accordance with the scope of work presented in O&M Manual. The last cleaning of the forcemain occurred in October 2024, after outward gradients had been observed at River Middle/MH8 in February through July 2024 and again in September 2024. Since then, outward gradients had not been observed until March 2026. It is anticipated that cleaning will continue to occur in the future every 2 to 4 years; however, this may be slightly adjusted based on gradient monitoring

3. Site Inspections

Site inspections were performed monthly. The Monthly Inspection and Photographic Logs for June 2025 through May 2026 are included in Appendix G and H, respectively. The Photographic Log incorporated changes requested by the NYSDEC in their letter dated September 3, 2024, and includes a figure showing the locations where Site photographs were taken. The inspection that was scheduled for January 2026 was conducted on February 3, 2026, due to heavy snowfall in January 2026.

In summary, the June 2025 through May 2026 inspections identified:

– Soil erosion with wire mesh exposed along portions of the shoreline from June 2025 through May 2026, consistent with that observed from June 2024 to May 2025.
– The areas of erosion and exposed wire mesh were observed along portions of the shoreline near the River North and River Middle outlets, near OGC-5, and near OGC-7.
– Small holes were noticed in the grass cover near the River North outlet and MH6.
– A few small areas of bare grass were observed in the vicinity of the River Middle outfall, near monitoring well OGC-5.
– Repairs are needed to monitoring well OGC-6, where the top 2.5-feet of the steel rise riser pipe was broken off near ground level due to corrosion; however, the protective casing was not compromised and remained secure.

– Repairs are needed to monitoring well OGC-3, where the bottom of the well protective casing was damaged. A hole is present at the base of the casing, and there was evidence of rodents using this hole to build nests inside the casing. The well was still secure and the steel riser pipe inside the casing was not compromised.

Repairs to the monitoring wells will be completed in the fall of 2026. For OGC-3, the damaged well protective casing will be removed, and a new well protective casing will be installed. For OGC-5, the existing steel riser pipe will be extended to replace the section of riser pipe that had broken off. A new survey of the elevation of the top of the riser pipe will be required after the repair is made.

The barrier wall and GWS components are in place and functioning. No maintenance activities are required other than those identified above, as well as continued monitoring of the high water levels at MH9 and associated wells in the vicinity and potential additional investigation and forcemain cleaning if required, as discussed in Section 2.4.

The Site cap (soil cover, access roads, structures, ditches, culverts/manholes) remains in place and no maintenance activities are required other than those identified above. Repairs to the exposed wire mesh along the shoreline and small holes in the grass as described above will be made by importing approved soil to the site, covering the exposed mesh and filling the holes, and re-seeding the imported soil. Repairs to the areas of bare grass as described above will be repaired by re-seeding those areas. The repair activities will be conducted in fall 2026/spring 2027.

The shoreline stabilization and river enhancements remain in place, and no maintenance activities are required other than those identified above.

No changes in Site use occurred during this reporting period.

None of the Site inspections indicated any damage to the cover system from snowplow damage or rutting during the 2025-2026 reporting period.

No excavations occurred, and no material was imported to the Site during this reporting period.

No groundwater usage occurred during this reporting period.

4. Conclusions/Recommendations

4.1 Operation and Maintenance

The constructed remedy is achieving the remedial action objectives.

4.2 Monitoring

Based on the most recent results for the 12 wells listed in Section 2.2, the groundwater TVOC concentrations are:

i.) Less than Class GA standards in 8 of the 12 wells sampled.

ii.) Relatively constant or decreasing in the 12 wells sampled, except for slight increases at MW-8, OGC-2, and OGC-5.

The groundwater TSVOC concentrations are:

i.) Less than Class GA standards in 8 of the 12 wells sampled.

ii.) Relatively constant with random fluctuations in the 12 wells sampled except for slight increases in MW-8, MW-9, and OGC-3.

The groundwater sample collection frequency is:

Annual	Once Every 2 Years (Even Years)
MW-6	MW-7
MW-8	OGC-1
MW-9	OGC-2
OGC-3	OGC-4
OGC-6	OGC-5
OGC-7	OGC-8

It is recommended that the sampling frequency remain unchanged.

Pursuant to the discharge permit (effective March 1, 2025), semi-annual monitoring was performed once during the time period June 2025 through May 2026. The trends in the effluent from the GWS to the POTW support the continuation of the sampling frequency at semi-annual. Flow monitoring will continue to be performed monthly as a check on the operation of the GWS.

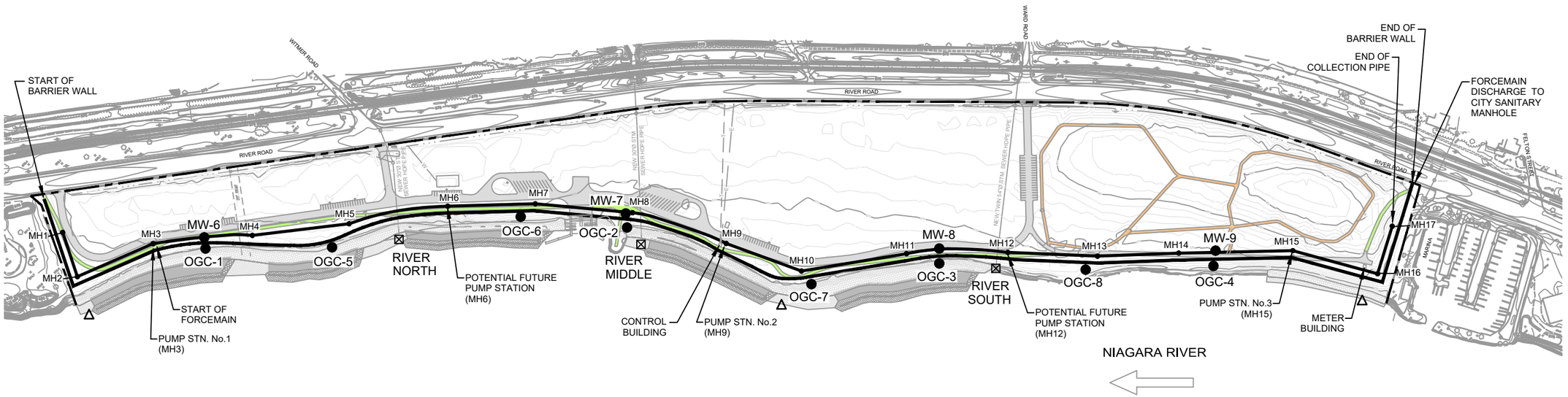
Monthly monitoring of the sediment thickness in the GWS manholes will continue. If necessary to ensure flow in the collection pipe, any sediment will be removed during low flow conditions, which typically occur in late summer. No sediment was removed during this reporting period.

As stated in Section 2.2.1, monitoring wells MW-7, OGC-1, OC-2 and OGC-5 exhibited elevated turbidity during purging and sampling activities. These wells are sampled every 2 years, and will be sampled again in 2028. All four wells will be re-developed in the spring of 2028 prior to the 2028 sample event.

4.3 Notifications to City of North Tonawanda

Notifications of anomalies in the visual inspections, discharge volumes and/or groundwater levels were and will continue to be provided to the City of North Tonawanda Public Works Engineering and Wastewater Treatment Department within a few days of measurement of the anomaly to allow for timely maintenance.

Figures



LEGEND

- PROPERTY BOUNDARY
- BARRIER WALL
- MH11 — GROUNDWATER COLLECTION SYSTEM
- ● OGC-1 / MW-1 — MONITORING WELL LOCATION
- ⊠ RIVER SOUTH — SURFACE WATER LEVEL MONITORING LOCATION
- △ — SURFACE WATER CHEMICAL MONITORING LOCATION (NO SAMPLING AFTER APRIL 2008)

0 200 400 ft

1" = 400 ft

GHD

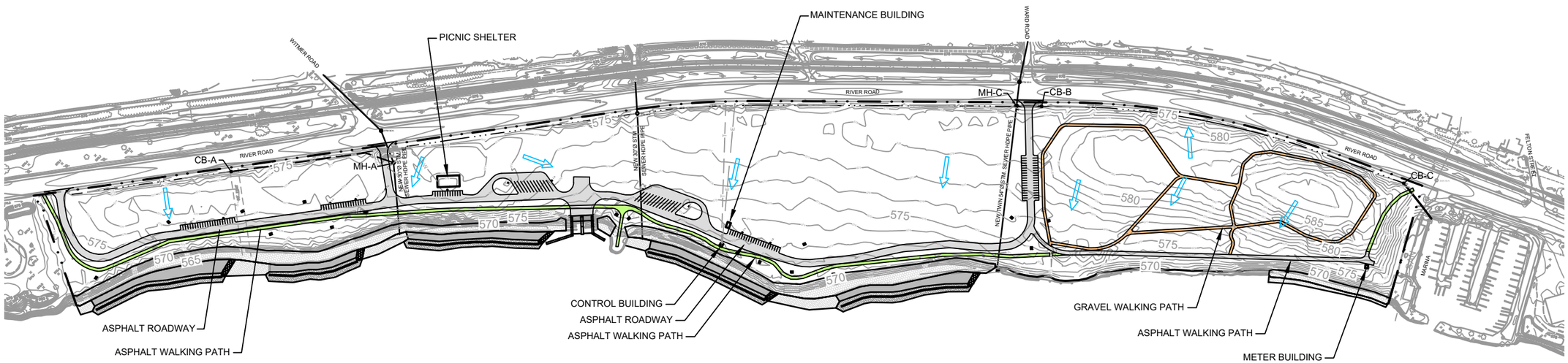
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OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

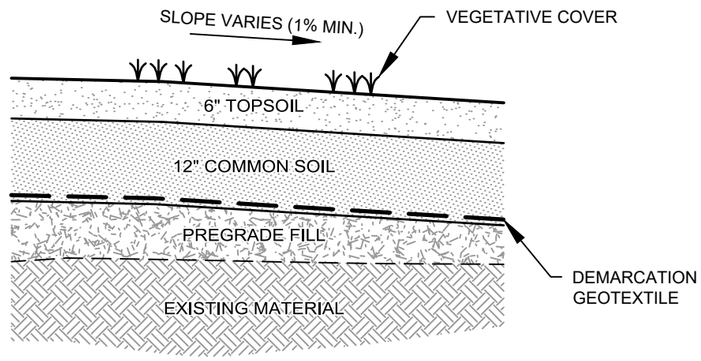
MONITORING NETWORK

Project No. **7987**
Date **June 2026**

FIGURE 2.1

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Plot Date: 10 June 2026 8:27 AM





TYPICAL PERMEABLE SOIL CAP

LEGEND

- 577 — CAP CONTOURS
- SURFACE WATER FLOW DIRECTION
- PICNIC TABLE SLABS

0 200 400 ft

1" = 400 ft

GHD

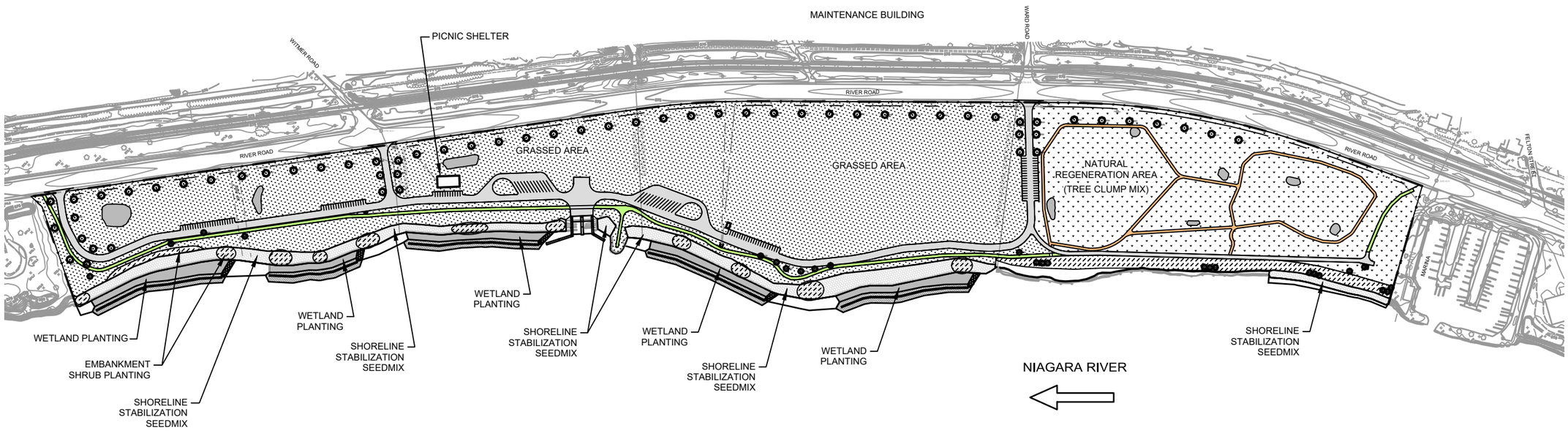
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- JUNE 2025 TO MAY 2026

PERMEABLE SITE CAP SYSTEM

Project No. **7987**
Date **June 2026**

FIGURE 2.2

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Plot Date: 10 June 2026 8:28 AM



LEGEND

- TREE
- TREE CLUMP
- EMBANKMENT SHRUB PLANTING AREA

0 200 400 ft

1" = 400 ft

GHD

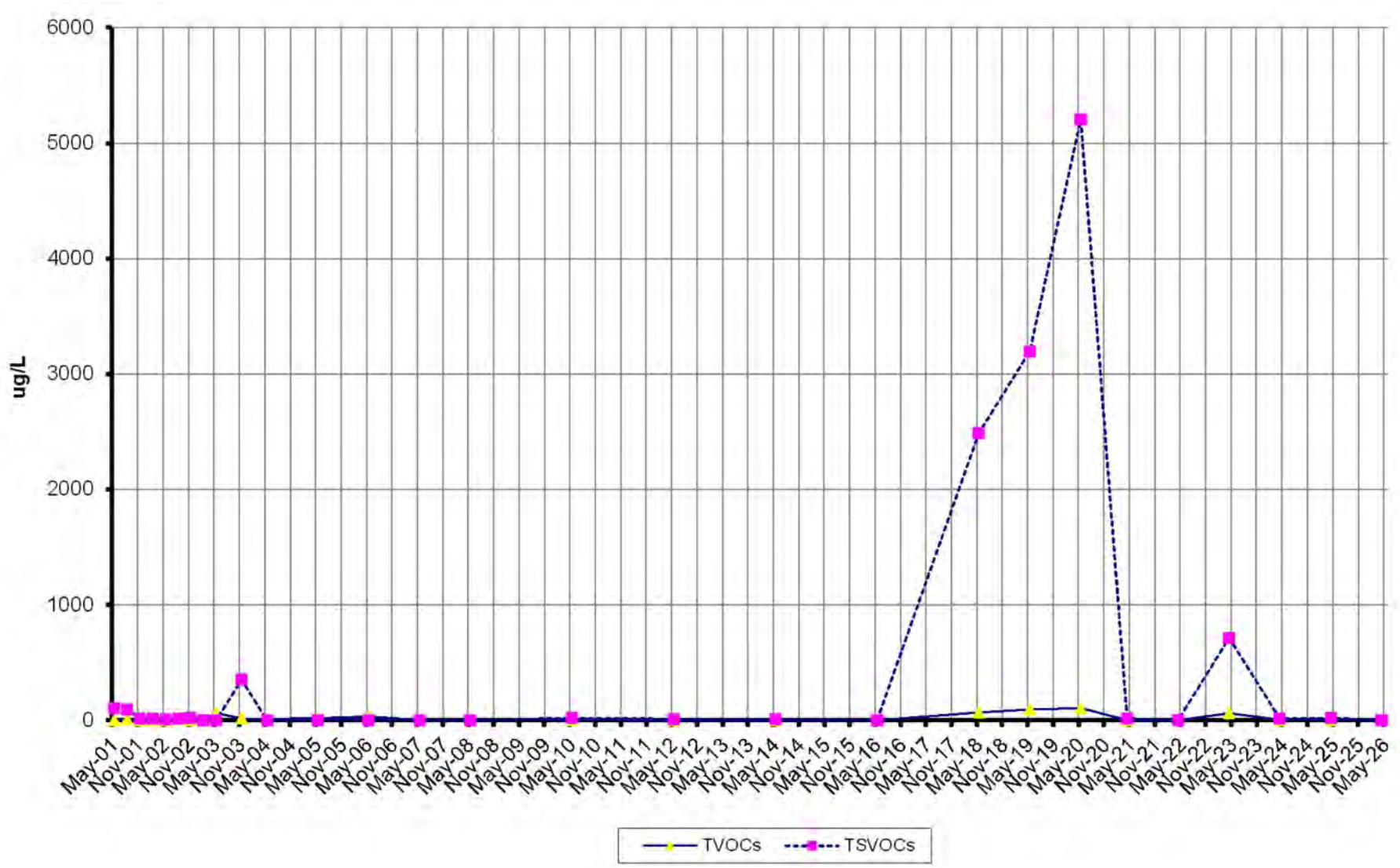
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- JUNE 2025 TO MAY 2026

PLANTING PLAN/SITE ACCESS ROADS

Project No. **7987**
Date **June 2026**

FIGURE 2.3

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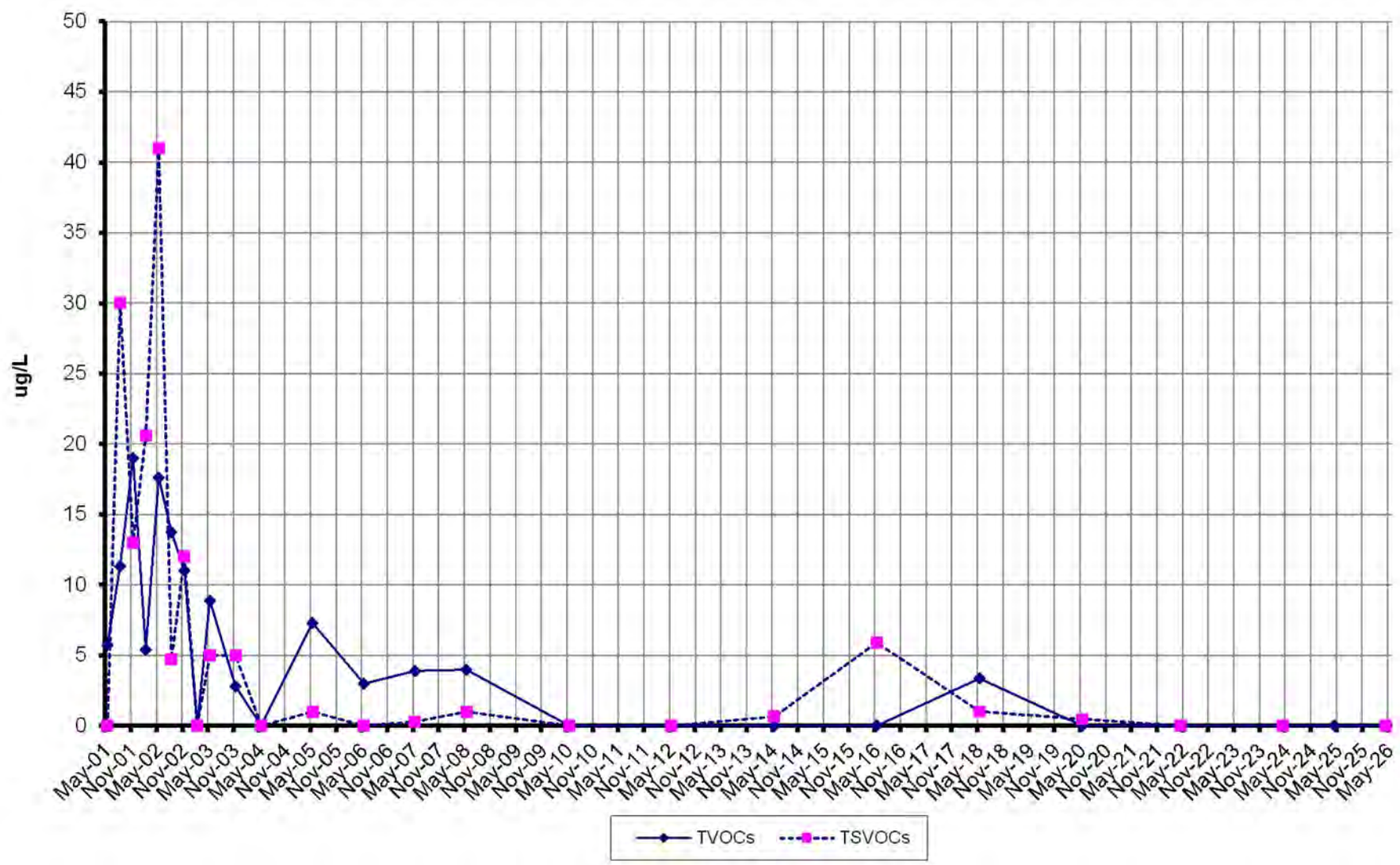
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MW-6 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.4

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D104_WA-055.dwg
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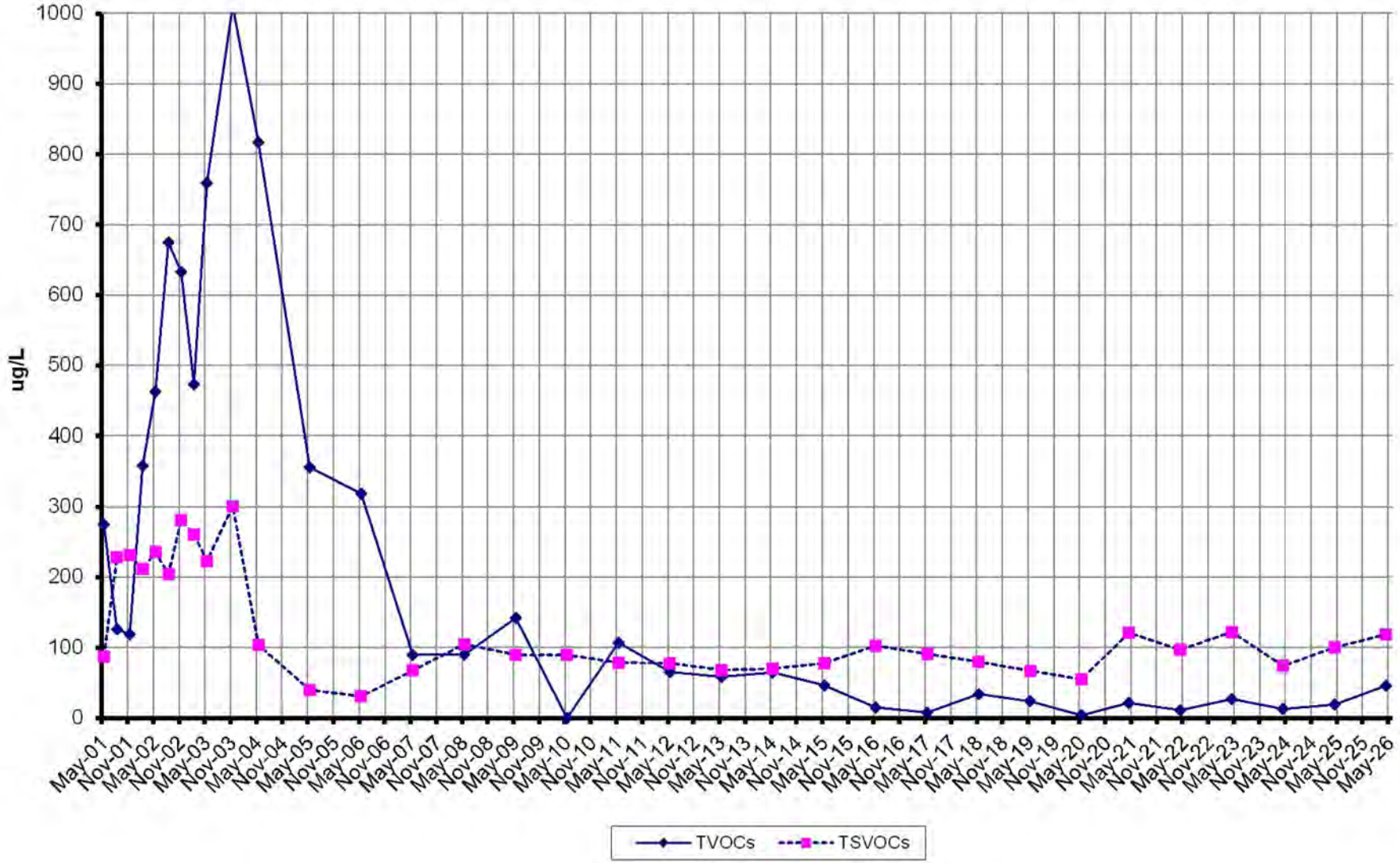
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- JUNE 2025 TO MAY 2026

MW-7 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.5

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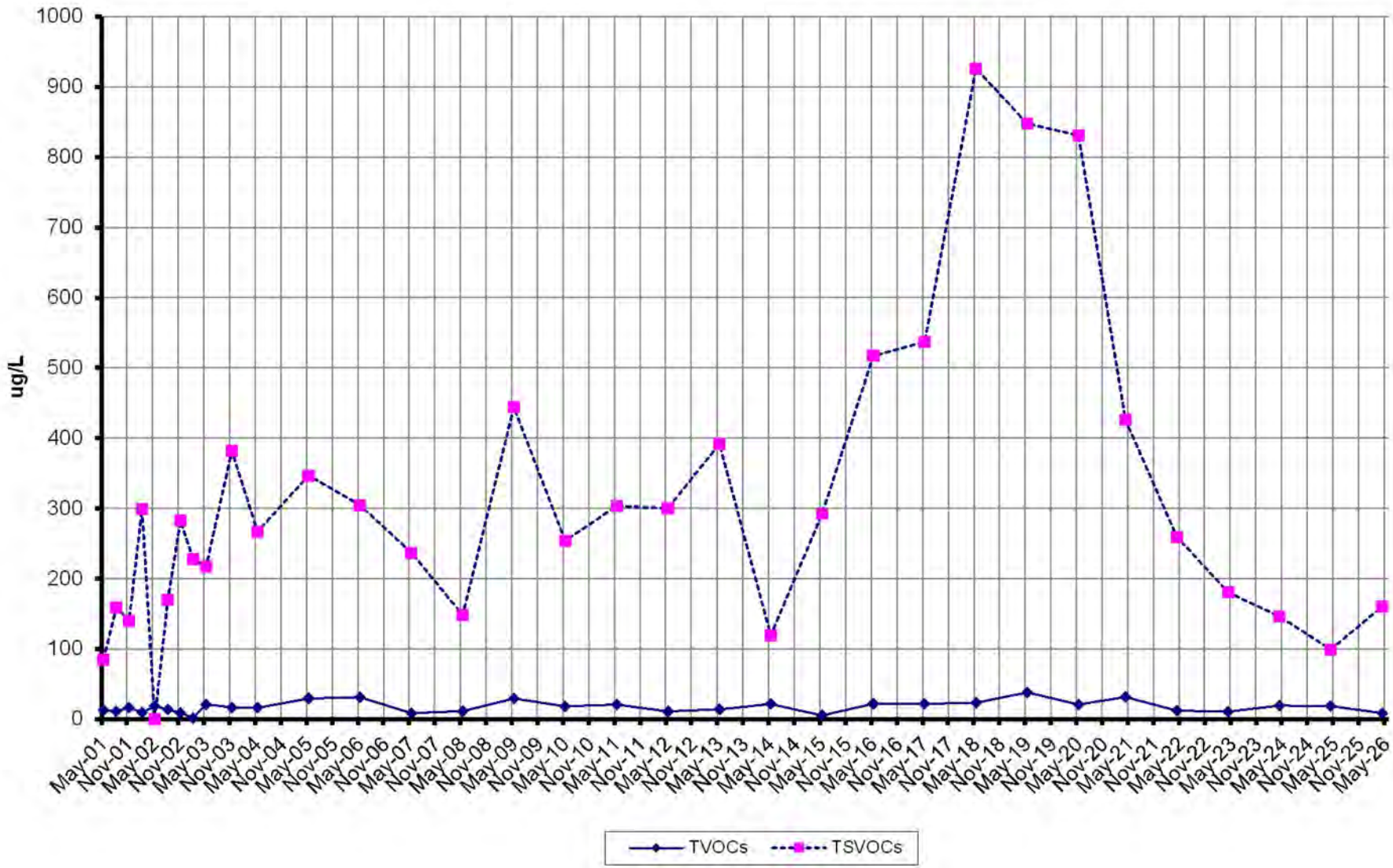
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- JUNE 2025 TO MAY 2026

MW-8 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.6

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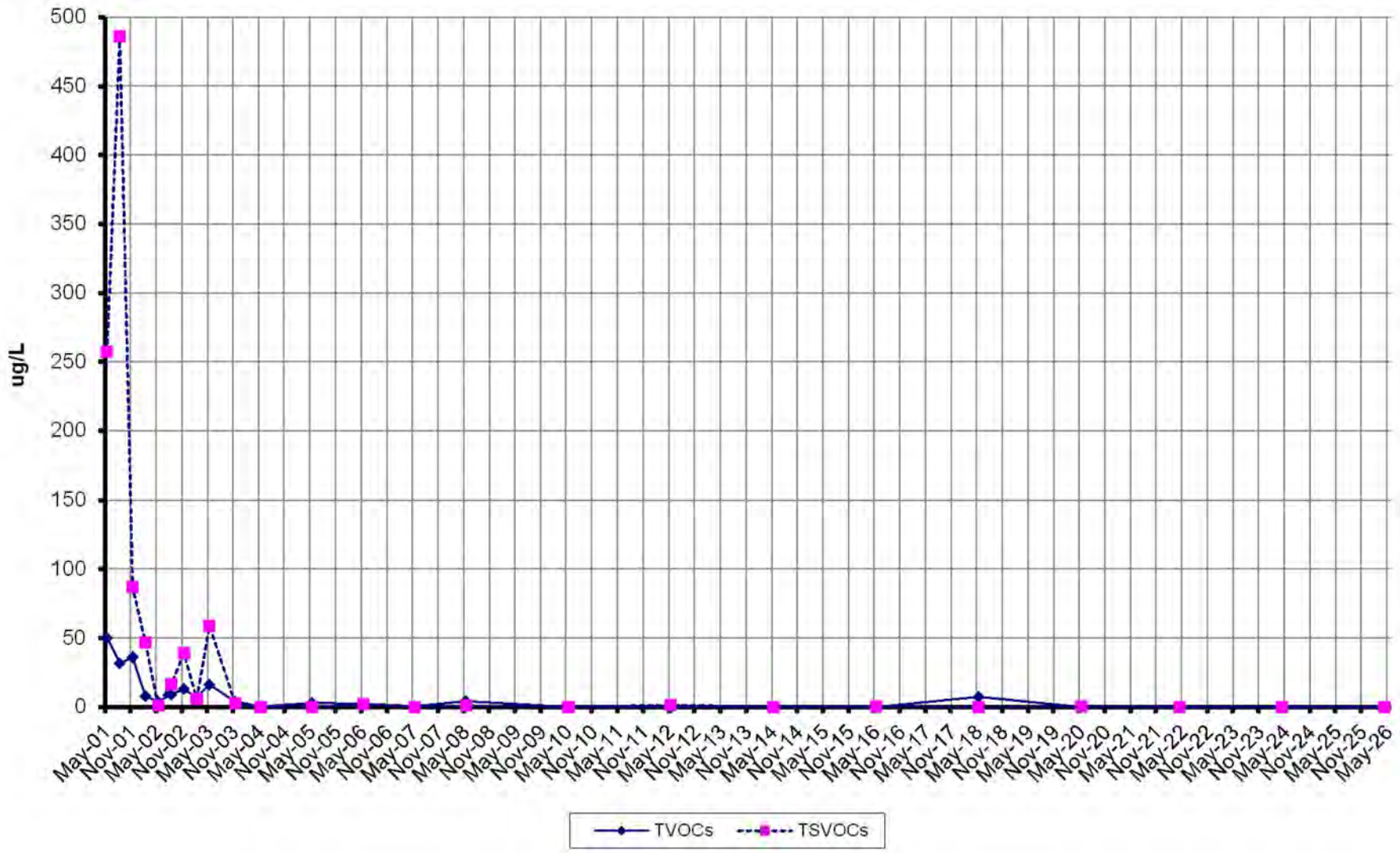
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MW-9 TVOC AND TSVOC CONCENTRATIONS

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Date **June 2026**

FIGURE 2.7

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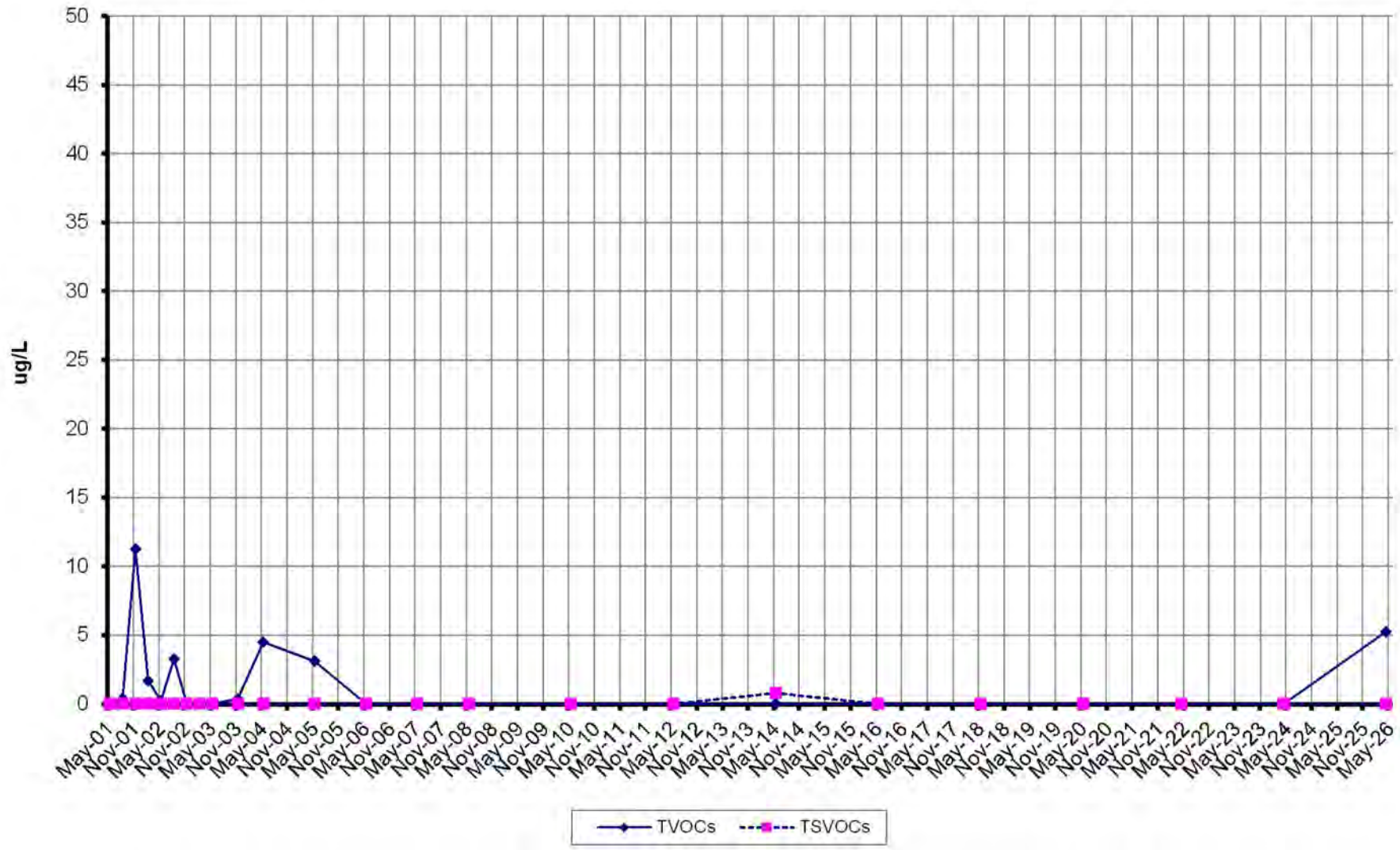
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OGC-1 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.8

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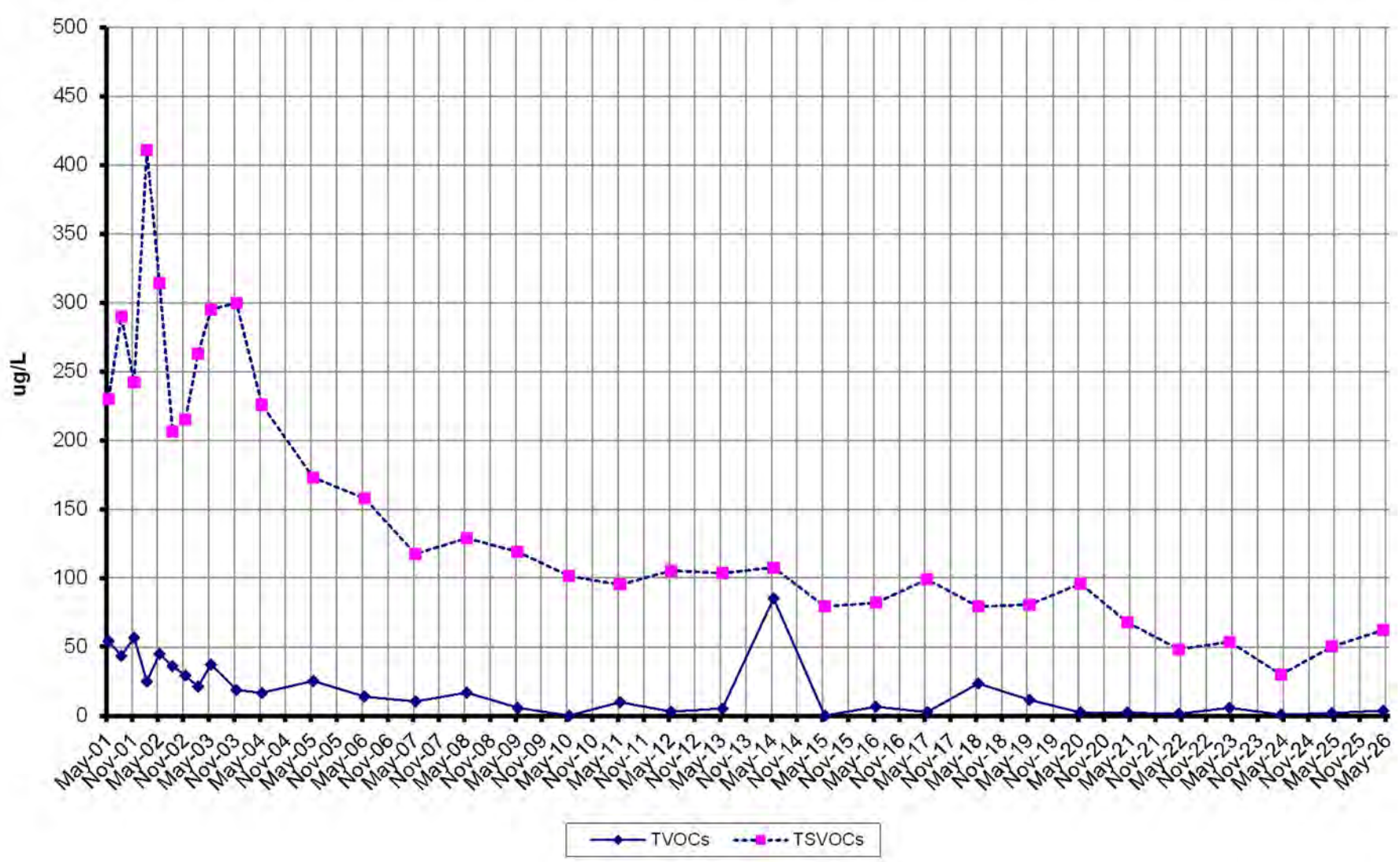
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OGC-2 TVOC AND TSVOC CONCENTRATIONS

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Date **June 2026**

FIGURE 2.9

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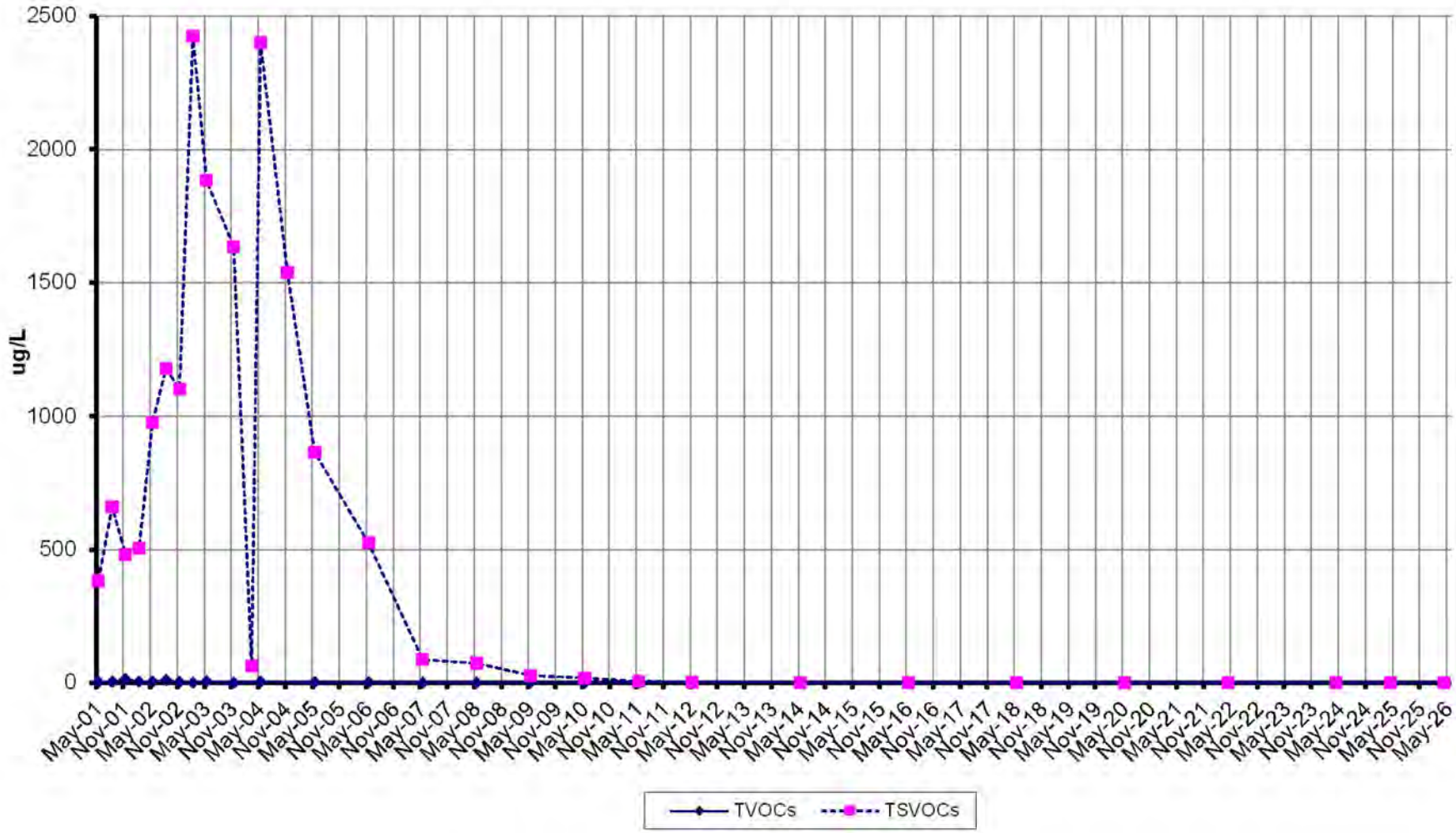
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OGC-3 TVOC AND TSVOC CONCENTRATIONS

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FIGURE 2.10

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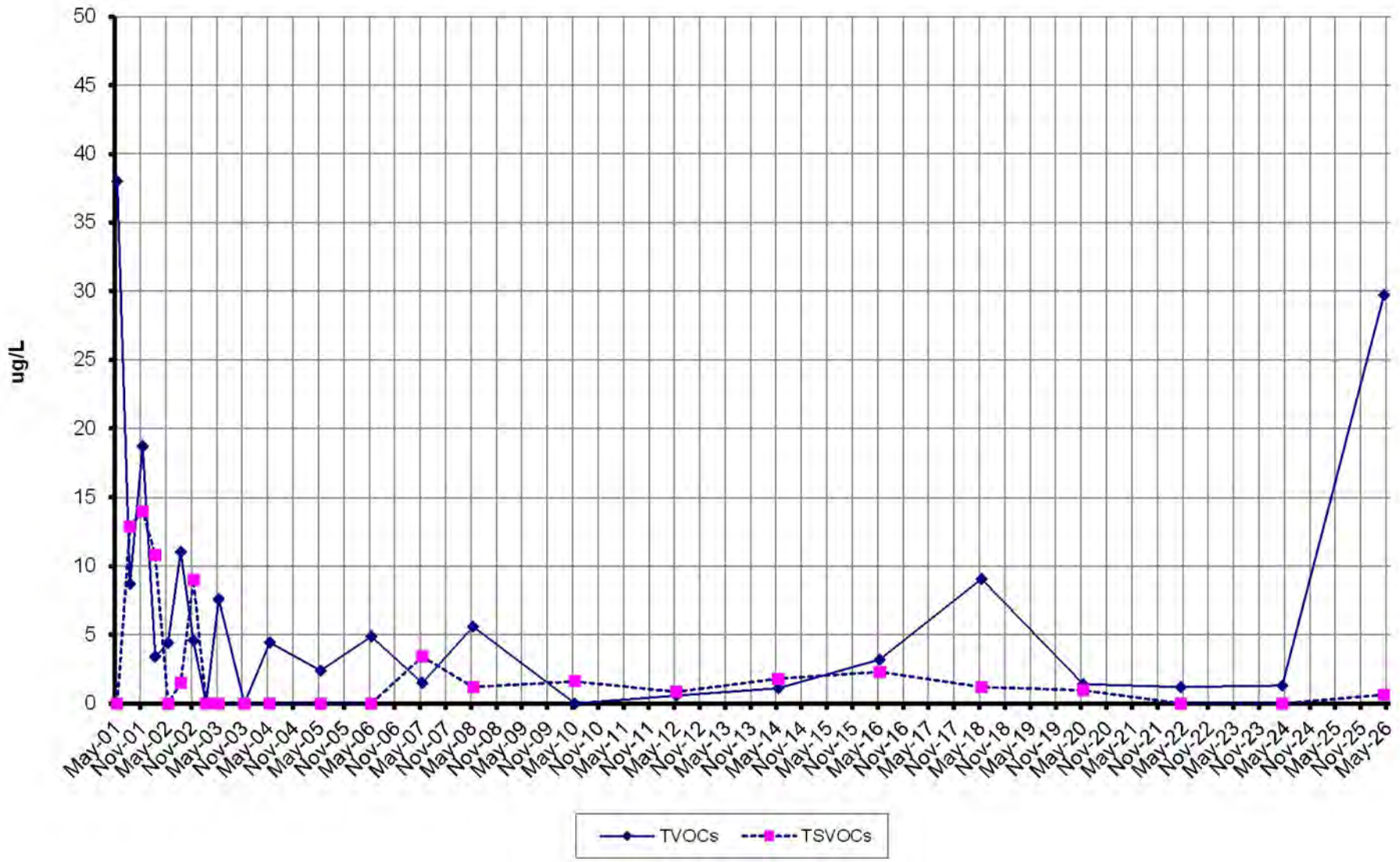
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OGC-4 TVOC AND TSVOC CONCENTRATIONS

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Date **June 2026**

FIGURE 2.11

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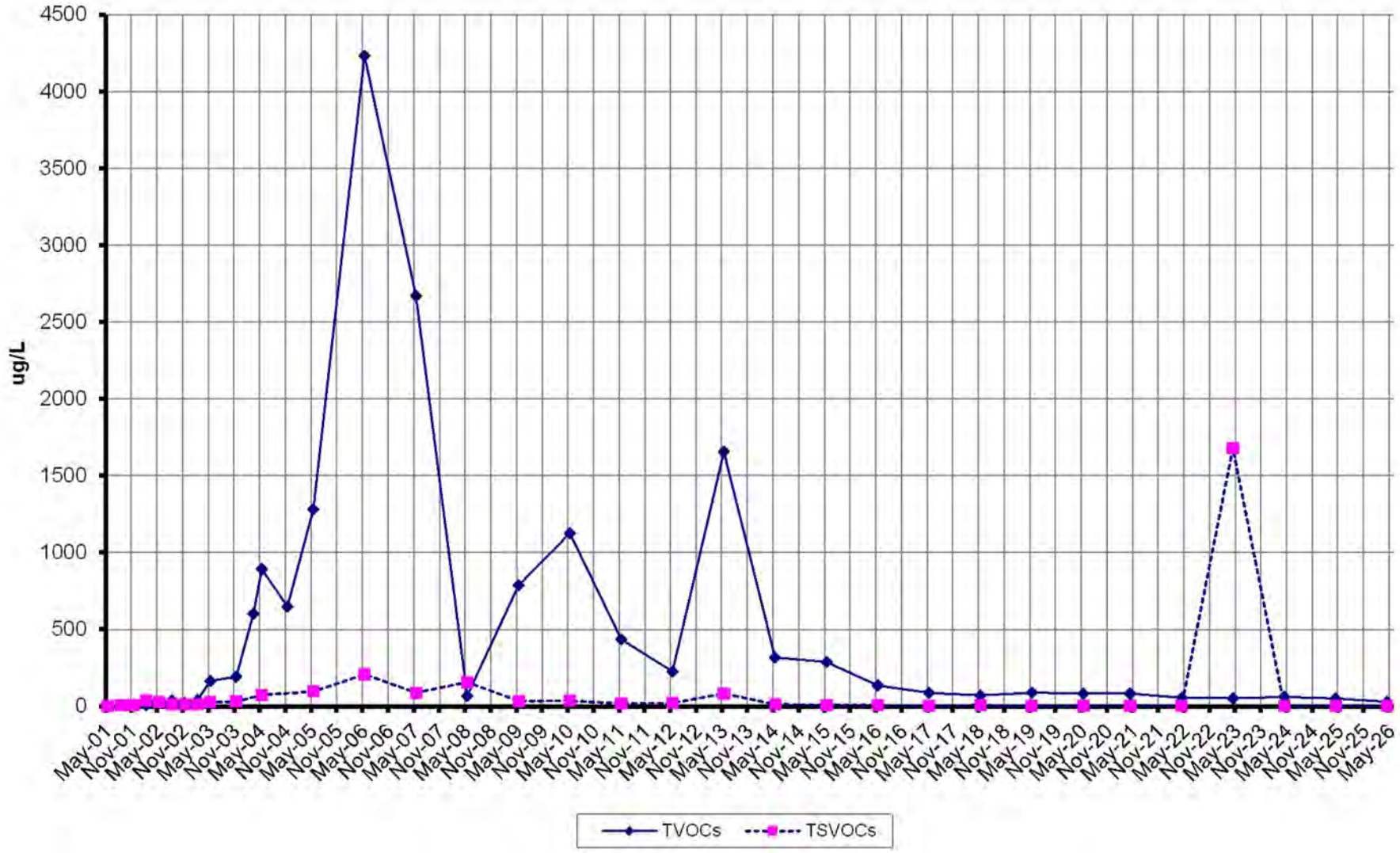
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OGC-5 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.12

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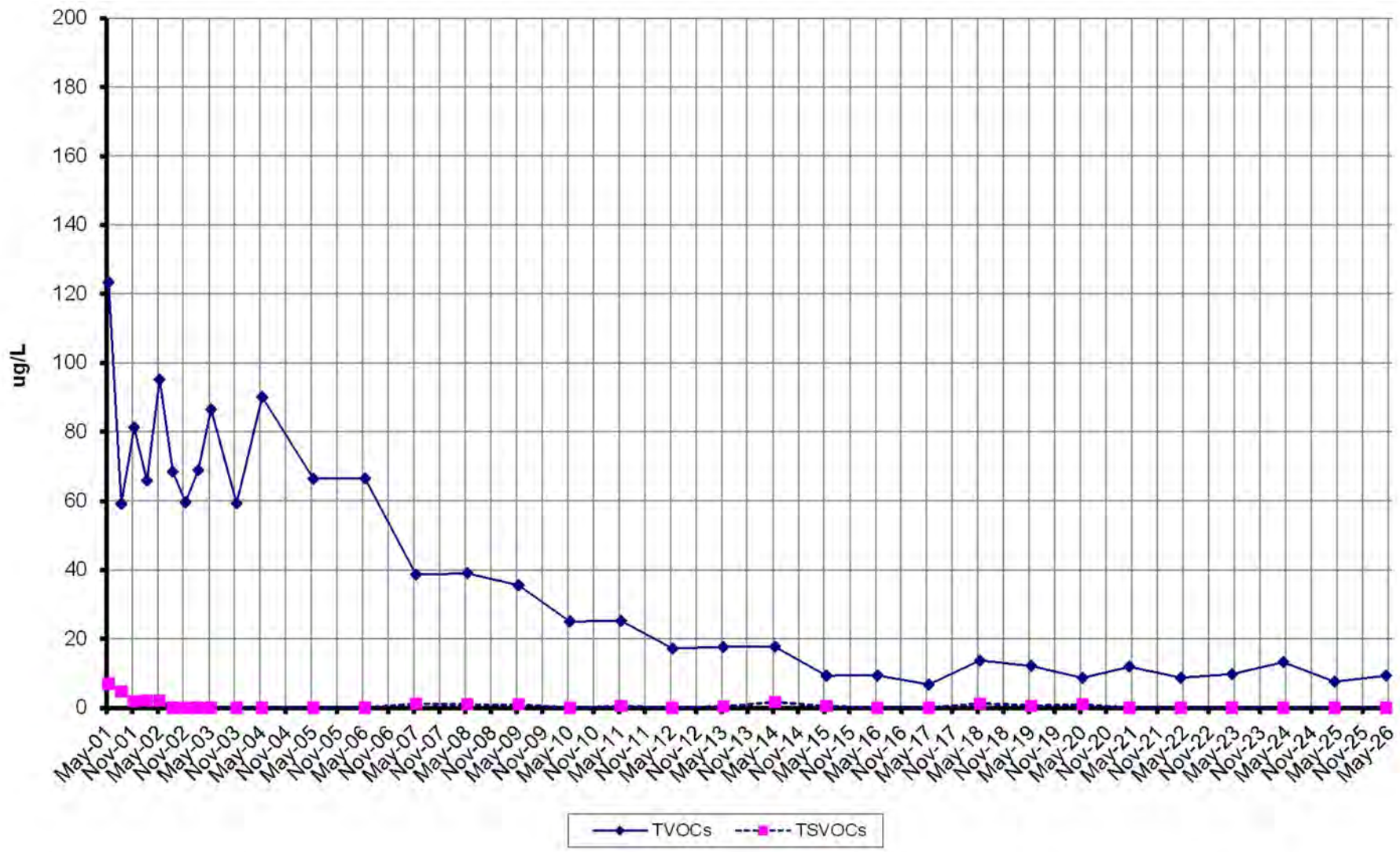
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OPERATION AND MONITORING REPORT
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OGC-6 TVOC AND TSVOC CONCENTRATIONS

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Date **June 2026**

FIGURE 2.13

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D113_WA-055.dwg
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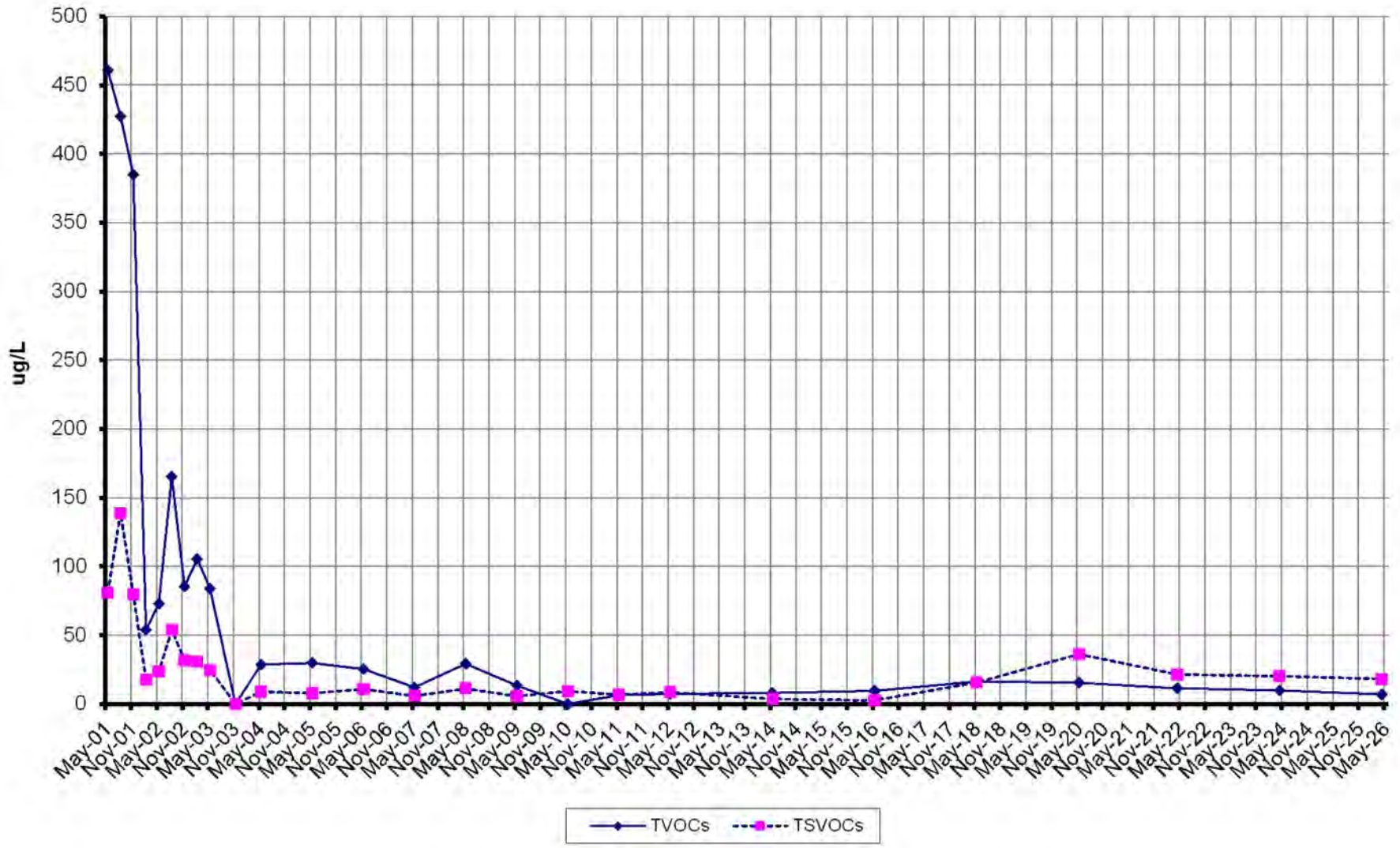
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OGC-7 TVOC AND TSVOC CONCENTRATIONS

Project No. **7987**
Date **June 2026**

FIGURE 2.14

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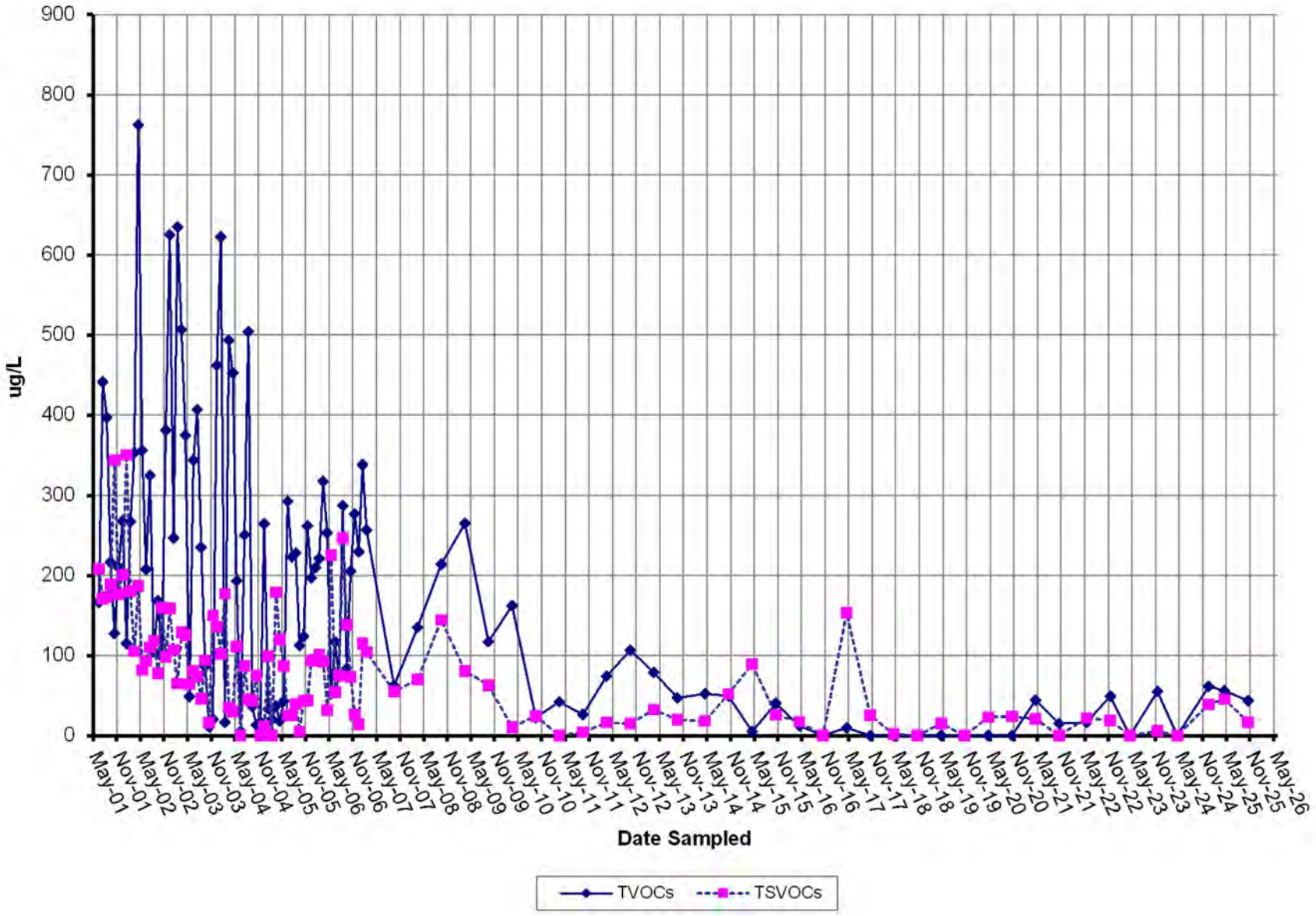
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OGC-8 TVOC AND TSVOC CONCENTRATIONSS

Project No. **7987**
Date **June 2026**

FIGURE 2.15

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D115_WA-055.dwg
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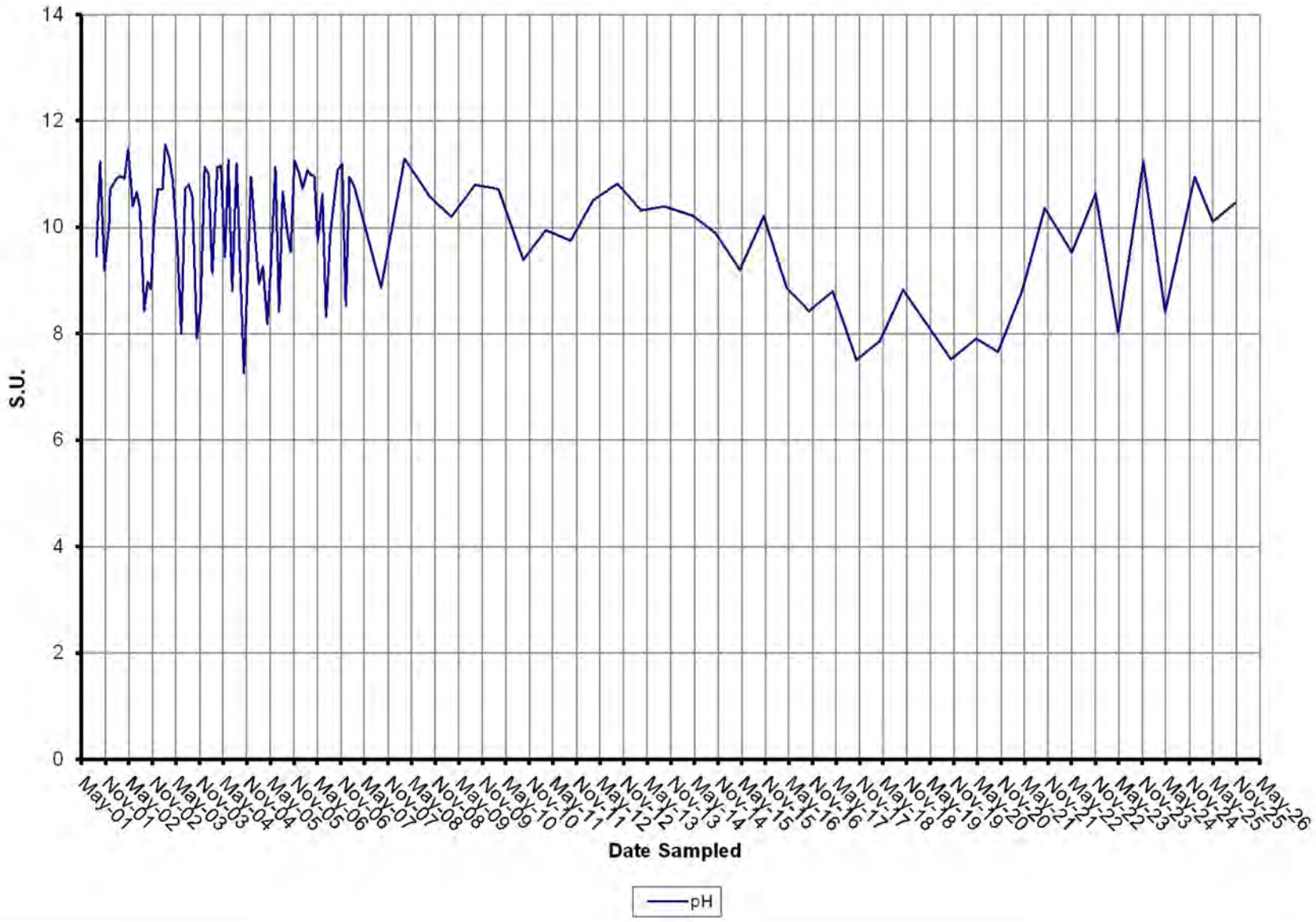
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NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

Project No. **7987**
Date **June 2026**

EFFLUENT TVOCs AND TSVOCs vs. TIME

FIGURE 2.16

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D116_WA-055.dwg
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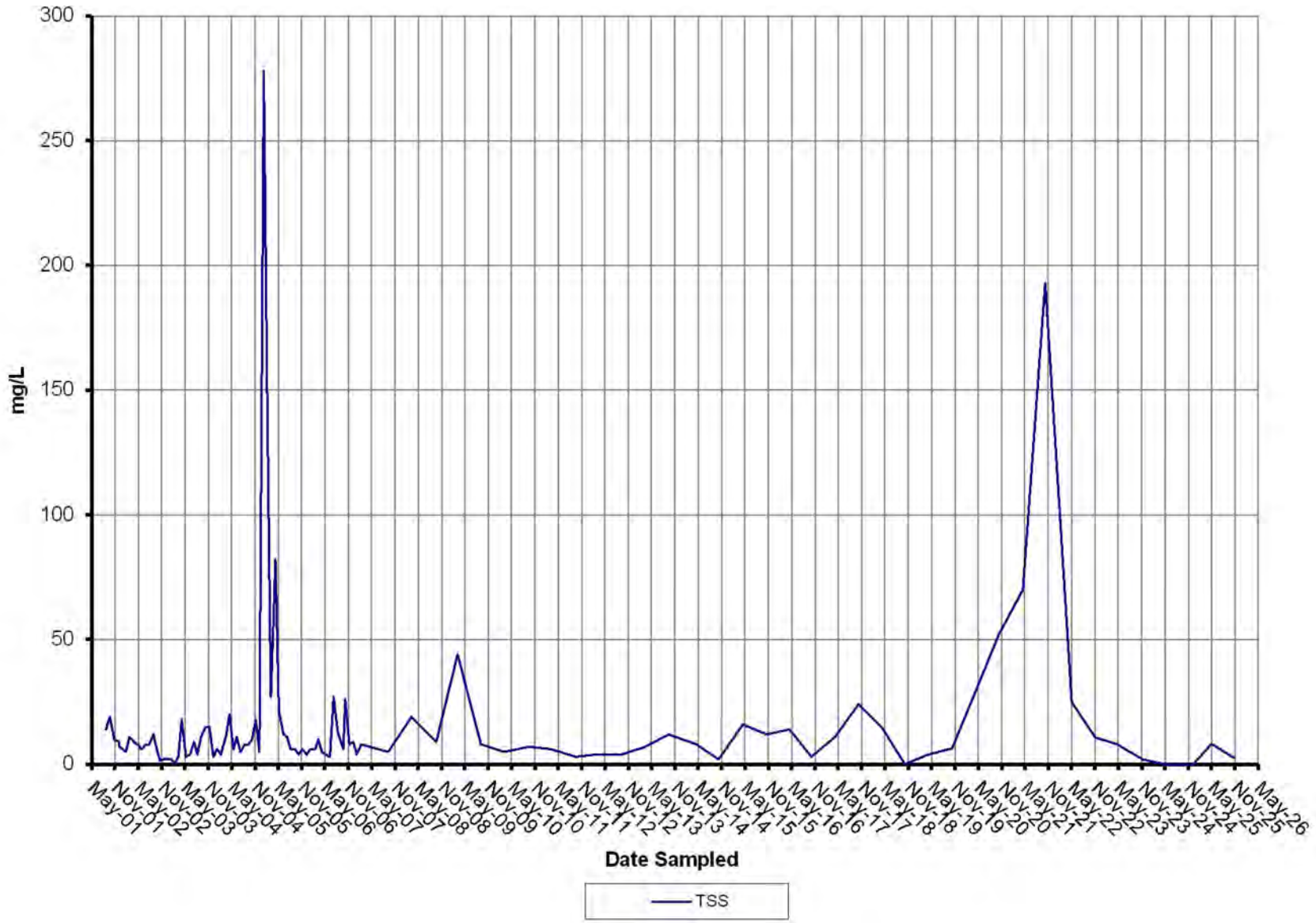
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NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

Project No. **7987**
Date **June 2026**

EFFLUENT pH vs. TIME

FIGURE 2.17

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D117_WA-055.dwg
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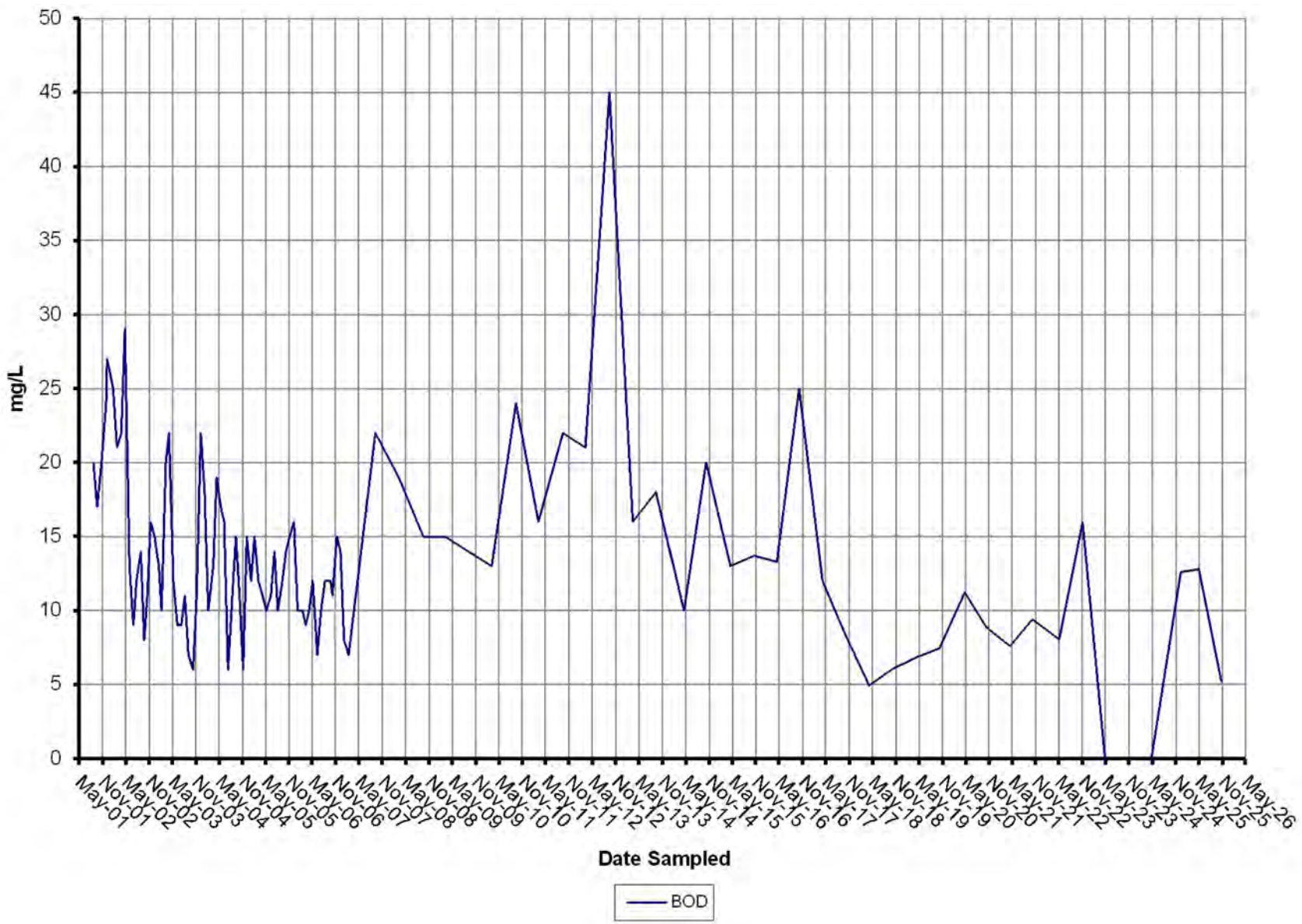
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- JUNE 2025 TO MAY 2026

EFFLUENT TOTAL SUSPENDED SOLIDS vs. TIME

Project No. **7987**
Date **June 2026**

FIGURE 2.18

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Plot Date: 10 June 2026 9:00 AM



GHD

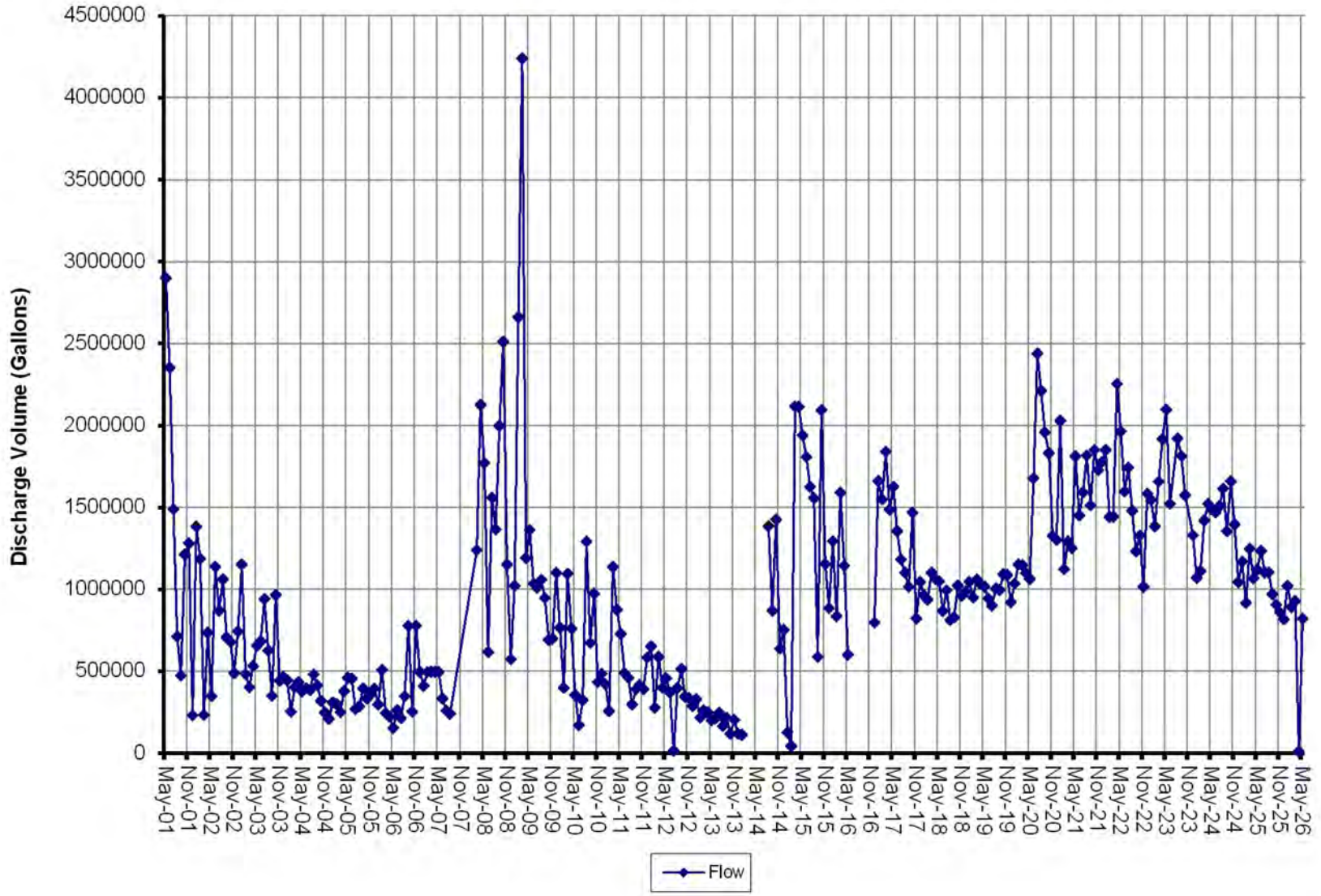
GRATWICK - RIVERSIDE PARK SITE
NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

Project No. **7987**
Date **June 2026**

EFFLUENT BOD vs. TIME

FIGURE 2.19

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Plot Date: 10 June 2026 9:01 AM



GHD

GRATWICK - RIVERSIDE PARK SITE
NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

EFFLUENT VOLUME vs. TIME

Project No. **7987**
Date **June 2026**

FIGURE 2.20

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Plot Date: 10 June 2026 9:03 AM

Tables

Table 2.1

Groundwater Hydraulic Monitoring Locations
Gratwick-Roverside Park Site
North Tonawanda, New York

Inward Hydraulic Gradient Monitoring Locations						
	Inner [(1)]			**Outer**		
	MH2			Niagara River North (Downstream)		
	MH6			Niagara River North (Downstream)		
	MH8			Niagara River Middle		
	MH12			Niagara River South (Upstream)		
Upward Hydraulic Gradient Monitoring Locations						
	Upper [(1)]			**Lower**		
	MH3			MW-6		
	MH8			MW-7		
	MH11			MW-8		
	MH14/MH15 [(2)]			MW-9		
Additional Hydraulic Monitoring Locations						
	MH9			MH16		
	OGC-1			OGC-5		
	OGC-2			OGC-6		
	OGC-3			OGC-7		
	OGC-4			OGC-8		
Frequency						
Monthy						
Notes:						
(1)	These manholes will be monitored twice daily by POTW staff during a wetweather bypass event pursuant to Section 5.0 of the O&M Manual.					
(2)	Distance weighted averages of water levels used (MH14 - two thirds and MH15 - one third).					

Table 2.2

Water Levels (FT AMSL)
Gratwick-Riverside Park Site
North Tonawanda, New York

Date	MH2	MH3	MH6	OGC-1	MW-6	OGC-5	River North	OGC-6	MH8	MW-7	OGC-2	River Middle	OGC-7
RIM Elevation	**573.28**	**573.81**	**572.03**						**572.37**				
TOC Elevation (ft amsl)				**575.01**	**575.40**	**573.82**	**566.80**	**576.65**		**575.57**	**574.08**	**566.48**	**572.49**
June 27, 2025	560.19	558.51	559.83	565.10	565.47	564.87	564.83	564.80	562.37	563.17	565.18	564.53	565.09
July 25, 2025	560.08	557.90	559.78	565.00	565.40	565.02	564.86	564.85	561.82	562.73	565.11	564.51	565.15
August 29, 2025	560.44	559.15	559.53	564.91	565.20	564.77	564.75	564.76	560.43	561.37	564.90	564.48	565.09
September 29, 2025	561.33	559.66	559.54	564.61	565.15	564.43	564.67	564.45	559.92	560.97	564.58	564.18	564.78
October 29, 2025	560.71	559.53	559.71	564.60	565.35	564.29	564.65	564.45	560.19	561.23	564.43	564.19	564.66
November 26, 2025	560.93	559.98	559.51	564.16	565.20	564.12	564.72	563.84	560.22	561.37	564.11	564.20	564.14
December 19, 2025	560.56	558.71	559.71	564.60	565.40	564.45	564.83	563.95	560.32	561.54	564.18	564.57	564.59
February 3, 2026	560.98	559.67	560.28	564.62	566.00	564.49	566.03	564.66	(2)	565.67	564.27	565.56	565.01
February 26, 2026	561.13	559.98	560.41	564.74	566.07	564.54	562.78	564.72	560.38	565.77	564.31	562.91	565.22
March 27, 2026	560.80	558.65	561.58	565.31	567.30	564.41	564.85	564.53	566.52	567.22	564.59	564.58	564.43
April 30, 2026	561.47	559.62	562.30	565.21	568.07	564.92	564.80	565.27	567.77	568.60	565.30	564.43	565.19
May 27, 2026	563.07	561.61	562.33	565.20	568.00	565.07	564.80	565.30	567.17	567.62	565.39	564.52	565.14

Date	MH9	OGC-3	MH11	MW-8	River South	MH12	OGC-8	OGC-4	MW-9	MH14	MH15	MH14 / MH15*	MH16
RIM Elevation			**572.11**			**572.37**				**574.30**	**575.84**		**574.82**
TOC Elevation (ft amsl)	**572.55**	**573.35**		**574.37**	**568.46**		**574.01**	**574.66**	**576.23**				
June 27, 2025	563.03	565.28	565.80	566.18	565.11	563.48	565.29	565.17	566.50	566.40	561.89	564.90	566.59
July 25, 2025	561.60	565.28	565.54	565.88	565.17	563.23	565.30	565.26	566.20	566.14	560.10	564.13	566.31
August 29, 2025	560.15	565.25	565.11	565.57	565.06	562.80	565.26	565.16	565.83	565.90	561.51	564.44	565.97
September 29, 2025	559.25	564.85	564.81	565.12	564.76	562.47	564.86	564.84	565.58	565.38	559.94	563.57	565.70
October 29, 2025	559.65	564.81	564.46	565.03	564.75	562.37	564.86	563.61	565.49	565.29	560.28	563.62	565.58
November 26, 2025	559.25	564.19	565.01	565.49	564.07	562.77	564.20	564.26	565.89	565.72	559.11	563.52	565.92
December 19, 2025	559.15	564.77	566.00	565.94	564.79	563.47	564.81	564.71	566.22	566.43	559.59	564.15	566.32
February 3, 2026	563.20	564.54	(2)	566.47	564.35	563.77	564.61	564.65	566.78	(2)	558.95	NC	566.87
February 26, 2026	563.60	564.57	(2)	567.02	564.38	564.02	564.63	564.67	566.73	(2)	559.18	NC	566.81
March 27, 2026	566.55	564.36	567.31	567.66	564.88	564.99	564.37	564.43	567.83	567.76	561.31	565.61	567.87
April 30, 2026	(2)	566.24	568.31	568.67	565.06	565.97	565.28	565.20	568.78	569.10	560.31	566.17	568.81
May 27, 2026	566.65	565.15	567.88	568.27	565.06	565.57	565.30	565.09	568.53	568.45	559.44	565.45	568.57

Notes:

(1) River level too low to obtain a measurement at the measuring location.
(2) Unable to access due to snow/ice.
(3) Top of ice
(4) Dry
NM - Not measured
NC - Not calculated
* - Distance weighted for MH14 (two thirds) and MH15 (one third).

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		06/27/2013		07/24/2013		08/22/2013		09/30/2013		10/30/2013		11/27/2013	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.75	Inward	565.11 (2)	Inward	565.10	Inward	564.87	Inward	564.49 (2)	Inward	564.05 (2)	Inward
Inner	MH2	564.37		564.38		564.18		564.17		564.47		564.94	
Outer	River North	564.75	Inward	565.11 (2)	Inward	565.10 (1)	Inward	564.87	Inward	564.49 (2)	Inward	564.05 (2)	Inward
Inner	MH6	557.96		558.10		557.71		557.72		558.05		557.69	
Outer	River Middle	564.58	Inward	564.95	Inward	564.95	Inward	564.74	Inward	564.30	Inward	563.63	Inward
Inner	MH8	562.69		562.93		562.41		562.48		562.79		562.35	
Outer	River South	565.00	Inward	565.37	Inward	565.37	Inward	565.15	Inward	564.74	Inward	564.30	Inward
Inner	MH12	561.50		561.40		561.17		561.03		561.35		561.39	

		12/31/2013		01/30/2014		2/26/2014		3/28/2014		4/25/2014		5/29/2014	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.62 (2)	Inward	564.80	Inward	564.30 (2)	Outward	564.96	Inward	564.45 (2)	Inward	564.67 (2)	Inward
Inner	MH2	564.41		564.13		567.53		564.10		564.42		564.46	
Outer	River North	564.62 (2)	Inward	564.80	Inward	564.30 (2)	Inward	564.96	Inward	564.45 (2)	Inward	564.67 (2)	Inward
Inner	MH6	558.11		557.64		558.01		557.62		558.36		558.41	
Outer	River Middle	564.93 (1)	Inward	565.50 (1)	Inward	563.98	Inward	564.39	Inward	564.28	Inward	564.60	Inward
Inner	MH8	562.86		562.41		562.81		562.21		563.03		563.20	
Outer	River South	564.87 (3)	Inward	565.63	Inward	564.55	Inward	564.38	Inward	564.70	Inward	564.92	Inward
Inner	MH12	561.78		561.65		561.48		561.78		562.08		562.06	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		06/25/2014		07/29/2014		08/26/2014		09/30/2014		10/29/2014		11/25/2014	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.80	Inward	564.90 (2)	Inward	564.91	Inward	564.67	Inward	564.81	Inward	565.41	Inward
Inner	MH2	564.38		564.24		564.26		564.01		564.06		563.88	
Outer	River North	564.80	Inward	564.90 (2)	Inward	564.91 (1)	Inward	564.67	Inward	564.81	Inward	565.41	Inward
Inner	MH6	558.14		557.93		557.84		557.82		557.82		557.44	
Outer	River Middle	564.67	Inward	564.78	Inward	564.77	Inward	564.54	Inward	564.65	Inward	565.43 (1)	Inward
Inner	MH8	562.94		562.84		562.58		562.51		562.54		562.09	
Outer	River South	565.11	Inward	565.15	Inward	565.15	Inward	564.96	Inward	565.15	Inward	565.56	Inward
Inner	MH12	561.68		561.37		561.25		560.97		560.87		560.85	

		12/30/2014		01/28/2015		02/24/2015		03/25/2015		04/23/2015		05/29/2015	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.20 (2)	Outward	564.85	Outward	564.35 (2)	Outward	563.61 (2)	Outward	564.82	Outward	564.78	Inward
Inner	MH2	567.26		565.50		565.75		564.69		565.70		564.77	
Outer	River North	564.20 (2)	Inward	564.85	Inward	564.35 (2)	Inward	563.61 (2)	Inward	564.82	Inward	564.78	Inward
Inner	MH6	557.71		559.07		559.45		558.97		559.94		558.47	
Outer	River Middle	563.90	Inward	564.78	Inward	564.47 (1)	NC	563.63	Outward	564.60	Outward	564.65	Inward
Inner	MH8	562.20		563.96		NM		563.76		564.85		563.26	
Outer	River South	564.45	Inward	565.24	Inward	564.80	Inward	563.86	Inward	565.04	Inward	565.05	Inward
Inner	MH12	561.15		562.14		562.51		561.78		562.69		561.28	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		06/24/2015		07/28/2015		08/27/2015		09/25/2015		10/30/2015		11/25/2015	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.15	Inward	565.27	Inward	565.13	Inward	565.01	Inward	564.71	Inward	563.94 (2)	Outward
Inner	MH2	564.80		564.79		564.62		564.70		564.69		564.59	
Outer	River North	565.15	Inward	565.27	Inward	565.13	Inward	565.01	Inward	564.71	Inward	563.94 (2)	Inward
Inner	MH6	558.20		557.84		557.71		557.81		557.51		557.23	
Outer	River Middle	565.07	Inward	565.16	Inward	565.06	Inward	564.91	Inward	564.49	Inward	563.83	Inward
Inner	MH8	562.96		562.60		562.46		562.53		562.24		561.85	
Outer	River South	565.44	Inward	565.50	Inward	565.47	Inward	565.31	Inward	565.00	Inward	564.19	Inward
Inner	MH12	561.25		561.16		560.96		560.91		560.69		560.35	

		12/30/2015		01/28/2016		02/23/2016		03/31/2016		04/28/2016		05/26/2016	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.48 (2)	Outward	564.39 (2)	Outward	563.91 (2)	Outward	564.35 (2)	Outward	564.76	Outward	564.82	Outward
Inner	MH2	564.50		564.77		564.86		565.66		566.56		566.95	
Outer	River North	564.48 (2)	Inward	564.39 (2)	Inward	563.91 (2)	Inward	564.35 (2)	Inward	564.76	Inward	564.82	Inward
Inner	MH6	557.26		557.42		558.15		559.61		560.20		560.61	
Outer	River Middle	564.18	Inward	564.15	Inward	563.48	Inward	564.20	Outward	564.55	Outward	564.64	Outward
Inner	MH8	561.94		562.05		562.94		564.43		565.05		565.45	
Outer	River South	564.73	Inward	564.64	Inward	564.16	Inward	564.60	Inward	565.04	Inward	565.14	Inward
Inner	MH12	560.14		560.48		560.88		562.06		562.79		563.25	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/30/2016		07/28/2016		08/24/2016		09/27/2016		10/25/2016		11/30/2016	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.21	Outward	565.24	Outward	565.22	Outward	565.48	Outward	564.76	Outward	563.73 (1)	Outward
Inner	MH2	567.09		567.28		567.40		567.56		567.57		567.37	
Outer	River North	565.21	Inward	565.24	Inward	565.22	Inward	565.48	Inward	564.76	Inward	563.73 (1)	Inward
Inner	MH6	561.03		561.01		561.12		561.30		561.25		561.11	
Outer	River Middle	565.09	Outward	565.05	Outward	565.12	Outward	565.38	Outward	564.60	Outward	563.86	Outward
Inner	MH8	565.65		565.79		566.77		566.15		566.08		565.95	
Outer	River South	565.49	Inward	565.48	Inward	565.57	Inward	565.84	Inward	565.19	Inward	564.34	Inward
Inner	MH12	563.62		563.83		563.95		564.14		564.13		564.07	

		12/28/2016		01/31/2017		02/28/2017		03/31/2017		04/27/2017		05/31/2017	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	563.75 (1)	Outward	563.53 (1)	Outward	563.95 (1)	Outward	564.10 (1)	Outward	564.91	Outward	565.56	Outward
Inner	MH2	567.41		567.41		567.06		567.37		568.05		568.17	
Outer	River North	563.75 (1)	Inward	563.53 (1)	Inward	563.95 (1)	Inward	564.10 (1)	Inward	564.91	Inward	565.56	Inward
Inner	MH6	560.85		560.72		560.36		561.11		561.53		561.73	
Outer	River Middle	563.88	Outward	563.66	Outward	564.08	Outward	564.23	Outward	564.76	Outward	565.29	Outward
Inner	MH8	565.60		565.46		565.23		565.58		566.36		566.53	
Outer	River South	564.45	Inward	564.24	Inward	564.57	Inward	564.96	Inward	565.24	Inward	565.66	Inward
Inner	MH12	563.68		563.44		563.15		563.68		564.40		564.57	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		06/27/2017		07/26/2017		08/29/2017		09/25/2017		10/24/2017		11/27/2017	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.62	Outward	565.42	Outward	565.19	Outward	565.22	Outward	565.37	Outward	564.55	Outward
Inner	MH2	567.87		567.85		567.98		567.81		567.89		567.95	
Outer	River North	565.62	Inward	565.42	Inward	565.19	Inward	565.22	Inward	565.37	Inward	564.55	Inward
Inner	MH6	561.47		561.34		561.52		561.50		561.49		561.59	
Outer	River Middle	565.50	Outward	565.23	Outward	565.04	Outward	565.06	Outward	565.25	Outward	564.40	Outward
Inner	MH8	566.29		566.19		566.44		566.37		566.35		566.45	
Outer	River South	565.93	Inward	565.69	Inward	565.49	Inward	565.50	Inward	565.73	Inward	564.91	Inward
Inner	MH12	564.25		564.24		564.42		564.37		564.37		564.62	

		12/21/2017		01/31/2018		02/26/2018		03/23/2018		04/27/2018		05/23/2018	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	563.96 [1]	Outward	565.09	Outward	564.86	Outward	564.86	Outward	565.30	Outward	565.41	Outward
Inner	MH2	567.87		568.03		568.36		568.25		568.56		568.28	
Outer	River North	563.96 [1]	Inward	565.09	Inward	564.86	Inward	564.86	Inward	565.30	Inward	565.41	Inward
Inner	MH6	561.45		561.64		561.98		561.11		562.20		561.92	
Outer	River Middle	564.09	Outward	564.59	Outward	564.69	Outward	564.62	Outward	565.09	Outward	565.19	Outward
Inner	MH8	566.32		566.48		566.85		566.70		567.09		566.76	
Outer	River South	564.63	Inward	565.27	Inward	565.14	Inward	565.12	Inward	565.57	Inward	565.61	Inward
Inner	MH12	564.47		564.61		564.04		563.95		565.35		564.98	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		06/21/2018		07/25/2018		08/27/2018		09/21/2018		10/31/2018		11/21/2018	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.29	Outward	565.51	Outward	565.25	Outward	565.30	Outward	565.20	Outward	565.52	Outward
Inner	MH2	568.21		568.14		568.16		568.06		567.93		568.10	
Outer	River North	565.29	Inward	565.51	Inward	565.25	Inward	565.30	Inward	565.20	Inward	565.52	Inward
Inner	MH6	561.91		561.85		561.78		561.71		561.45		561.72	
Outer	River Middle	565.13	Outward	565.40	Outward	565.08	Outward	565.13	Outward	564.99	Outward	565.73 (2)	Outward
Inner	MH8	566.69		566.55		566.63		566.54		566.26		566.55	
Outer	River South	565.58	Inward	565.85	Inward	565.56	Inward	565.65	Inward	565.54	Inward	565.98	Inward
Inner	MH12	564.88		564.70		564.68		564.63		564.48		564.83	

		12/20/2018		01/28/2019		02/28/2019		03/26/2019		04/26/2019		05/29/2019	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.16 (1)	Outward	565.30	Outward	NM	NC	564.95	Outward	565.71	Outward	565.42	Outward
Inner	MH2	568.35		568.38		568.33		568.15		568.56		568.71	
Outer	River North	564.03 (1)	Inward	565.30	Inward	NM	NC	564.95	Inward	565.71	Inward	565.42	Inward
Inner	MH6	561.99		562.06		561.94		561.77		562.30		562.49	
Outer	River Middle	564.29	Outward	565.06 (2)	Outward	NM	NC	564.72	Outward	565.48	Outward	565.20	Outward
Inner	MH8	566.86		566.89		566.76		566.58		566.96		567.30	
Outer	River South	564.82	Outward	565.31	Inward	NM	NC	565.08	Inward	566.06	Inward	565.73	Inward
Inner	MH12	565.16		565.17		565.15		564.95		565.48		565.58	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/26/2019		7/24/2019		8/28/2019		9/25/2019		10/30/2019		11/26/2019	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	566.11	Outward	565.58	Outward	565.44	Outward	565.47	Outward	565.04	Outward	564.82	Outward
Inner	MH2	568.68		568.45		568.32		568.31		568.37		568.32	
Outer	River North	566.11	Inward	565.58	Inward	565.44	Inward	565.47	Inward	565.04	Inward	564.82	Inward
Inner	MH6	562.39		562.12		561.99		561.93		561.96		562.00	
Outer	River Middle	565.89	Outward	565.38	Outward	565.28	Outward	565.27	Outward	564.79	Outward	564.58	Outward
Inner	MH8	567.16		566.89		566.76		566.68		566.74		566.81	
Outer	River South	566.44	Inward	565.82	Inward	565.78	Inward	565.78	Inward	565.37	Inward	565.25	Inward
Inner	MH12	565.41		565.16		564.98		564.91		564.94		565.15	

		12/23/2019		1/29/2020		2/26/2020		3/25/2020		5/11/2020		5/26/2020	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.94	Outward	565.04	Outward	564.65	Outward	565.27	Outward	565.60	Outward	565.82	Outward
Inner	MH2	568.54		568.86		568.75		568.84		568.70		568.73	
Outer	River North	564.94	Inward	565.04	Inward	564.65	Inward	565.27	Inward	565.60	Inward	565.82	Inward
Inner	MH6	562.27		562.54		562.42		562.51		562.44		562.41	
Outer	River Middle	564.59	Outward	564.72	Outward	564.85 (2)	Outward	564.85	Outward	565.29	Outward	565.60	Outward
Inner	MH8	567.10		567.38		567.26		567.37		566.97		567.19	
Outer	River South	565.23	Outward	565.35	Outward	565.10	Outward	565.43	Outward	566.01	Inward	566.10	Inward
Inner	MH12	565.46		565.80		565.68		565.79		565.69		565.56	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/29/2020		7/28/2020		8/26/2020		9/29/2020		10/28/20		11/26/2020	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.60	Outward	565.61	Inward	565.62	Inward	565.51	Inward	565.31	Inward	564.60	Inward
Inner	MH2	566.65		560.96		559.81		561.02		560.82		561.12	
Outer	River North	565.60	Inward	565.61	Inward	565.62	Inward	565.51	Inward	565.31	Inward	564.60	Inward
Inner	MH6	561.64		560.30		559.61		558.84		557.44		556.31	
Outer	River Middle	565.37	Outward	565.37	Outward	565.39	Outward	565.25	Inward	564.99	Inward	564.24	Inward
Inner	MH8	567.17		566.76		565.98		564.51		562.54		559.28	
Outer	River South	565.88	Inward	565.87	Inward	565.94	Inward	565.87	Inward	565.57	Inward	564.90	Inward
Inner	MH12	565.44		565.15		564.48		563.77		563.19		562.68	

		12/22/20		1/28/2021		2/24/2021		3/31/2021		4/28/2021		5/25/2021	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.79	Inward	564.71	Inward	563.87 (1)	Inward	564.79	Inward	565.04	Inward	565.22	Inward
Inner	MH2	560.67		561.30		561.39		560.70		561.00		561.41	
Outer	River North	564.79	Inward	564.71	Inward	563.87 (1)	Inward	564.79	Inward	565.04	Inward	565.22	Inward
Inner	MH6	556.45		557.71		556.37		556.77		557.14		557.34	
Outer	River Middle	564.37	Inward	564.28	Inward	564.00	Inward	564.42	Inward	564.71	Inward	564.86	Inward
Inner	MH8	558.79		560.33		559.05		559.45		559.19		559.75	
Outer	River South	565.08	Inward	564.53 (4)	Inward	564.25 (4)	Inward	565.01	Inward	564.94	Inward	565.51	Inward
Inner	MH12	562.79		563.14		562.68		562.88		562.80		562.68	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/30/2021		7/28/2021		8/30/2021		9/30/2021		10/25/21		11/30/21	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.31	Inward	565.44	Inward	565.17	Inward	565.12	Inward	564.51[1]	Inward	564.72	Inward
Inner	MH2	560.10		561.36		561.36		559.82		561.37		559.97	
Outer	River North	565.31	Inward	565.44	Inward	565.17	Inward	565.12	Inward	564.51[1]	Inward	564.72	Inward
Inner	MH6	557.25		557.54		557.37		557.51		557.20		557.30	
Outer	River Middle	565.00	Inward	565.13	Inward	564.97	Inward	564.77	Inward	564.64	Inward	564.27	Inward
Inner	MH8	559.28		561.37		560.38		560.13		560.38		560.71	
Outer	River South	565.62	Inward	565.72	Inward	565.59	Inward	565.36	Inward	565.27	Inward	564.86	Inward
Inner	MH12	562.26		562.75		562.44		562.55		562.96		563.42	

		12/22/21		1/28/2022		2/28/2022		3/30/2022		4/29/2022		5/23/2022	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.38	Inward	[5]	[5]	564.68	Inward	564.54	Inward	564.70	Inward	564.79	Inward
Inner	MH2	560.62		559.92		560.15		559.99		561.34		561.30	
Outer	River North	565.38	Inward	[5]	[5]	564.68	Inward	564.54	Inward	564.70	Inward	564.79	Inward
Inner	MH6	557.34		557.02		558.16		558.37		558.01		558.23	
Outer	River Middle	[5]	[5]	[5]	[5]	564.35	Inward	564.30	Inward	564.38	Inward	564.38	Inward
Inner	MH8	561.85		559.84		563.86		564.14		563.09		563.25	
Outer	River South	[5]	[5]	[5] [3]	[5]	565.00	Inward	564.86	Outward	564.92	Inward	565.44	Inward
Inner	MH12	563.49		563.19		563.79		564.88		563.70		563.49	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		7/5/2022		7/28/2022		8/31/2022		9/28/2022		11/01/22		11/28/22	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	565.09	Outward	565.28	Inward	565.24	Inward	564.80	Inward	565.34	Inward	564.63	Inward
Inner	MH2	566.18		560.19		561.45		560.20		561.31		560.18	
Outer	River North	565.09	Inward	565.28	Inward	565.24	Inward	564.80	Inward	565.34	Inward	564.63	Inward
Inner	MH6	559.87		558.32		557.83		557.92		557.60		558.14	
Outer	River Middle	564.77	Inward	565.01	Inward	564.96	Inward	564.55	Inward	564.30	Inward	563.73	Inward
Inner	MH8	561.25		560.30		558.95		560.34		559.71		559.97	
Outer	River South	565.38	Inward	565.58	Inward	565.48	Inward	565.15	Inward	564.63	Inward	564.47	Inward
Inner	MH12	563.11		562.95		562.56		562.38		562.88		563.32	

		12/30/22		1/27/2023		2/24/2023		3/31/2023		4/28/2023		5/30/2023	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.93	Inward	564.68	Inward	(5)	(5)	564.69	Inward	564.99	Inward	565.04	Inward
Inner	MH2	560.80		560.89		562.11		561.06		560.61		560.69	
Outer	River North	564.93	Inward	564.68	Inward	(5)	(5)	564.69	Inward	564.99	Inward	565.04	Inward
Inner	MH6	559.63		561.67		561.83		561.68		561.49		561.13	
Outer	River Middle	564.64	Inward	564.37	Inward	(5)	(5)	564.30	Outward	564.70	Outward	564.76	Outward
Inner	MH8	561.34		564.09		563.86		566.39		566.12		565.48	
Outer	River South	564.84	Inward	564.74	Inward	(5)	(5)	564.63	Outward	565.29	Inward	565.30	Inward
Inner	MH12	563.68		564.17		563.87		564.84		564.73		565.26	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/30/2023		7/28/2023		8/25/2023		9/22/2023		10/30/23		11/30/23	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.82	Inward	565.25	Inward	565.06	Inward	564.95	Inward	564.09	Inward	564.85	Inward
Inner	MH2	560.85		560.07		561.21		561.39		561.78		560.07	
Outer	River North	564.82	Inward	565.25	Inward	565.06	Inward	564.95	Inward	564.09	Inward	564.85	Inward
Inner	MH6	560.65		560.11		559.81		559.29		558.40		557.93	
Outer	River Middle	564.54	Outward	564.94	Inward	564.75	Inward	564.58	Inward	564.36	Inward	564.18	Inward
Inner	MH8	564.77		563.35		563.69		562.73		559.56		559.06	
Outer	River South	565.15	Inward	565.50	Inward	565.21	Inward	565.19	Inward	564.93	Inward	564.51	Inward
Inner	MH12	563.86		563.74		563.76		563.62		563.06		562.83	

		12/15/23		1/26/2024		2/23/2024		3/29/2024		4/25/2024		5/31/2024	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.11	Inward	564.95	Inward	564.45	Inward	564.60	Inward	564.78	Inward	565.14	Inward
Inner	MH2	559.97		560.00		560.81		561.39		560.13		561.18	
Outer	River North	564.11	Inward	564.95	Inward	564.45	Inward	564.60	Inward	564.78	Inward	565.14	Inward
Inner	MH6	558.60		560.39		561.08		560.84		561.55		561.33	
Outer	River Middle	564.18	Inward	565.18	Inward	564.11	Outward	564.25	Outward	564.46	Outward	564.87	Outward
Inner	MH8	558.75		564.62		565.00		565.06		565.75		565.30	
Outer	River South	564.54	Inward	565.11	Inward	564.64	Inward	564.81	Inward	565.09	Inward	565.49	Inward
Inner	MH12	562.70		564.10		564.28		564.08		564.66		564.15	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/28/2024		7/26/2024		8/30/2024		9/27/2024		10/25/2024		11/22/2024	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Outer	River North	565.07	Inward	565.18	Inward	565.06	Inward	566.80	Inward	564.71	Inward	565.62	Inward
Inner	MH2	560.03		561.41		560.66		561.38		562.29		561.35	
Outer	River North	565.07	Inward	565.18	Inward	565.06	Inward	566.80	Inward	564.71	Inward	565.62	Inward
Inner	MH6	561.33		561.20		560.67		560.19		559.13		557.78	
Outer	River Middle	564.80	Outward	564.82	Outward	564.83	Inward	564.24	Outward	564.47	Inward	564.43	Inward
Inner	MH8	565.44		565.59		564.35		564.34		561.02		559.25	
Outer	River South	565.35	Inward	565.38	Inward	565.38	Inward	564.83	Inward	565.06	Inward	564.46	Inward
Inner	MH12	564.13		564.04		563.74		563.61		563.27		562.95	

Monitoring Location		12/20/24		1/31/2025		2/28/2025		3/28/2025		4/28/2025		5/30/2025	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Outer	River North	564.45	Inward	565.59	Inward	564.43	Inward	564.60	Inward	564.74	Inward	564.95	Inward
Inner	MH2	560.96		562.01		561.73		560.19		560.25		560.18	
Outer	River North	564.45	Inward	565.59	Inward	564.43	Inward	564.60	Inward	564.74	Inward	564.95	Inward
Inner	MH6	557.85		557.88		557.80		559.50		559.55		559.73	
Outer	River Middle	564.28	Inward	564.16	Inward	564.21	Inward	564.19	Inward	564.24	Inward	564.67	Inward
Inner	MH8	559.12		559.94		559.60		561.50		563.28		562.55	
Outer	River South	563.16	Inward	564.07	Inward	564.54	Inward	564.17	Inward	564.65	Inward	565.26	Inward
Inner	MH12	562.97		563.31		563.26		563.80		563.84		563.75	

Table 2.3

Summary of Horizontal Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

		6/27/2025		7/25/2025		8/29/2025		9/29/2025		10/29/2025		11/26/2025	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.83	Inward	564.86	Inward	564.75	Inward	564.67	Inward	564.65	Inward	564.72	Inward
Inner	MH2	560.19		560.08		560.44		561.33		560.71		560.93	
Outer	River North	564.83	Inward	564.86	Inward	564.75	Inward	564.67	Inward	564.65	Inward	564.72	Inward
Inner	MH6	559.83		559.78		559.53		559.54		559.71		559.51	
Outer	River Middle	564.53	Inward	564.51	Inward	564.48	Inward	564.18	Inward	564.19	Inward	564.20	Inward
Inner	MH8	562.37		561.82		560.43		559.92		560.19		560.22	
Outer	River South	565.11	Inward	565.17	Inward	565.06	Inward	564.76	Inward	564.75	Inward	564.07	Inward
Inner	MH12	563.48		563.23		562.80		562.47		562.37		562.77	

		12/19/25		2/3/2026		2/26/2026		3/27/2026		4/30/2026		5/27/2026	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Monitoring Location													
Outer	River North	564.83	Inward	566.03	Inward	562.78	Inward	564.85	Inward	564.80	Inward	564.80	Inward
Inner	MH2	560.56		560.98		561.13		560.80		561.47		563.07	
Outer	River North	564.83	Inward	566.03	Inward	562.78	Inward	564.85	Inward	564.80	Inward	564.80	Inward
Inner	MH6	559.71		560.28		560.41		561.58		562.30		562.33	
Outer	River Middle	564.57	Inward	565.56	NC	562.91	Inward	564.58	Outward	564.43	Outward	564.52	Outward
Inner	MH8	560.32		NM		560.38		566.52		567.77		567.17	
Outer	River South	564.79	Inward	564.35	Inward	564.38	Inward	564.88	Outward	565.06	Outward	565.06	Outward
Inner	MH12	563.47		563.77		564.02		564.99		565.97		565.57	

Notes:
(1) River level too low to obtain a measurement. Water level shown is River Middle water level minus 0.13 feet.
(2) River level too low to obtain a measurement. Water level shown is River South Water level minus 0.25 feet.
(3) River level too low to obtain a measurement. Lowest recorded level (i.e., 563.92) since start of system operation used.
(4) River level too low to obtain a measurement. Water level shown is River Middle water level plus 0.25 feet.
(5) River levels not measured due to ice building up
NM - Not Measured
NC - Not Calculated

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/27/2013		07/24/2013		08/22/2013		09/30/2013		10/30/2013		11/27/2013	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.69	Upward	560.60	Upward	560.40	Upward	560.68	Upward	560.63	Upward	560.33	Upward
Lower	MW-6	564.59		564.52		564.24		564.28		564.64		564.52	
Upper	MH8	562.69	Upward	562.95	Upward	562.41	Upward	562.40	Upward	562.79	Upward	562.35	Upward
Lower	MW-7	562.86		563.28		562.46		562.48		562.98		562.40	
Upper	MH11	563.08	Upward	563.04	Upward	562.87	Upward	562.73	Upward	561.96	Upward	563.08	Upward
Lower	MW-8	563.61		563.56		563.37		563.23		563.53		563.58	
Average [1]		565.33	Upward	565.06	Upward	564.80	Upward	564.71	Upward	565.14	Upward	565.19	Upward
Lower	MW-9	565.66		565.47		565.19		565.05		565.50		565.47	

Monitoring Location		12/31/2013		01/30/2014		2/26/2014		3/28/2014		4/25/2014		5/29/2014	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	561.39	Upward	559.88	Upward	570.48	Downward	559.36	Upward	560.21	Upward	559.12	Upward
Lower	MW-6	564.74		564.14		565.29		564.01		564.74		564.71	
Upper	MH8	562.86	Upward	562.41	Downward	562.81	Downward	562.21	Downward	563.03	Downward	563.20	Upward
Lower	MW-7	563.09		562.40		562.78		562.01		562.95		563.21	
Upper	MH11	563.53	Upward	563.40	Upward	563.28	Upward	563.58	Upward	563.90	Upward	564.01	Upward
Lower	MW-8	564.06		563.95		563.83		564.10		564.44		564.37	
Average [1]		565.42	Upward	565.18	Upward	565.22	Upward	565.61	Upward	565.87	Upward	565.71	Upward
Lower	MW-9	565.76		565.52		565.46		565.93		566.12		565.77	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/25/2014		07/29/2014		08/26/2014		09/30/2014		10/29/2014		11/25/2014	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	560.62	Upward	560.42	Upward	561.12	Upward	560.65	Upward	559.77	Upward	560.70	Upward
Lower	MW-6	564.46		564.28		564.26		564.07		564.09		563.89	
Upper	MH8	562.88	Upward	562.72	Upward	562.58	Downward	562.51	Downward	562.54	Downward	562.09	Downward
Lower	MW-7	562.94		562.84		562.49		562.36		562.35		561.92	
Upper	MH11	563.53	Upward	563.41	Upward	563.11	Upward	562.89	Upward	562.78	Upward	562.71	Upward
Lower	MW-8	564.03		563.75		563.61		563.31		563.23		563.18	
Average [1]		565.33	Upward	564.94	Upward	564.91	Upward	564.67	Upward	564.54	Upward	564.56	Upward
Lower	MW-9	565.60		565.21		565.20		564.89		564.77		564.76	

Monitoring Location		12/30/2014		01/28/2015		2/24/2015		3/25/2015		4/23/2015		5/29/2015	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	571.05	Downward	565.06	Downward	565.39	Downward	560.93	Upward	560.48	Upward	561.40	Upward
Lower	MW-6	564.53		564.82		565.18		565.07		565.89		564.58	
Upper	MH8	562.31	Downward	563.96	Upward	NM	NA	563.76	Upward	564.85	Upward	563.26	Upward
Lower	MW-7	562.20		564.72		565.17		564.14		565.34		563.59	
Upper	MH11	562.98	Upward	564.19	Upward	NM	NA	563.88	Upward	564.86	Upward	563.36	Upward
Lower	MW-8	563.43		564.70		565.15		564.44		565.41		563.93	
Average [1]		564.86	Upward	565.03	Downward	NM	NA	NM	NA	566.11	Upward	565.30	Upward
Lower	MW-9	565.13		564.26		565.41		566.11		566.41		565.56	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/24/2015		07/28/2015		08/28/2015		09/25/2015		10/30/2015		11/30/2015	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	560.99	Upward	559.51	Upward	559.38	Upward	559.57	Upward	560.63	Upward	560.10	Upward
Lower	MW-6	564.62		564.53		564.29		564.47		564.31		564.23	
Upper	MH8	562.96	Upward	562.60	Upward	562.46	Downward	562.53	Upward	562.24	Upward	561.85	Downward
Lower	MW-7	563.10		562.76		562.41		562.55		562.34		561.80	
Upper	MH11	563.33	Upward	563.27	Upward	563.09	Upward	563.20	Upward	562.82	Upward	562.52	Upward
Lower	MW-8	563.87		563.84		563.60		563.58		563.34		563.03	
Average [1]		565.26	Upward	565.14	Upward	564.86	Upward	564.91	Upward	563.80	Upward	562.20	Upward
Lower	MW-9	565.54		565.38		565.14		565.16		564.25		563.61	

Monitoring Location		12/30/2015		01/28/2016		2/23/2016		3/31/2016		4/28/2016		5/26/2016	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	560.89	Upward	560.05	Upward	560.75	Upward	560.53	Upward	561.19	Upward	559.81	Upward
Lower	MW-6	564.18		564.48		564.69		565.97		566.08		566.38	
Upper	MH8	561.94	Upward	562.05	Downward	562.94	Upward	564.43	Upward	565.05	Upward	565.45	Upward
Lower	MW-7	562.35		561.98		563.51		564.91		565.69		566.20	
Upper	MH11	562.22	Upward	562.68	Upward	563.03	Upward	564.19	Upward	564.97	Downward	565.42	Downward
Lower	MW-8	562.79		563.18		563.54		564.76		564.49		565.14	
Average [1]		562.10	Upward	562.00	Upward	562.34	Upward	561.44	Upward	562.38	Upward	561.85	Upward
Lower	MW-9	563.10		563.44		563.55		564.54		565.27		565.61	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/30/2016		07/28/2016		08/24/2016		09/27/2016		10/25/2016		11/30/2016	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	561.03	Upward	559.17	Upward	559.53	Upward	561.19	Upward	565.12	Upward	561.33	Upward
Lower	MW-6	565.18		566.67		566.81		566.98		566.97		564.39	
Upper	MH8	565.13	Upward	565.79	Upward	565.96	Upward	566.15	Upward	566.08	Upward	565.95	Upward
Lower	MW-7	566.44		566.61		566.67		566.94		566.84		566.75	
Upper	MH11	565.77	Upward	565.99	Upward	566.09	Upward	566.33	Upward	566.29	Upward	566.23	Upward
Lower	MW-8	566.30		566.55		566.62		566.84		566.85		566.74	
Average [1]		567.85	Downward	568.26	Downward	568.52	Downward	568.45	Downward	567.12	Downward	567.90	Downward
Lower	MW-9	566.36		566.62		566.64		566.87		566.86		566.88	

Monitoring Location		12/28/2016		01/31/2017		02/28/2017		03/31/2017		04/27/2017		05/31/2017	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	561.39	Upward	560.44	Upward	560.62	Upward	559.48	Upward	560.59	Upward	559.79	Upward
Lower	MW-6	566.82		566.67		566.44		566.78		567.45		567.57	
Upper	MH8	565.60	Upward	565.46	Upward	565.23	Upward	565.58	Upward	566.36	Upward	566.53	Upward
Lower	MW-7	566.37		566.18		565.88		566.36		567.14		567.34	
Upper	MH11	565.75	Upward	565.58	Upward	565.32	Upward	565.82	Upward	566.59	Upward	566.88	Upward
Lower	MW-8	566.35		566.09		565.85		566.35		567.14		567.27	
Average [1]		561.74	Upward	561.80	Upward	561.25	Upward	562.16	Upward	562.85	Upward	563.20	Upward
Lower	MW-9	566.50		566.22		565.92		566.47		567.26		567.40	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/27/2017		07/26/2017		08/29/2017		09/25/2017		10/24/2017		11/27/2017	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.53	Upward	561.04	Upward	559.69	Upward	560.63	Upward	560.12	Upward	560.69	Upward
Lower	MW-6	567.28		567.25		567.37		567.24		567.32		567.37	
Upper	MH8	566.29	Upward	566.19	Upward	566.44	Upward	566.37	Upward	566.35	Upward	566.45	Upward
Lower	MW-7	567.03		566.96		567.21		567.21		567.12		567.17	
Upper	MH11	565.39	Upward	566.38	Upward	566.58	Upward	566.53	Upward	566.51	Upward	566.77	Upward
Lower	MW-8	566.94		566.90		567.12		567.06		567.08		567.34	
Average [1]		563.69	Upward	563.19	Upward	563.79	Upward	563.88	Upward	563.47	Upward	564.13	Upward
Lower	MW-9	567.02		567.05		567.23		567.05		567.12		567.41	

Monitoring Location		12/21/2017		01/31/2018		02/26/2018		03/23/2018		04/27/2018		05/23/2018	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	560.98	Upward	559.93	Upward	560.72	Upward	561.20	Upward	559.09	Upward	560.61	Upward
Lower	MW-6	567.27		567.48		567.73		567.61		567.92		567.68	
Upper	MH8	566.32	Upward	566.48	Upward	566.85	Upward	566.70	Upward	567.09	Upward	566.76	Upward
Lower	MW-7	567.08		567.36		567.65		567.48		567.86		567.57	
Upper	MH11	566.62	Upward	566.82	Upward	567.13	Upward	567.11	Upward	567.49	Upward	567.09	Upward
Lower	MW-8	567.19		567.46		567.71		567.63		568.00		567.66	
Average [1]		564.38	Upward	564.45	Upward	564.96	Upward	565.10	Upward	564.77	Upward	564.63	Upward
Lower	MW-9	567.30		567.60		567.81		567.79		568.21		567.95	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		06/11/2018		07/25/2018		08/27/2018		09/21/2018		10/31/2018		11/21/2018	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	555.80	Upward	558.78	Upward	560.13	Upward	559.41	Upward	559.80	Upward	559.70	Upward
Lower	MW-6	567.61		567.57		567.55		565.08		567.30		567.48	
Upper	MH8	566.69	Upward	566.55	Upward	566.63	Upward	566.54	Upward	566.26	Upward	566.55	Upward
Lower	MW-7	567.18		567.09		567.10		566.97		566.75		567.06	
Upper	MH11	567.05	Upward	566.87	Upward	566.85	Upward	566.80	Upward	566.63	Upward	566.98	Upward
Lower	MW-8	567.56		567.39		567.37		567.34		567.19		567.55	
Average [1]		564.70	Upward	565.13	Upward	565.18	Upward	564.96	Upward	565.62	Upward	566.28	Upward
Lower	MW-9	567.72		567.46		567.53		567.41		567.34		567.69	

Monitoring Location		12/20/2018		01/28/2019		02/28/2019		03/26/2019		04/26/2019		05/29/2019	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.91	Upward	560.2	Upward	559.05	Upward	560.19	Upward	558.73	Upward	559.20	Upward
Lower	MW-6	567.71		567.8		567.68		567.53		567.96		568.13	
Upper	MH8	566.86	Upward	566.89	Upward	566.76	Upward	566.58	Upward	566.96	Upward	567.30	Upward
Lower	MW-7	567.38		567.44		567.40		567.22		567.80		568.02	
Upper	MH11	567.30	Upward	567.32	Upward	567.29	Upward	567.08	Upward	567.62	Upward	567.78	Upward
Lower	MW-8	567.84		567.95		567.85		567.63		568.15		568.30	
Average [1]		567.77	Upward	567.82	Upward	567.87	Upward	567.63	Upward	568.08	Upward	568.17	Upward
Lower	MW-9	567.96		568.07		568.05		567.81		568.31		568.48	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/26/2019		7/24/2019		8/28/2019		9/25/2019		10/30/2019		11/26/2019	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	558.83	Upward	560.45	Upward	558.55	Upward	558.86	Upward	559.29	Upward	558.13	Upward
Lower	MW-6	568.04		567.82		567.73		567.69		567.74		567.71	
Upper	MH8	567.16	Upward	566.89	Upward	566.76	Upward	566.68	Upward	566.74	Upward	566.81	Upward
Lower	MW-7	567.93		567.69		567.55		567.48		567.52		567.64	
Upper	MH11	567.58	Upward	567.30	Upward	567.13	Upward	567.05	Upward	567.09	Upward	567.28	Upward
Lower	MW-8	568.09		567.82		567.66		567.56		567.61		567.80	
Average [1]		568.02	Upward	567.74	Upward	567.32	Upward	565.17	Upward	565.04	Upward	565.25	Upward
Lower	MW-9	568.28		567.95		567.73		567.63		567.71		567.93	

Monitoring Location		12/23/2019		1/29/2020		2/26/2020		3/25/2020		5/11/2020		5/26/2020	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.53	Upward	558.6	Upward	560.28	Upward	559.19	Upward	558.53	Upward	560.23	Upward
Lower	MW-6	567.94		568.23		568.13		568.22		567.97		568.08	
Upper	MH8	567.10	Upward	567.38	Upward	567.26	Upward	567.37	Upward	566.97	Upward	567.19	Upward
Lower	MW-7	567.92		568.2		568.06		568.20		568.08		567.66	
Upper	MH11	567.60	Upward	567.92	Upward	567.83	Upward	567.97	Upward	567.82	Upward	567.84	Upward
Lower	MW-8	568.09		568.43		568.36		568.45		568.32		568.16	
Average [1]		565.69	Upward	565.54	Upward	566.10	Upward	565.48	Upward	565.75	Upward	565.46	Upward
Lower	MW-9	568.25		568.58		568.50		568.65		568.52		568.37	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/29/2020		7/28/2020		8/26/2020		9/29/2020		10/28/2020		11/30/2020	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	565.40	Upward	560.07	Upward	558.13	Upward	560.12	Upward	559.89	Upward	560.29	Upward
Lower	MW-6	566.97		564.84		564.12		563.42		563.16		562.94	
Upper	MH8	567.17	Upward	566.76	Upward	565.98	Upward	564.51	Upward	562.54	Upward	559.28	Upward
Lower	MW-7	567.73		567.28		566.68		565.46		563.49		561.28	
Upper	MH11	567.60	Upward	567.30	Upward	566.68	Upward	565.90	Upward	565.34	Upward	564.79	Upward
Lower	MW-8	568.13		567.80		567.19		566.33		565.88		565.30	
Average [1]		565.62	Upward	565.79	Upward	565.16	Upward	564.54	Upward	564.62	Upward	563.73	Upward
Lower	MW-9	568.21		567.99		567.40		566.66		566.12		565.74	

Monitoring Location		12/22/2020		1/28/2021		2/24/2021		3/31/2021		4/28/2021		5/25/2021	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.88	Upward	560.37	Upward	560.52	Upward	559.82	Upward	560.02	Upward	560.48	Upward
Lower	MW-6	562.91		562.88		562.68		562.76		562.81		562.77	
Upper	MH8	558.79	Upward	560.33	Upward	559.05	Upward	559.45	Upward	559.19	Upward	559.75	Upward
Lower	MW-7	561.40		561.27		561.14		561.65		561.28		561.29	
Upper	MH11	564.95	Upward	565.25	Upward	564.82	Upward	564.97	Upward	564.90	Upward	564.77	Upward
Lower	MW-8	565.45		565.78		565.33		565.54		565.48		565.71	
Average [1]		563.67	Upward	563.92	Upward	563.68	Upward	564.04	Upward	564.35	Upward	563.78	Upward
Lower	MW-9	565.84		566.19		565.74		565.92		565.86		565.75	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/30/2021		7/28/2021		8/30/2021		9/30/2021		10/25/21		11/30/21	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	558.04	Upward	560.32	Upward	560.46	Upward	557.91	Upward	560.41	Upward	558.52	Upward
Lower	MW-6	565.59		562.69		562.59		562.72		562.76		562.84	
Upper	MH8	559.28	Upward	561.37	Upward	560.38	Upward	560.13	Upward	560.38	Upward	560.71	Upward
Lower	MW-7	560.85		562.42		560.95		561.50		561.86		562.08	
Upper	MH11	564.35	Upward	565.02	Upward	564.56	Upward	564.72	Upward	564.98	Upward	565.53	Upward
Lower	MW-8	564.89		565.46		565.08		565.28		565.59		566.15	
Average [1]		563.32	Upward	563.71	Upward	563.89	Upward	563.64	Upward	564.38	Upward	564.58	Upward
Lower	MW-9	565.40		565.88		565.54		565.71		566.02		566.55	

Monitoring Location		12/22/2021		1/28/2022		2/28/2022		3/30/2022		4/29/2022		5/23/2022	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.65	Upward	558.8	Upward	558.56	Upward	558.43	Upward	560.41	Upward	560.32	Upward
Lower	MW-6	562.96		562.82		563.36		563.44		563.22		563.10	
Upper	MH8	561.85	Upward	559.84	Upward	563.86	Upward	564.14	Upward	563.09	Upward	563.25	Upward
Lower	MW-7	562.69		561.45		564.68		565.05		563.78		563.99	
Upper	MH11	565.63	Upward	565.32	Upward	565.93	Upward	566.02	Upward	565.86	Upward	565.65	Upward
Lower	MW-8	566.15		565.83		566.51		566.52		566.38		566.37	
Average [1]		564.44	Upward	564.78	Upward	565.20	Upward	564.76	Upward	564.75	Upward	564.61	Upward
Lower	MW-9	566.57		566.24		566.93		567.00		566.84		566.60	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		7/5/2022		7/28/2022		8/31/2022		9/28/2022		11/01/22		11/28/22	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	565.21	Upward	559.80	Upward	560.45	Upward	558.93	Upward	560.68	Upward	558.59	Upward
Lower	MW-6	565.57		563.76		564.95		562.98		563.02		563.47	
Upper	MH8	561.25	Upward	560.30	Upward	558.95	Upward	560.34	Upward	559.71	Upward	559.97	Upward
Lower	MW-7	562.42		562.71		560.85		561.26		561.42		561.37	
Upper	MH11	565.29	Upward	565.22	Upward	564.65	Upward	564.53	Upward	564.98	Upward	565.61	Upward
Lower	MW-8	565.80		565.44		565.21		565.00		565.80		565.93	
Average [1]		563.93	Upward	564.16	Upward	564.16	Upward	563.76	Upward	564.05	Upward	564.52	Upward
Lower	MW-9	566.13		566.58		565.92		565.52		565.82		566.28	

Monitoring Location		12/30/2022		1/27/2023		2/24/2023		3/31/2023		4/28/2023		5/30/2023	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.40	Upward	559.9	Upward	561.17	Upward	559.45	Upward	559.48	Upward	558.66	Upward
Lower	MW-6	565.39		567.54		567.64		567.34		567.07		566.77	
Upper	MH8	561.34	Upward	564.09	Upward	563.86	Upward	566.39	Upward	566.12	Upward	565.48	Upward
Lower	MW-7	562.74		565.5		565.16		566.89		566.91		566.45	
Upper	MH11	565.80	Upward	566.3	Upward	566.17	Upward	566.88	Upward	567.08	Upward	566.57	Upward
Lower	MW-8	566.32		566.74		566.54		567.43		567.35		566.94	
Average [1]		559.64	Upward	565.31	Upward	565.00	Upward	565.62	Upward	565.73	Upward	565.31	Upward
Lower	MW-9	566.70		567.32		566.77		567.62		567.69		567.26	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/30/2023		7/28/2023		8/25/2023		9/22/2023		10/30/23		11/30/23	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.70	Upward	557.96	Upward	559.93	Upward	560.40	Upward	559.93	Upward	558.43	Upward
Lower	MW-6	566.24		565.78		565.48		565.02		564.13		563.72	
Upper	MH8	564.77	Upward	563.35	Upward	563.69	Upward	562.73	Upward	559.56	Upward	559.06	Upward
Lower	MW-7	565.50		564.86		564.60		563.66		560.94		560.94	
Upper	MH11	566.20	Upward	566.04	Upward	566.08	Upward	565.91	Upward	565.41	Upward	564.90	Upward
Lower	MW-8	566.52		566.31		566.40		566.26		565.72		565.39	
Average [1]		563.43	Upward	564.69	Upward	565.06	Upward	564.54	Upward	564.45	Upward	564.31	Upward
Lower	MW-9	566.86		566.60		566.76		566.55		566.02		565.72	

Monitoring Location		12/15/2023		1/26/2024		2/23/2024		3/29/2024		4/25/2024		5/31/2024	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	558.13	Upward	557.91	Upward	558.98	Upward	559.46	Upward	558.16	Upward	560.06	Upward
Lower	MW-6	564.28		566.04		566.71		566.45		567.16		566.96	
Upper	MH8	558.75	Upward	564.62	Upward	565.00	Upward	565.06	Upward	565.75	Upward	565.30	Upward
Lower	MW-7	561.39		565.89		566.46		565.99		566.98		565.97	
Upper	MH11	565.40	Upward	566.16	Upward	566.42	Upward	566.34	Upward	567.01	Upward	566.53	Upward
Lower	MW-8	565.71		566.76		566.97		566.71		567.35		566.81	
Average [1]		563.91	Upward	564.99	Upward	565.07	Upward	565.02	Upward	565.43	Upward	565.23	Upward
Lower	MW-9	565.96		567.06		567.35		567.06		567.62		567.15	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/28/2024		7/26/2024		8/30/2024		9/27/2024		10/25/2024		22/11/204	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	560.28	Upward	560.55	Upward	558.97	Upward	559.90	Upward	561.39	Upward	560.60	Upward
Lower	MW-6	566.97		566.82		566.24		565.77		564.80		563.29	
Upper	MH8	565.44	Upward	565.59	Upward	564.35	Upward	564.34	Upward	561.02	Upward	559.25	Upward
Lower	MW-7	566.14		566.36		565.76		565.27		562.63		561.09	
Upper	MH11	566.41	Upward	566.30	Upward	565.93	Upward	565.90	Upward	565.56	Upward	565.31	Upward
Lower	MW-8	566.77		566.76		566.40		566.23		565.91		565.55	
Average [1]		564.94	Upward	565.11	Upward	564.41	Upward	564.01	Upward	564.75	Upward	564.47	Upward
Lower	MW-9	567.03		567.07		566.62		566.41		566.23		565.89	

Monitoring Location		12/20/2024		31/02/2025		2/28/2025		3/28/2025		4/28/2025		5/30/2025	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	559.06	Upward	560.66	Upward	560.45	Upward	558.64	Upward	558.62	Upward	558.11	Upward
Lower	MW-6	563.22		563.45		563.14		565.15		565.25		565.39	
Upper	MH8	559.12	Upward	559.94	Upward	559.60	Upward	561.50	Upward	563.28	Upward	562.55	Upward
Lower	MW-7	561.31		561.42		561.00		562.53		564.20		563.42	
Upper	MH11	565.31	Upward	565.6	Upward	565.60	Upward	566.11	Upward	566.12	Upward	566.08	Upward
Lower	MW-8	565.60		565.87		565.90		566.45		566.51		566.38	
Average [1]		563.70	Upward	564.18	Upward	563.98	Upward	564.75	Upward	565.05	Upward	564.31	Upward
Lower	MW-9	565.92		566.22		566.23		566.79		566.86		566.69	

Table 2.4

Summary of Vertical Gradients
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location		6/27/2025		7/25/2025		8/29/2025		9/29/2025		10/29/2025		26/11/2025	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	558.51	Upward	557.90	Upward	559.15	Upward	559.66	Upward	559.53	Upward	559.98	Upward
Lower	MW-6	565.47		565.40		565.20		565.15		565.35		565.20	
Upper	MH8	562.37	Upward	561.82	Upward	560.43	Upward	559.92	Upward	560.19	Upward	560.22	Upward
Lower	MW-7	563.17		562.73		561.37		560.97		561.23		561.37	
Upper	MH11	565.80	Upward	565.54	Upward	565.11	Upward	564.81	Upward	564.46	Upward	565.01	Upward
Lower	MW-8	566.18		565.88		565.57		565.12		565.03		565.49	
Average [1]		564.90	Upward	564.13	Upward	564.44	Upward	563.57	Upward	563.62	Upward	563.52	Upward
Lower	MW-9	566.50		566.20		565.83		565.58		565.49		565.89	

Monitoring Location		19/12/2025		3/02/2026		2/26/2026		3/27/2026		4/30/2026		5/27/2026	
		Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction	Water Level (ft amsl)	Gradient Direction
Upper	MH3	558.71	Upward	559.67	Upward	559.98	Upward	558.65	Upward	559.62	Upward	561.61	Upward
Lower	MW-6	565.40		566.00		566.07		567.30		568.07		568.00	
Upper	MH8	560.32	Upward	(2)	NC	560.38	Upward	566.52	Upward	567.77	Upward	567.17	Upward
Lower	MW-7	561.54		565.67		565.77		567.22		568.60		567.62	
Upper	MH11	566.00	Downward	(2)	NC	(2)	NC	567.31	Upward	568.31	Upward	567.88	Upward
Lower	MW-8	565.94		566.47		567.02		567.66		568.67		568.27	
Average [1]		564.15	Upward	(3)	NC	(3)	NC	565.61	Upward	566.17	Upward	565.45	Upward
Lower	MW-9	566.22		566.78		566.73		567.83		568.78		568.53	

Notes:

NA - Not Applicable.
NM - Not monitored.
NC - Not calculated
(1) - Distance weighted for MH14 (two thirds) and MH15 (one third).
(2) - Buried with snow.
(3) - Not Monitored - MH14 was buried with snow and could not be accessed.

Table 2.5

Groundwater Sampling Summary
Gratwick-Riverside Park Site
North Tonawanda, New York

LOCATIONS					
OGC1	MW-6				
OGC2	MW-7				
OGC3	MW-8				
OGC4	MW-9				
OGC5	OGC6				
OGC7	OGC8				
FREQUENCY					
Annual - MW-6, MW-8, MW-9, OGC-3, OGC-6, OGC-7					
Every Two Years (Even Years) - MW-7, OGC-1, OGC-2, OGC-4, OGC-5, OGC-8					
PARAMETERS					
Volatiles					
Acetone					Methylene Chloride
Benzene					Tetrachloroethene
2-Butanone					Toluene
Chlorobenzene					Trichloroethene
1,1-Dichloroethane					Vinyl Chloride
trans-1,2-Dichloroethene					Xylenes (Total)
Ethylbenzene					
Semi-Volatiles					
1,2-Dichlorobenzene					4-Methylphenol
1,4-Dichlorobenzene					Naphthalene
2,4-Dimethylphenol					Di-n-octylphthalate
2-Methylphenol					Phenol

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		MW-6										
Date		**05/29/14**	**05/27/16**	**05/23/18**	**05/29/19**	**05/11/20**	**08/16/21**	**04/28/22**	**04/28/23**	**04/25/24**	**04/28/25**	**05/01/26**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50			8.6J	11							
Benzene	1			**1.7**	**1.8**							
2-Butanone	50											
Chlorobenzene	5			**7.5**	**10**	**17 J**	0.77 J			0.97 J		
trans-1,2-Dichloroethene	5			**8.8**	**11**				**18**			
Ethylbenzene	5			0.54J								
Methylene Chloride	5											
Tetrachloroethene	5			3.4	**6.3**	**11 J**			**16**	0.66 J	0.36 J	
Toluene	5			**16**	**22**	**32**	0.75 J		1.8J	1.1		
Trichloroethene	5	1.0		**20**	**28**	**44**	0.78 J		**25**	1.4	0.99 J	
Vinyl Chloride	2				1.5						2.5	
Total Xylenes	5			1.6J	1.7 J							
Total VOCs		1.0	0	68.14	93.30	104	2.30	0	60.8	4.13	3.85	0
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3					**8.1 J**	**0.46 J**		2.7J	0.41 J	0.65 J	
1,4-Dichlorobenzene	3	2.9J	1.5J	**28J**	**73 J**	**140**	**6.4 J**		**51**	**7.5 J**	**5.3 J**	**3.2 J**
2,4-Dimethylphenol	50	1.0J	0.87J	36J	**59 J**	**92**	2.7 J		10	2.0 J	2.6 J	
2-Methylphenol	NL	1.1J	0.47J	31J	46 J	66	2.0 J		11	1.3 J	2.0 J	
4-Methylphenol	NL	1.0J		93	120 J	200	3.9 J		28	2.5 J	3.0 J	1.5 J
Naphthalene	10		2.0J									
Di-n-octyl phthalate	50											
Phenol	1	**4.4J**		**2300**	**2900**	**4700**			**610**	0.50 J	**5.4 J**	
Total SVOCs		10.4	4.84	2488	3198	5206.1	15.46	0	712.7	14.21	18.95	4.7
Notes:												
NL - Not listed												
8.8 - Bold number exceeds Class GA Level												
NS - Not Sampled												
J - Estimated												
Blank = Non-Detect												

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		**MW-7**										
Date	**Class GA Level**	**05/24/07**	**05/29/08**	**05/26/10**	**05/30/12**	**05/29/14**	**05/26/16**	**05/23/18**	**05/11/20**	**04/28/22**	**4/26/2024**	**5/1/2026**
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50	3.9J	3.3J/3.4J					ND/6.7J				
Benzene	1											
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5											
Ethylbenzene	5											
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5											
Trichloroethene	5											
Vinyl Chloride	2		0.64J/0.61J									
Total Xylenes	5											
Total VOCs		3.9	3.98	0	0	0	0	3.35	0	0	0	0
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50		0.4J/0.5J									
2-Methylphenol	NL	0.3J	0.5J/0.6J			0.65J	5.7J/6.1J	0.42J/1.6J	0.48J			
4-Methylphenol	NL											
Naphthalene	10											
Di-n-octyl phthalate	50											
Phenol	1											
Total SVOCs		0.3	1	0	0	0.65	5.9	1.01	0.48	0	0	0

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		MW-8										
Date		**05/26/16**	**05/31/17**	**05/23/18**	**05/29/19**	**05/11/20**	**04/28/21**	**04/28/22**	**04/28/23**	**4/26/2024**	**4/28/2025**	**4/30/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5										0.50 J	
Acetone	50				7.0J							30
Benzene	1			**2.6**	**1.5**		**2.8**		**3.4/3.2J**	**2.3/2.3**	**2.5**	**3.3**
2-Butanone	50											
Chlorobenzene	5			3.1	3.4		**6.1**	**7.1**	**8.2/7.9**	**6.0/6.3**	**6.4**	**6.8**
trans-1,2-Dichloroethene	5			**5.4**				4			1.2	
Ethylbenzene	5			2.9	1.7J		3.9		3.9J/3.7J	2.3/2.4	2.8	3.2 J
Methylene Chloride	5											
Tetrachloroethene	5			1.7	0.74J							
Toluene	5			3.7	1.8J		1		2.2J	ND/1.0 J	1	
Trichloroethene	5	**15**	**7.9J**	**9.8**	3.6	4J	2.2		3.2J/3.0J	1.3J/1.7J	1.4	2.9 J
Vinyl Chloride	2				**2.3**		**3.7**		**6.9/6.1**		2	
Total Xylenes	5			**5.1**	1.7J		1.8J				1.1 J	
Total VOCs		15	7.9	34.3	23.74	4	21.5	11.1	26.95	11.9/13.7	18.9	46.2
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3	1.4J			0.83J	0.91J	1.5J		1.8J/1.5J	0.97 J / 0.84 J	1.7 J	
1,4-Dichlorobenzene	3	**17**	**11J**	**8.8J**	**12**	**19**	**74**	**61**	**75/71**	**46/39**	**62**	**65 J**
2,4-Dimethylphenol	50	20	16J	11J	8.4J	4.5J	13	12J	19/17	9.8 J / 9.6 J	12	20 J
2-Methylphenol	NL	29	36J	30J	23	18	15	11J	16/15	12.0/11.0	15	21 J
4-Methylphenol	NL	28	28J	18J	12	7.9J	16	13J	13/12	6.9 J / 6.3 J	9.6 J	11 J
Naphthalene	10	0.98J							0.93J			
Di-n-octyl phthalate	50											
Phenol	1	**6.5J**		**12J**	**11**	**4.8J**	**1.9J**		0.87J	**2.7 J / 2.8 J**		**1.9 J**
Total SVOCs		102.88	91	79.8	67.2	55.11	121.4	97	122.45	78.37/69.54	100.3	118.9
Notes:												
NL - Not listed												
8.8 - Bold number exceeds Class GA Level												
NS - Not Sampled												
J - Estimated												
Blank = Non-Detect												

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		MW-9										
Date		**05/26/16**	**05/31/17**	**05/23/18**	**05/29/19**	**05/12/20**	**04/28/21**	**04/28/22**	**04/28/23**	**4/26/2024**	**4/28/2025**	**4/30/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50	15J	5.8		12		11			6.1 J	3.5 J / 3.5 J	
Benzene	1		0.62J	0.87J	0.84		0.78				0.64 J / 0.66 J	
2-Butanone	50											
Chlorobenzene	5		3.1	4.1	4.6	**6.9J / 7.3J**	**6.1**	**6.4**	**7.6**	**7.5**	**7.8 / 7.7**	**8.8**
trans-1,2-Dichloroethene	5			0.99J	1.1							
Ethylbenzene	5		1.1	1.4	1.5		1.3					
Methylene Chloride	5											
Tetrachloroethene	5		0.43J	0.47J	0.82J		0.50 J					
Toluene	5	4.4J		**6.3**	**7.1**	**9.4 / 9.0**	4.4	3.9J	3.4J	3.1	2.3 / 2.3	
Trichloroethene	5	2.6J	4.8	3.4	3.5	4.6 J / 4.9 J	2.3	1.9J		1.3 J	1.0 / 0.95 J	
Vinyl Chloride	2		**2.9**	**2.3**	**2.6**		1.7				**3.1 / 2.0**	
Total Xylenes	5		3.1	3.7	4.0		3.6			1.5 J	1.2 J / 1.2 J	
Total VOCs		22	21.85	23.5	38.06	21.05	31.68	12.2	11	19.5	19.54 / 18.31	8.8
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3	1.5J		1.8J	1.8J	1.7J / 2.1J	1.9 J	1.2J		1.0 J	1.5 J / 1.6 J	1.5 J
1,4-Dichlorobenzene	3	2.6J		2.1J	1.9J	2.1J / 2.3J	**3.8 J**	2.9J		2.8 J	**3.5 J / 3.1 J**	**4.4 J**
2,4-Dimethylphenol	50	**130J**	**140**	**220**	**210**	**200 / 240**	**120**	**56**	41J	38	26 / 25	31 J
2-Methylphenol	NL	16	20J	24	24	21 / 24	14	9.5J	7.4J	6.7 J	5.8 J / 5.7 J	7.3 J
4-Methylphenol	NL	340	340	640	570	520 / 600	260	170	120	88	58 / 52	100
Naphthalene	10	1.2J				ND / 0.77J						0.35 J
Di-n-octyl phthalate	50											
Phenol	1	**26**	**37J**	**38**	**40**	**22 / 26**	**26**	**20**	**12J**	**10**	**8.6 J / 7.7 J**	**16**
Total SVOCs		517.3	537	925.9	847.7	830.99	425.7	259.6	180.4	146.5	103.4 / 95.1	160.55

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		**OGC-1**										
Date	**Class GA Level**	**05/24/07**	**05/29/08**	**05/26/10**	**05/30/12**	**05/29/14**	**05/27/16**	**5/23/2018**	**05/11/20**	**04/28/22**	**4/25/2024**	**5/1/2026**
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50							7.4J				
Benzene	1											
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5											
Ethylbenzene	5											
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5											
Trichloroethene	5	0.53J	4.2									
Vinyl Chloride	2											
Total Xylenes	5											
Total VOCs		0.53	4.2	0	0	0	0	7.4	0	0	0	0
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50											
2-Methylphenol	NL											
4-Methylphenol	NL		0.4J		0.46J							
Naphthalene	10		0.5J									
Di-n-octyl phthalate	50											
Phenol	1				0.97J		0.43J		0.39J			
Total SVOCs		0	0.9	0	1.43	0	0.43	0	0.39	0	0	0

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		OGC-2										
Date		**05/25/07**	**05/29/08**	**05/26/10**	**05/30/12**	**05/29/14**	**05/26/16**	**05/23/18**	**05/11/20**	**04/28/22**	**4/26/2024**	**5/1/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50											4.8 J / 5.7 J
Benzene	1											
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5											
Ethylbenzene	5											
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5											
Trichloroethene	5											
Vinyl Chloride	2											
Total Xylenes	5											
Total VOCs		0	0		0	0	0	0	0	0	0	5.3
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50											
2-Methylphenol	NL											
4-Methylphenol	NL					0.79J						
Naphthalene	10											
Di-n-octyl phthalate	50											
Phenol	1											
Total SVOCs		0	0	0	0	0.79	0	0	0	0	0	0
Notes:												
NL - Not listed												
8.8 - Bold number exceeds Class GA Level												
NS - Not Sampled												
J - Estimated												
Blank = Non-Detect												

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		**OGC-3**										
Date	**Class GA Level**	**05/26/16**	**05/31/17**	**05/23/18**	**05/29/19**	**05/11/20**	**04/28/21**	**04/28/22**	**04/28/23**	**4/25/2024**	**4/28/2025**	**5/30/2026**
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50	3.3J		18J	9.1				3.9J			3.2 J
Benzene	1	0.62J	0.50J	0.87J	0.54J	0.47J	0.47J/0.45J		0.43J		0.44 J	
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5			0.22J								
Ethylbenzene	5			0.38J								
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5	0.95J	0.70J	1.3	0.79J	0.61J	0.59J/0.57J	0.58J	0.53J		0.62 J	
Trichloroethene	5	1.6	1.4	1.6	1.1	1.1	1.2/1.1	0.84J	0.81J	0.73 J	0.79 J	0.60 J
Vinyl Chloride	2											
Total Xylenes	5			1.1J								
Total VOCs		6.47	2.6	23.47	11.53	2.18	2.19	1.42	5.67	0.73	1.85	3.8
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3	0.52J									0.59 J	
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50	4.9J	4.5J		5.8J	5.9J	4.7J/4.4J		4.3J	3.4 J	5.4 J	6.4 J
2-Methylphenol	NL	24	23J	20J	21	20	17/16	12J	13	8.2 J	15	18 J
4-Methylphenol	NL	9.6	9.4J	9.3J	12	12	9.7J/8.9J	6.3J	8.3J	5.2 J	9.2 J	12 J
Naphthalene	10											
Di-n-octyl phthalate	50											
Phenol	1	**43**	**62**	**50J**	**42**	**58**	**39/36**	**30J**	**28**	**13**	**20**	**26 J**
Total SVOCs		82.02	98.9	79.3	80.8	95.9	67.85	48.3	53.6	29.8	50.19	62.4

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		OGC-4										
Date	**Class GA Level**	**05/27/09**	**05/26/10**	**05/26/11**	**05/30/12**	**05/29/14**	**05/26/16**	**05/23/18**	**05/12/20**	**4/28/2022**	**4/26/2024**	**4/30/2026**
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50	1.6J					3.6J					
Benzene	1											
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5											
Ethylbenzene	5											
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5											
Trichloroethene	5											
Vinyl Chloride	2											
Total Xylenes	5											
Total VOCs		1.6	0	0	0	0	3.6	0	0	0	0	0
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50		0.51J/ND									
2-Methylphenol	NL	2.7J										
4-Methylphenol	NL				2.8J	0.87J						
Naphthalene	10		3.4J/3.4J									
Di-n-octyl phthalate	50											
Phenol	1	25	15/15	5.5	0.97J	0.68J	0.43J					
Total SVOCs		27.7	18.66	5.5	3.77	1.55	0.43	0	0	0	0	0

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		OGC-5										
Date		**05/24/07**	**05/29/08**	**05/26/10**	**05/30/12**	**05/29/14**	**05/26/16**	**05/23/18**	**05/11/20**	**04/28/22**	**4/25/2024**	**5/1/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50		3.5J					5.3J				29
Benzene	1	0.54J	0.69J		0.58J	**1.1**	**1.4**	**2.1**	**1.4**	**1.2**	**1.3**	0.72
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5							0.29J				
Ethylbenzene	5											
Methylene Chloride	5											
Tetrachloroethene	5											
Toluene	5							0.38J				
Trichloroethene	5						0.70J					
Vinyl Chloride	2	0.95J	1.4				1.1J	1				
Total Xylenes	5											
Total VOCs		1.49	5.59	0	0.58	1.1	3.2	9.07	1.4	1.2	1.3	29.72
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50											
2-Methylphenol	NL	0.5J	0.3J									0.30 J
4-Methylphenol	NL	0.9J	0.4J			0.66J						
Naphthalene	10	2J	0.5J	1.6J	0.85J	1.1J	2.3J	1.2J	0.95J			0.32 J
Di-n-octyl phthalate	50											
Phenol	1											
Total SVOCs		3.4	1.2	1.6	0.85	1.76	2.3	1.2	0.95	0	0	0.62
Notes:												
NL - Not listed												
8.8 - Bold number exceeds Class GA Level												
NS - Not Sampled												
J - Estimated												
Blank = Non-Detect												

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		**OGC-6**										
Date	**Class GA Level**	**05/26/16**	**05/31/17**	**05/23/18**	**05/29/19**	**05/11/20**	**04/28/21**	**04/28/22**	**04/28/23**	**4/25/2024**	**4/28/2025**	**5/1/2026**
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50				4.4J							
Benzene	1		0.83	0.81J	0.81	0.76				0.7	0.59 J	
2-Butanone	50											
Chlorobenzene	5			0.29J					**8.6**			
trans-1,2-Dichloroethene	5		**11**	**17**	**19**	**27**	**11**	**11**		**19**	**14**	**13**
Ethylbenzene	5			0.5J								
Methylene Chloride	5											
Tetrachloroethene	5	**71**	**29**	**16**	**18**	**17**	**28**	**14**	**9.5J**	**11**	**13**	4
Toluene	5	4.0J	2.7	3.2	3.5	2	2.6J	2.1	**13**	1.4	1.7	0.83 J
Trichloroethene	5	**60**	**41**	**28**	**39**	**34**	**40**	**28**	**20**	**23**	**18**	**8.5**
Vinyl Chloride	2		1.3	1.4	1.3	1.7				**4.9**	**2.1**	1.8 J
Total Xylenes	5		1.3J	2.1	2.4	1.1J				0.73 J	0.92 J	
Total VOCs		135	87.13	69.3	88.41	83.56	81.6	55.1	51.1	60.73	50.31	28.13
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3								**4.3J**			
1,4-Dichlorobenzene	3								**97**			
2,4-Dimethylphenol	50			0.51J					21J			0.20 J
2-Methylphenol	NL	3.6J	2.4J	2J		1.1J	1.6J	1.5J	16J	0.71 J	1.5 J	0.78 J
4-Methylphenol	NL			1.7J		0.78J	0.80J	0.83J	41J		0.92 J	0.52 J
Naphthalene	10	0.97J		1.2J			0.94J	1J			0.91 J	0.61 J
Di-n-octyl phthalate	50											
Phenol	1			0.81J					**1500**			0.15 J
Total SVOCs		4.57	2.4	6.22	0	1.88	3.34	3.33	1679.3	0.71	3.33	2.26

Notes:

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8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		OGC-7										
Date		**05/26/16**	**05/31/17**	**05/23/18**	**05/29/19**	**05/11/20**	**04/28/21**	**04/28/22**	**04/28/23**	**4/25/2024**	**4/28/2025**	**4/30/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50				3.9J/4.3J							
Benzene	1			0.13J								
2-Butanone	50											
Chlorobenzene	5											
trans-1,2-Dichloroethene	5	0.95J		1.5J	1.0/1.2	1.2	1.2	1.2	1.2	1.3	0.94 J	1.1
Ethylbenzene	5			0.51J								
Methylene Chloride	5											
Tetrachloroethene	5				0.40J/0.45J							
Toluene	5	1.6	1.4/1.3	2.6J	1.1/1.3	1.1	1.2	1.2	1.3	1.5	1.5	1.5
Trichloroethene	5	4.9	4.6/4.2	**6.2**	4.3/4.5	2.9	3	2.9	3.4	3.4	2.5	3.4
Vinyl Chloride	2					**2.7**	**5.5**	**2.6**	**3.0**	**5.9**	1.6	**2.3 J**
Total Xylenes	5	1.9J	0.93J/0.86J	2.8	0.89J/0.85J	0.71J	1.0J	0.81J	0.86J	1.1 J	1.0 J	1.0 J
Total VOCs		9.35	6.65	13.74	12.1	8.61	11.9	8.71	9.76	13.2	7.54	9.30
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50											
2-Methylphenol	NL			0.63J		0.43J						
4-Methylphenol	NL			0.65J	0.59J	0.47J						
Naphthalene	10											
Di-n-octyl phthalate	50											
Phenol	1											
Total SVOCs		0	0	1.28	0.59	0.9	0	0	0	0	0	0

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.6

Summary of Detected Compounds
Site Groundwater
Gratwick-Riverside Park
North Tonawanda, New York

Location		OGC-8										
Date		**05/27/09**	**05/26/10**	**05/26/11**	**05/30/12**	**05/29/14**	**05/26/16**	**05/23/18**	**05/12/20**	**04/28/22**	**4/26/2024**	**4/30/2026**
	Class GA											
	Level											
Volatiles (µg/L)												
1,1-Dichloroethane	5											
Acetone	50	1.5J										
Benzene	1	0.58J				0.50J	0.47J	0.87J	0.83		0.70	0.55 J
2-Butanone	50											
Chlorobenzene	5							0.42J				
trans-1,2-Dichloroethene	5							0.39J				
Ethylbenzene	5	0.50J						0.82J	0.96J	0.81J / ND		
Methylene Chloride	5											
Tetrachloroethene	5	1.6		0.94J	1.3	0.91J	1.0	1.6	1.3	1.1 / 0.87J	0.84 J	0.61 J
Toluene	5	3.7		2.4	2.6	2.8	3.3	4.6	3.8	4.2 / 4.2	3.3	2.3
Trichloroethene	5	4.0		2.4	2.7	3.1	3.9	**5.2**	**5.2**	4.3 / 4.1	3.5	2.5
Vinyl Chloride	2											
Total Xylenes	5	1.5J		0.82J	0.86J	0.78J	1.0J	2.6	3.4	1.6J / 1.6J	1.7 J	0.99 J
Total VOCs		13.38	0	6.56	7.46	8.09	9.67	16.5	15.49	11.39	10.04	6.95
Semi-Volatiles (µg/L)												
1,2-Dichlorobenzene	3											
1,4-Dichlorobenzene	3											
2,4-Dimethylphenol	50		0.73J		0.52J	1.1J	0.86	1.4J	3.8J	2.1J / 2.3J	2.6 J	2.0 J
2-Methylphenol	NL		2.2J	1.5J	2.0J	2.6J	1.9J	3.3J	7.5J	3.8J / 4.1J	3.7 J	4.2 J
4-Methylphenol	NL	5.7	6.5J	5.3J	6.2J			11	25	15 / 16	14	12 J
Naphthalene	10											
Di-n-octyl phthalate	50											
Phenol	1											
Total SVOCs		5.7	9.43	6.8	8.72	3.7	2.76	15.7	36.3	21.65	20.3	18.2

Notes:

NL - Not listed
8.8 - Bold number exceeds Class GA Level
NS - Not Sampled
J - Estimated
Blank = Non-Detect

Table 2.7

PH Readings
Gratwick-Riverside Park Site
North Tonawanda, New York

Monitoring Location	MH2	MH3	MW-6	OGC-1	OGC-5	MH6	OGC-6	MW-7	MH8	OGC-2	MH9
Date											
04/30/26 - 05/01/26	NM	NM	11.50	8.20	7.71	NM	10.32	8.66	NM	8.55	NM
Monitoring Location	**OGC-7**	**MH11**	**MW-8**	**OGC-3**	**MH12**	**OGC-8**	**MH14**	**MW-9**	**OGC-4**	**MH15**	**MH16**
Date											
04/30/26 - 05/01/26	11.46	NM	12.01	12.05	NM	11.99	NM	11.88	11.15	NM	NM
Notes:											
NM - Not Measured											

Table 2.8

Effluent Sampling Summary
Gratwick-Riverside Park Site
North Tonawanda, New York

LOCATIONS	
Effluent monitoring station at Site discharge point	
FREQUENCY	
Semi-Annual (Spring and Fall as dictated by the City of North Tonawanda Wastewater Discharge Permit)	
PARAMETERS	
Volatiles	
Acetone	Methylene Chloride
Benzene	Styrene
2-Butanone	Tetrachloroethene
Chlorobenzene	Toluene
1,1-Dichloroethane	1,1,1-Trichloroethane
1,2-Dichloroethane	Trichloroethene
trans-1,2-Dichloroethene	Vinyl Chloride
Ethylbenzene	Xylenes (Total)
Semi-Volatiles	
1,4-Dichlorobenzene	4-Methylphenol
1,2-Dichlorobenzene	Naphthalene
2,4-Dimethylphenol	Di-n-octylphthalate
2-Methylphenol	Phenols (4AAP)
Inorganics	
Mercury	
Wet Chemistry	
Chloride	pH
Cyanide	Phosphorous
NH3	Sulfate
NO3	Sulfide

Table 2.9

Analytical Results Summary
Site Effluent
Gratwick-Riverside Park Site

Sample Date:		Surface Water Standard		10/04/16	04/06/17	10/05/17	04/05/18	10/04/18	4/11/2019	10/18/2019	4/23/2020	10/8/2020	4/14/2021	10/6/2021	5/3/2022	11/2/2022	4/27/2023	11/8/2023	4/25/2024	12/10/2024	4/30/2025	10/23/2025
Parameter	**Unit**		(1)																			
Volatiles																						
1,1,1-Trichloroethane	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.1	3	1.8
1,2-Dichloroethane	µg/L	0.6		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.5 U	1.5 U	1.5 U
2-Butanone	µg/L	50		25U	25U	NA	25U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	NA	10 U	10 U
Acetone	µg/L	50		25U	25U	NA	25U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	NA	3.6 J	2.6 J
Benzene	µg/L	1		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1.5**	1	0.79 J
Chlorobenzene	µg/L	5		5.0U	**9.5**	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**7.3**	5.0 U	**5.1**	5.0 U	5.0 U	5.0 U	5.0 U	4.6	4.3	2.2 J
Ethylbenzene	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**5.1**	2.9	2.1
Methylene chloride	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	1.0 U	1.0 U
Tetrachloroethene	µg/L	0.7	(2)	5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**2.6**	**2.6**	**2.0**
Toluene	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**10**	**6.7**	**5.6**	**13**	5.0 U	**15**	5.0 U	**18**	**9.4**	**7.3**
trans-1,2-Dichloroethene	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.7	2.5	1.7
Trichloroethene	µg/L	5		5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**12**	**8**	**13**	17	5.0 U	**19**	5.0 U	**18**	**10**	**9**
Vinyl chloride	µg/L	0.3	(2)	5.0U	5.0U	5.0U	5.0U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**5.5 J**	5.0 U	5.0 U	5.0 U	5.0 U	**4.8**	**4.8**	**3.9**
Xylene (total)	µg/L	5	each	10U	10U	10U	10U	10 U	10 U	10 U	10 U	10 U	**15**	10 U	5.0 U	**19**	10 U	**21**	10 U	NA	**12**	**10**
Total VOCs				0	9.5	0	0	0	0	0	0	0	44.3	14.7	16.2	49	0	55	0	61.4	56.1	43.4
Semi-Volatiles																						
1,2-Dichlorobenzene	µg/L	3		4.8U	4.8U	5.0U	5.0U	4.8 U	4.8 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	1.7 J	1.1 J	0.85 J
1,4-Dichlorobenzene	µg/L	3		5.9U	**26**	**20**	5.6U	5.4 U	**15**	10 U	**13**	**24**	28 U	10 U	**22**	**12**	10 U	10 U	10 U	**24**	**34**	**14**
2,4-Dimethylphenol	µg/L	50	(2)	1.3U	**53**	5.2	1.7	1.3 UJ	1.3 U	5.0 U	5.0 U	5.0 U	7.0 U	7.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.74 J	1.86 J	5.0 U
2-Methylphenol	µg/L	NL		0.77U	7.7	0.81U	0.81U	0.77 UJ	0.77 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.6	5.0 U	5.5	5.0 U	NA	2.3 J	NA
4-Methylphenol	µg/L	NL		0.75U	62	0.79U	0.79U	0.75 UJ	0.75 U	5.0 U	5.0 U	5.0 U	14	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	1.87 J	NA
Di-n-octyl phthalate	µg/L	50	(2)	4.6U	4.6U	4.6U	4.6U	4.6 U	4.6 U	5.0 U	5.0 U	5.0 U	6.0 U	6.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5/0 U	5.0 U	5.0 U
Naphthalene	µg/L	10		0.82U	1.3	0.86U	0.86U	0.82 U	0.82 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	2.0 U	2.0 U
Phenol	µg/L	1		0.33U	**3.0**	0.35U	0.35U	0.33 UJ	0.33 U	5.0 U	5.0 U	5.0 U	**6.8**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**11.2**	**4.18 J**	**1.96 J**
Total SVOCs				0	153.0	25.2	1.7	0	15	0	13	24	20.8	0	22	18.6	0	5.5	0	38.64	45.31	16.81
Metals																						
Mercury	mg/L	0.0000007	(4)	0.00020U	0.00020U	0.00020U	0.00020U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	NA	0.00020 U	0.00012 J
General Chemistry																						
pH	S.U.	NL		8.43	8.80	7.51	7.86	8.82	8.16	7.52	7.91	7.66	8.82	10.36	9.53	10.63	8.03	11.23	8.41	10.95	10.11G/8.95C	10.46G/10.90C
Chloride	mg/L	250		**421**	**576**	**408**	**411**	195	**405**	229	**338**	**384**	**470**	**283**	**397**	**358**	**335**	**318**	**305**	**426**	**409**	240
Ammonia	mg/L	2.0		1.12	1.12	NA	0.84	0.56	1.12	1.4	1.68	1.4	1.12	1.12	U	NA	NA	NA	0.308 U	**5.6**	0	< 1.0
Nitrate (as N)	mg/L	10		0.050U	0.050U	0.050U	0.13UJ	0.050 U	0.050 U	0.050 U	0.074	0.050 U	0.050 U	0.050 U	0.050 U	U	0.089	R	0.050 U	0.059 J	0.049 J	0.11
Sulfate	mg/L	250		65.4	159	160	218	157	206	131	218	200	154	158	203	180	196	179	179	172	170	130
Sulfide	mg/L	0.05	(2)	**30.2**	**6.2**	**1.6**	1.0U	1.0 U	**16**	**2**	1.0 U	**1.2**	**2**	**5.6**	**4.8**	2.8	1.0 U	**4**	R	**1.4**	0.20 U	**1.9**
Phosphate Phosphorous	mg/L	0.020	(2)	**1.30**	0.10U	**0.14**	0.10U	0.10 U	**0.16**	**0.29**	**0.23**	**0.61**	**0.22**	**0.1**	0.016	**0.065**	**0.168**	**0.032**	**0.039**	**0.038**	**0.054**	**0.066**
Cyanide	mg/L	0.0052		**0.3**	0.005U	NA	0.005U	0.010 U	ND	ND	**0.014**	0.010 U	R	**0.019**	0.010 UJ	0.010 U	0.010 U	**0.015 J-**	0.010 U	**0.009**	0.005 U	0.002

Notes:

Only analytes required to be sampled by the discharge permit are listed.

(1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, TOGS 1.1.1. Lowest Standard/Guidance Value shown
(2) - Guidance Value
(3) - Calculated using a hardness of 300 ppm
(4) - Applies to dissolved form
(5) - Hardness >75 mg/L
5.0U - Non-detect at associated value
NA - Not Analyzed
-- - No sample result
U - Not detected. No associated reporting limit
J - Estimated
NL - Not Listed
5.1 - Bold concentration exceeds Surface Water Standard
G - pH level collected as a grab sample
C - pH level collected as a composite sample

Table 2.10

Groundwater Volumes Discharged
to North Tonawanda POTW
Gratwick-Riverside Park Site
North Tonawanda, New York

	Volumes (gallons)	
Month	**Monthly**	**Total [(1)]**
Previous Reporting Period	NA	260,492,636
June 2025	1,234,508	261,727,144
July 2025	1,102,026	262,829,170
August 2025	1,102,019	263,931,189
September 2025	969,916	264,901,105
October 2025	905,949	265,807,054
November 2025	860,614	266,667,668
December 2025	817,261	267,484,929
January 2026	1,021,398	268,506,327
February 2026	892,511	269,398,838
March 2026	928,822	270,327,660
April 2026	10,875	270,338,535
May 2026	820,923	271,159,458
Reporting Period Total	10,666,822	
Notes:		
(1) - Cumulative volume since May 2001		
NA - Not applicable		

Appendices

Appendix A

City of North Tonawanda Industrial Wastewater Discharge Permit

CITY OF NORTH TONAWANDA
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit Number: 2628011

In accordance with the provisions of the Clean Water Act as amended, all terms and conditions set forth in this permit, the City of North Tonawanda Local Sewer Use Ordinance and any applicable Federal, State or local laws or regulations, authorization is hereby granted to: City of North Tonawanda
830 River Road
North Tonawanda, New York 14120

Site: **Gratwick Riverside Park**
River Road
North Tonawanda, New York 14120

Classified by S.I.C. Number(s): N/A

for the discharge of remedial action ground water into the City of North Tonawanda Sewerage System.

This permit is granted in accordance with an application filed on 05/01/96 in the offices of the Wastewater Treatment Plant Superintendent located at 830 River Road, and in conformity with specifications and other required data submitted in support of the above named application, all of which are filed with and considered part of this permit. This permit is also granted in accordance with discharge limitations and requirements, monitoring and reporting requirements, and all other conditions set forth in Parts I and II hereof.

Effective this 5th day of October, 2026

To expire the 28th day of February, 2028

Jason Koepsell, Water Works Superintendent
Signed this 5th day of October, 2026

PART I. SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge from the permitted facility outfall(s) shall be limited and monitored by the permittee as specified below (Refer to attached map for sampling and monitoring sites).

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max.	Sampling Period	Sampling Type
001	Total Flow		1 Sampling Day Monthly	continuous
	pH	Monitor Only	1 Sampling Day Semi-annual	Grab & 24 hr. comp
	Vinyl Chloride	Monitor Only	1 Sampling Day semi-annual	grab
	Acetone	Monitor Only	1 Sampling Day semi-annual	grab
	Methylene Chloride	Monitor Only	1 Sampling Day semi-annual	grab
	1,1,1-Trichloroethane	Monitor Only	1 Sampling Day semi-annual	grab
	1,1-Dichloroethane	Monitor Only	1 Sampling Day semi-annual	grab
	1,2-Dichloroethane (total)	Monitor Only	1 Sampling Day semi-annual	grab
	2-Butanone	Monitor Only	1 Sampling Day semi-annual	grab
	Trichlorethene	Monitor Only	1 Sampling Day semi-annual	grab
	Benzene	Monitor Only	1 Sampling Day semi-annual	grab

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max. Monthly Avg.	Sampling Period	Sampling Type
001	Tetrachloroethene	Monitor Only	1 Sampling Day semi-annual	grab
	Toluene	Monitor Only	1 Sampling Day semi-annual	grab
	Chlorobenzene	Monitor Only	1 Sampling Day semi-annual	grab
	Ethylbenzene	Monitor Only	1 Sampling Day semi-annual	grab
	Styrene	Monitor Only	1 Sampling Day semi-annual	grab
	Xylenes (total)	Monitor Only	1 Sampling Day semi-annual	grab
	Phenol (4AAP)	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	trans-1,2-Dichloroethene	Monitor Only	1 Sampling Day semi-annual	grab
	1,4-Dichlorobenzene	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	1,2-Dichlorobenzene	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	2-Methylephenol	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	4-Methylephenol	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	2,4-Dimethylphenol	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Di-n-octylphthalate	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Naphthalene	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Cyanide	Monitor Only	1 Sampling Day semi-annual	grab
	Chloride	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
001	Nitrate	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Phosphorous	Monitor Only	1 Sampling Day semi-annual	24 hr. comp

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max. Monthly Avg.	Sampling Period	Sampling Type
	Sulfate	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Sulfide	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Ammonia	Monitor Only	1 Sampling Day semi-annual	24 hr. comp
	Mercury EPA 245.1	Monitor Only	1 Sampling Day semi-annual	24 hr. comp

*/- See Special requirements page for sub-note requirements.

PART I. SPECIFIC CONDITIONS
DISCHARGE MONITORING AND REPORTING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported by the permittee no later than the days specified below.

Sample Point	Parameter	Initial Monitoring Report	Subsequent Monitoring Reports
001	Vinyl Chloride	January 31, 2007	Semi-annual for all
	Acetone	January 31, 2007	
	Carbon Disulfide	January 31, 2007	
	1,1-Dichloroethene	January 31, 2007	
	1,1-Dichloroethane	January 31, 2007	
	1,2-Dichloroethane (total)	January 31, 2007	
	2-Butanone	January 31, 2007	
	Trichlorethene	January 31, 2007	
	Benzene	January 31, 2007	
	Tetrachloroethene	January 31, 2007	
	Toluene	January 31, 2007	
	Chlorobenzene	January 31, 2007	
	Ethylbenzene	January 31, 2007	
	Styrene	January 31, 2007	
	Xylenes (total)	January 31, 2007	
001	Phenol	January 31, 2007	Semi-annual for all

Sample Point	Parameter	Initial Monitoring Report	Subsequent Monitoring Reports
	1,3-Dichlorobenzene	January 31, 2007	
	1,4-Dichlorobenzene	January 31, 2007	
	1,2-Dichlorobenzene	January 31, 2007	
	2-Methylephenol	January 31, 2007	
	4-Methylephenol	January 31, 2007	
	2,4-Dimethylphenol	January 31, 2007	
	1,2,4-Trichlorobenzene	January 31, 2007	
	Napthalene	January 31, 2007	
	2-Methylnaphthalene	January 31, 2007	
	n-Nitrosodidiphenylamine	January 31, 2007	
	Di-n-butylphthalate	January 31, 2007	

1) This permit is written for a duration of three (3) years. Upon renewal of this permit, all parameters will be re-evaluated to develop a parameter list based on chemical concentrations present in the extracted groundwater.

2) Fequency of monitoring is to be re-evaluated after each year. Sampling to be done semi-annual (Spring – Fall).

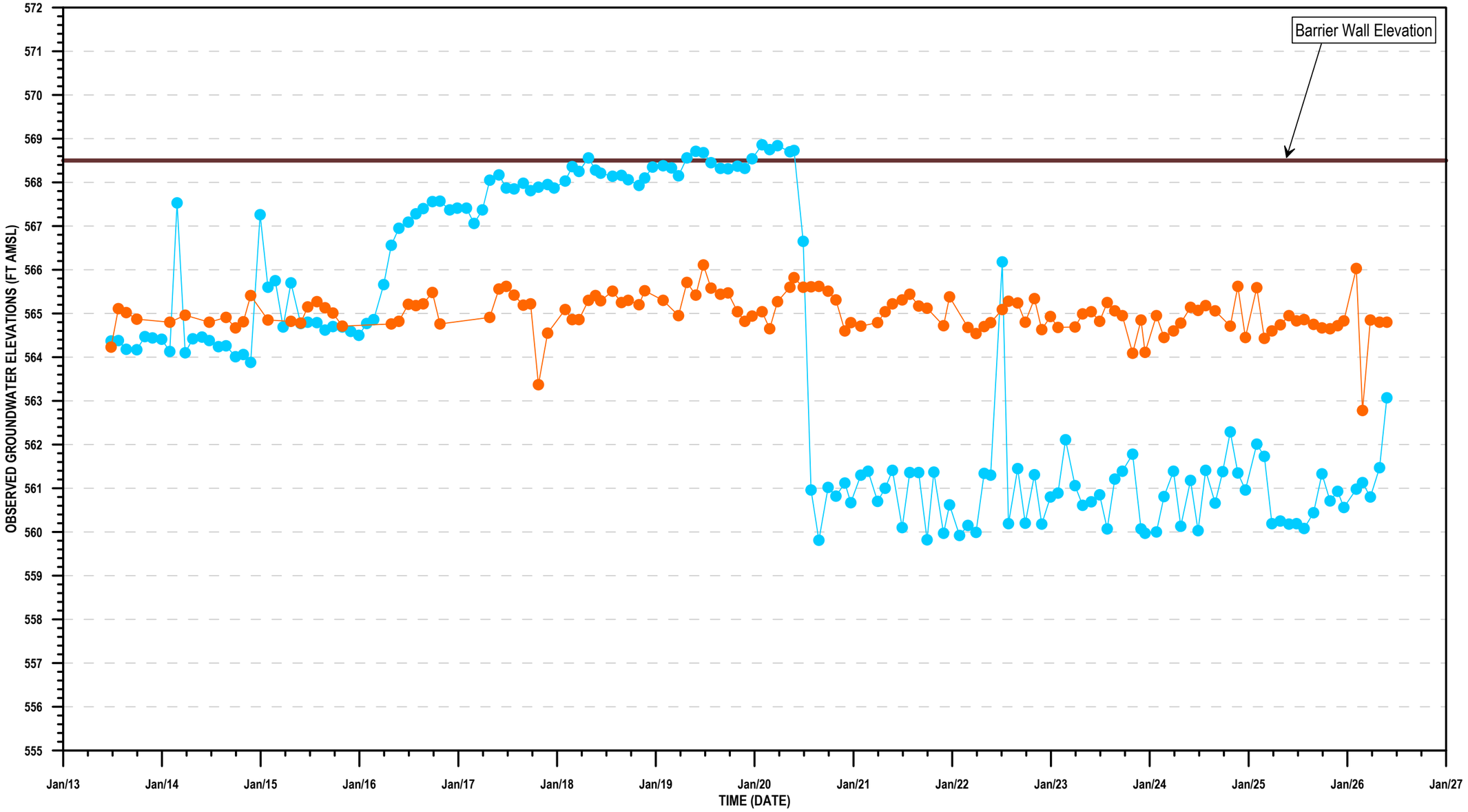
3) All monitoring reports (initial and subsequent), are to be received by the Superintendent, no later than thirty (30) days after receipt of validated data.

4) It is required that the Permittee have a Site Operations Manual available at all times. All emergency phone numbers must be listed in an appropriate place for easy access by operations personnel. All pumping operations shall be accomplished under no-bypass conditions. The Permittee is required to cease all pumping operations upon verbal request of the North Tonawanda Water/Wastewater Superintendent or his designee. Pumping operations shall not recommence until approval by the North Tonawanda Water/Wastewater Superintendent or his designee.

5) Analysts are required to use GC/MS method detection limits for most organics (if GC/MS is appropriate); GC/ECD for PCB's/Pesticides and GF method detection limits for metals (where GF is appropriate), as contained in attachment 5 of the NYSDEC TOGs 1.3.8 – New Discharges to Publicly Owned Treatment Works – dated 10/26/94.

Appendix B

Hydrographs



LEGEND

MH2

River North

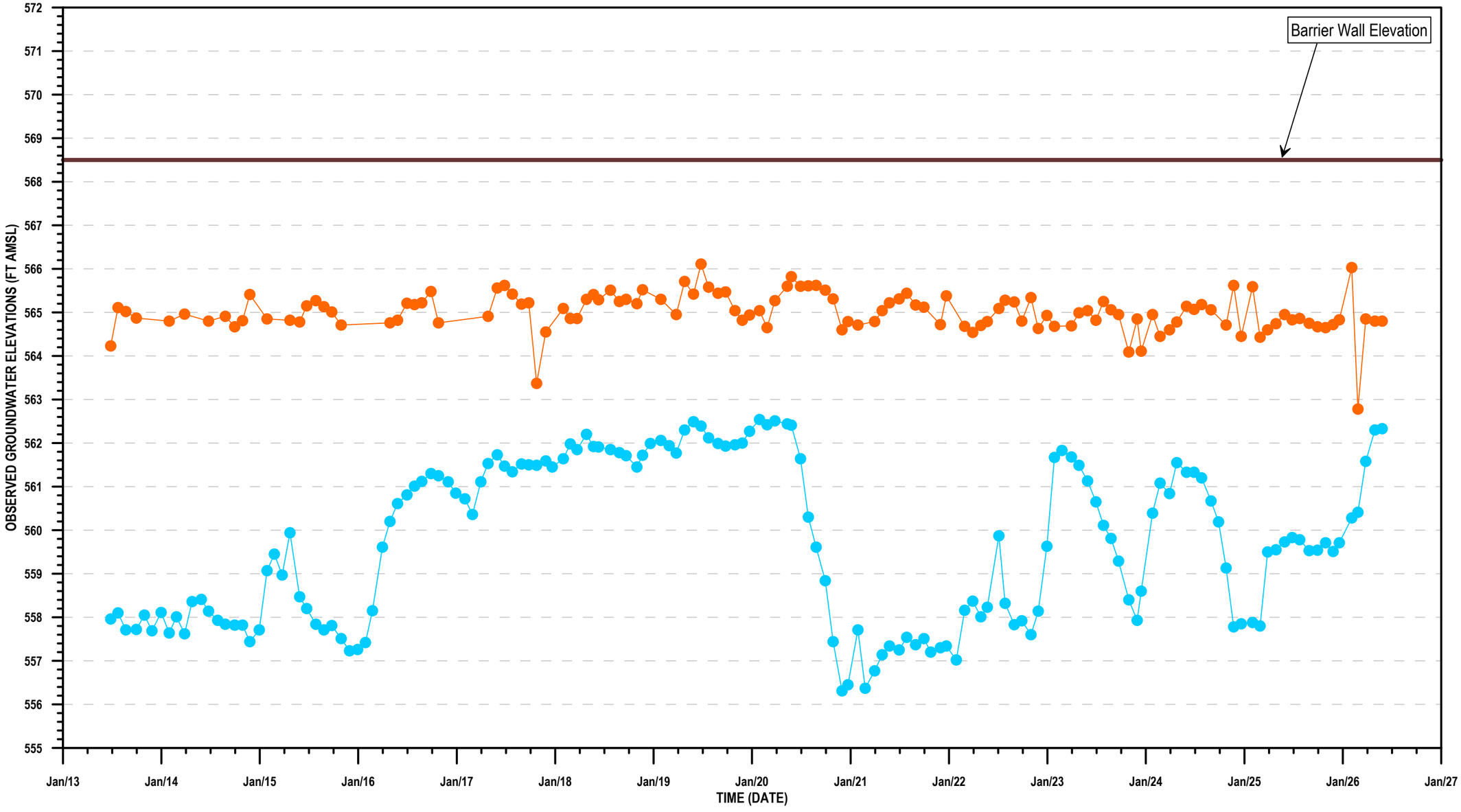
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH2 AND RIVER NORTH

Project No. **007987**
Date **June 2026**

FIGURE B.1

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH2 and River North.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH6

River North

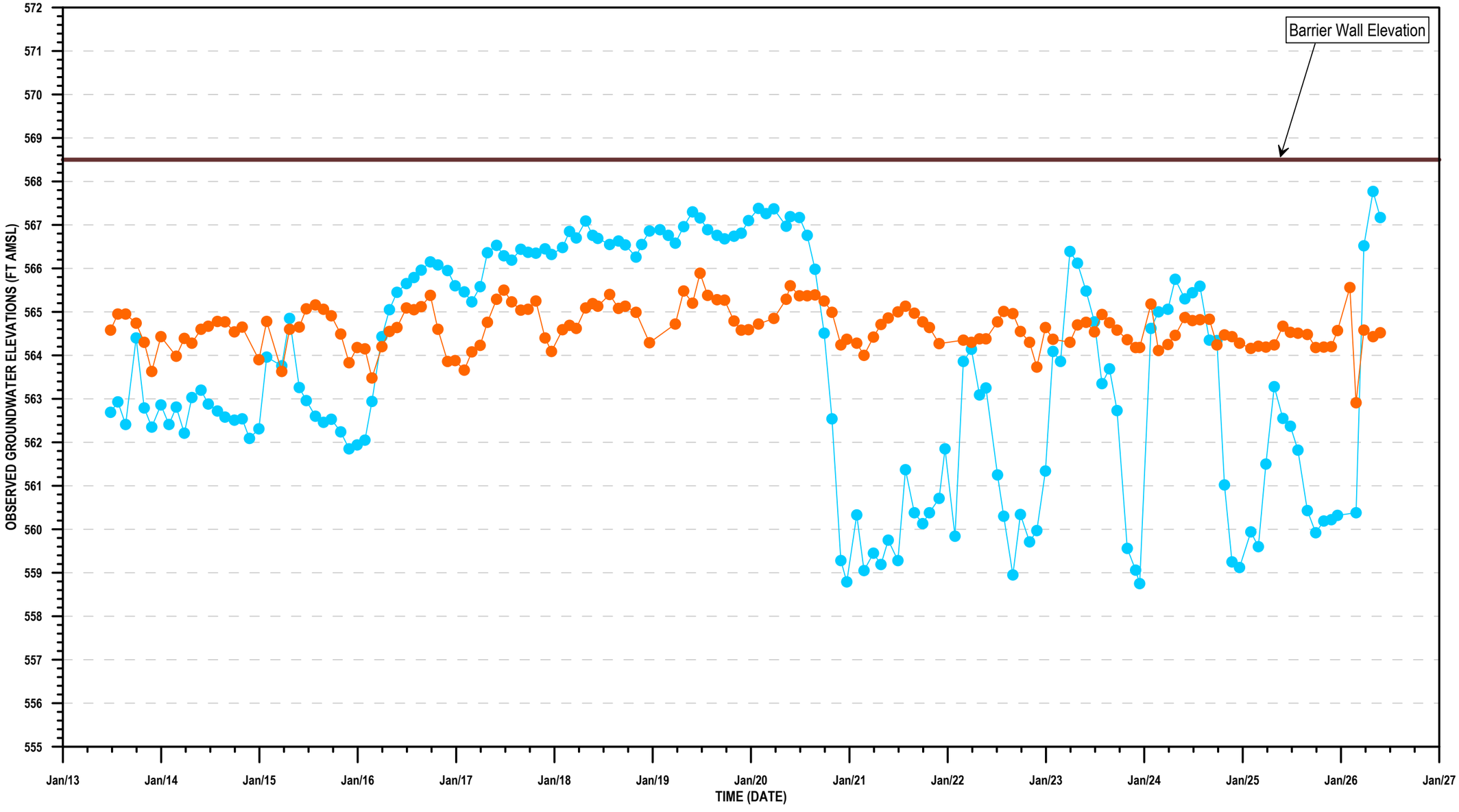
Gratwick Riverside Park
North Tonawanda, New York

Project No. **007987**
Date **June 2026**

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH6 AND RIVER NORTH

FIGURE B.2

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH6 and River North.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH8

River Middle

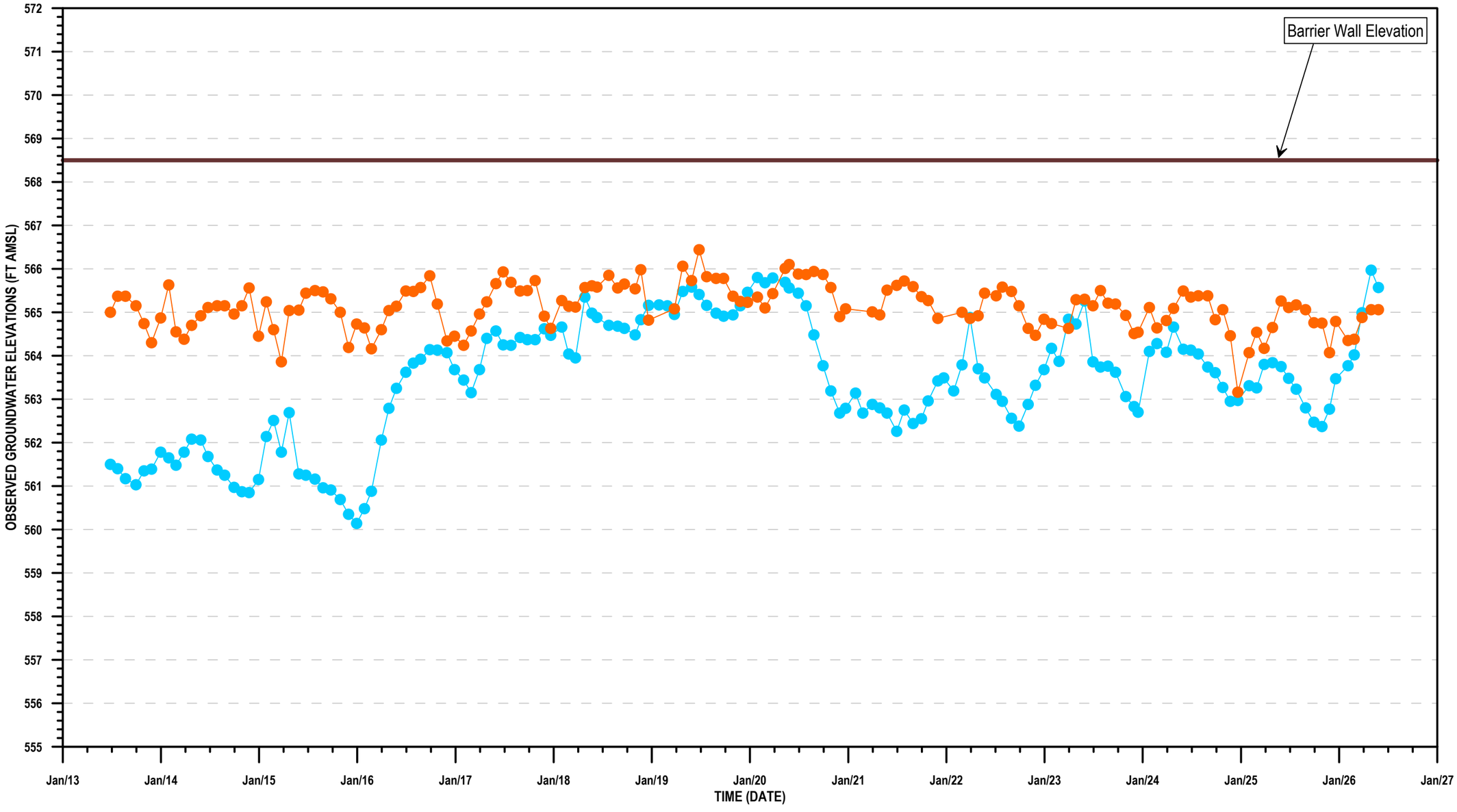
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH8 AND RIVER MIDDLE

Project No. **007987**
Date **June 2026**

FIGURE B.3

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH8 and River Middle.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH12

River South

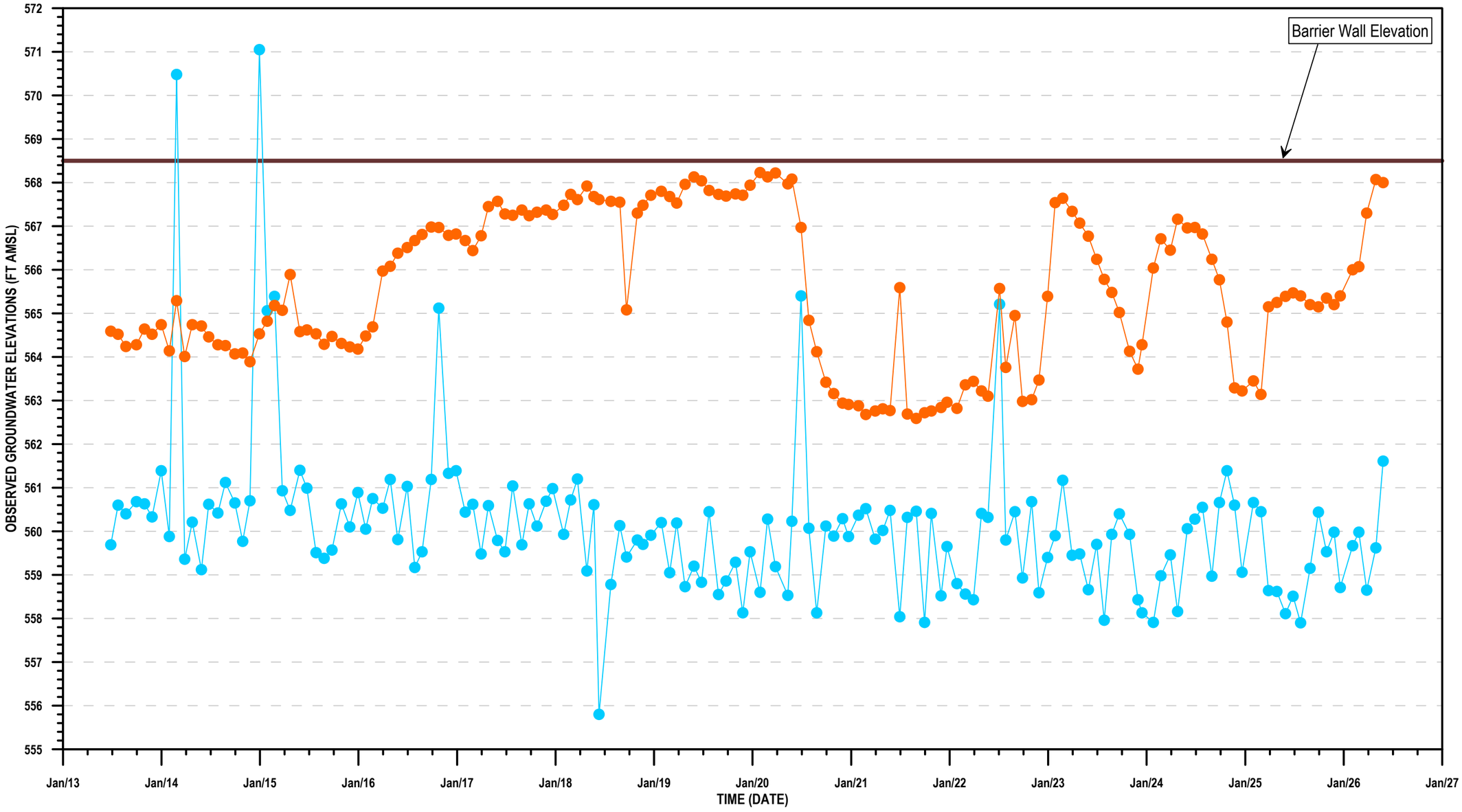
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH12 AND RIVER SOUTH

Project No. **007987**
Date **June 2026**

FIGURE B.4

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH12 and River South.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH3

MW-6

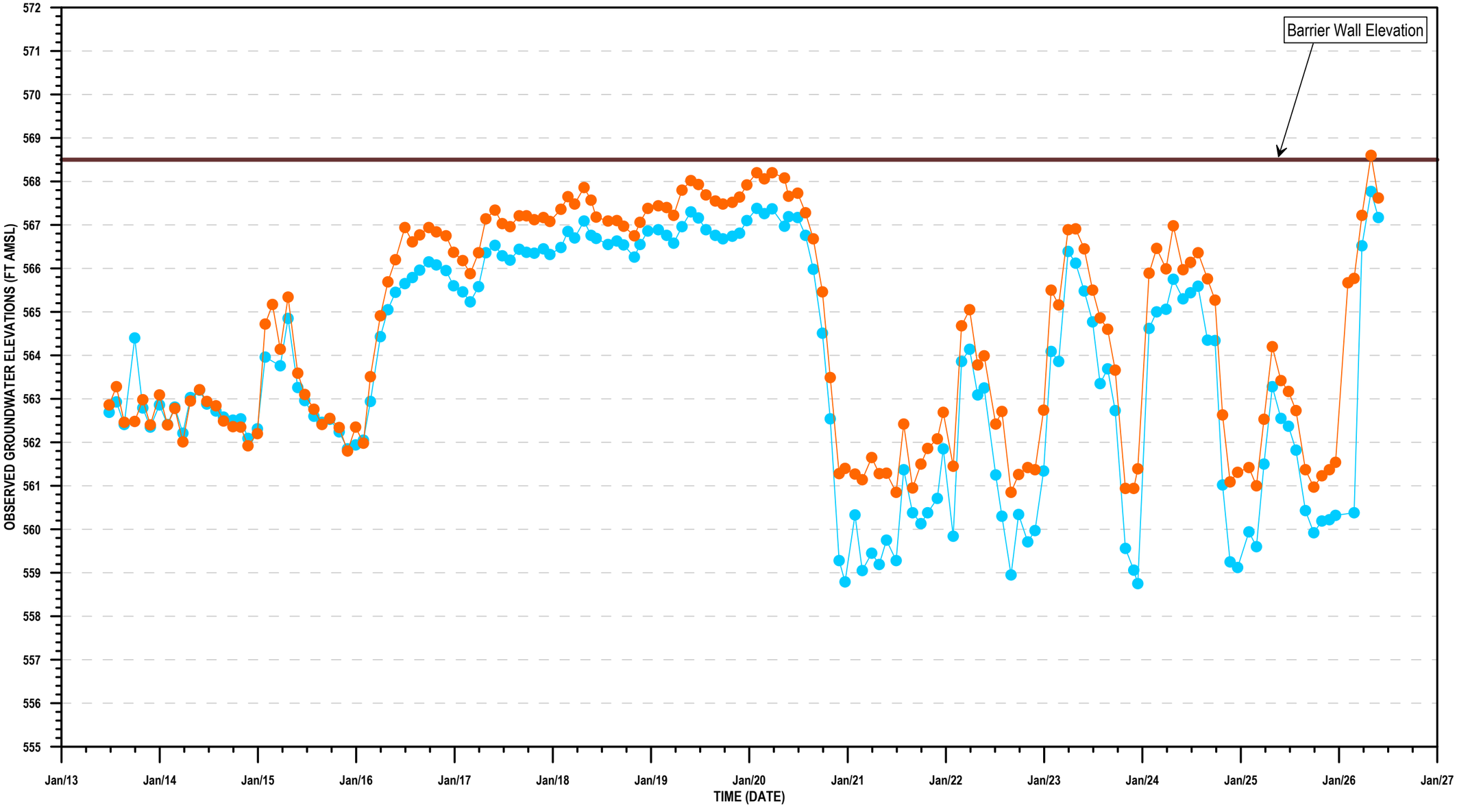
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH3 AND MW-6

Project No. **007987**
Date **June 2026**

FIGURE B.5

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Plot Date: June 05 2026 9:06 AM



LEGEND

MH8

MW-7

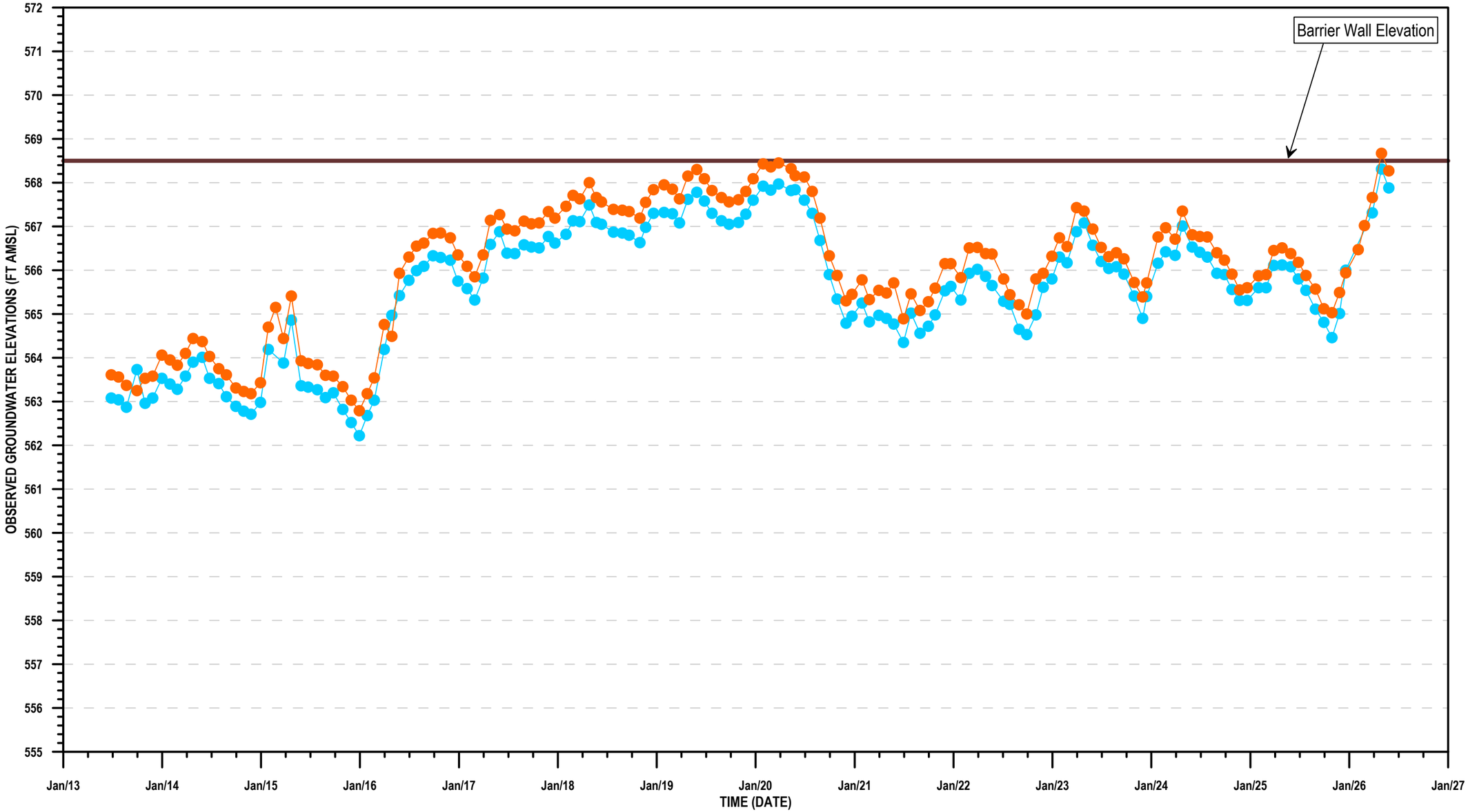
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH8 AND MW-7

Project No. **007987**
Date **June 2026**

FIGURE B.6

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH8 and MW-7.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH11

MW-8

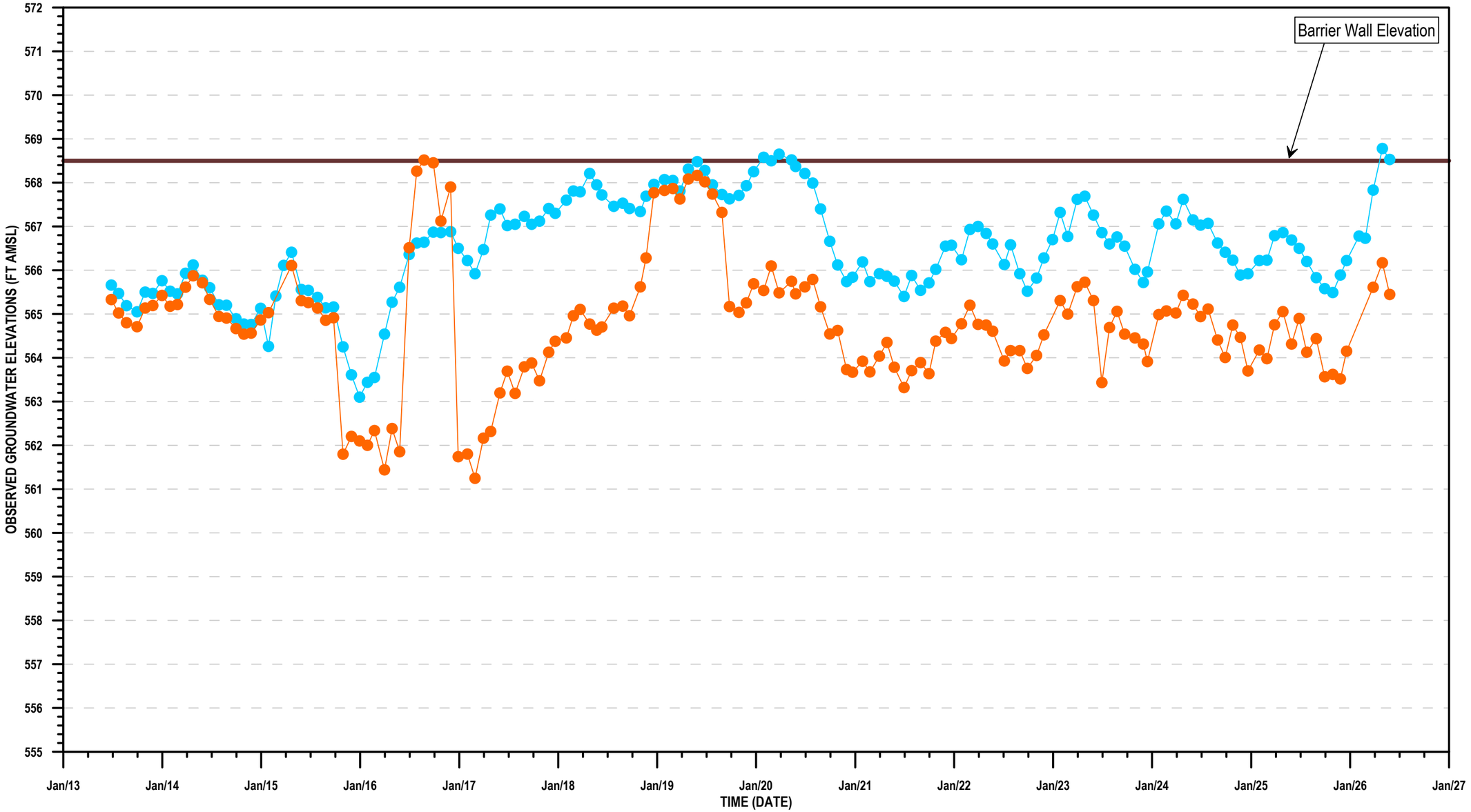
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH11 AND MW-8

Project No. **007987**
Date **June 2026**

FIGURE B.7

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH11 and MW-8.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MW-9

MH14 AND MH15

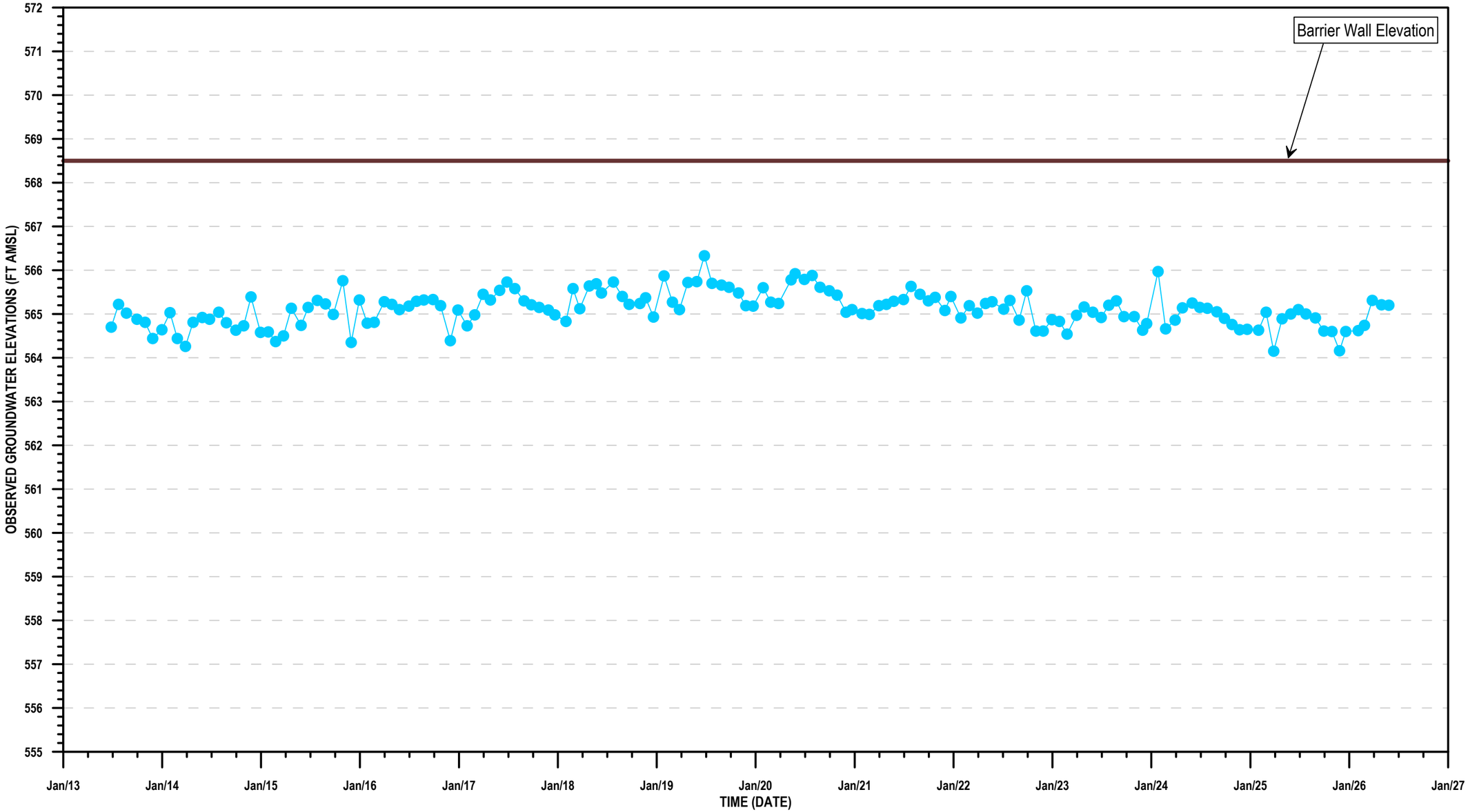
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH14, MH15, AND MW-9

Project No. **007987**
Date **June 2026**

FIGURE B.8

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH14, MH15, and MW-9.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-1

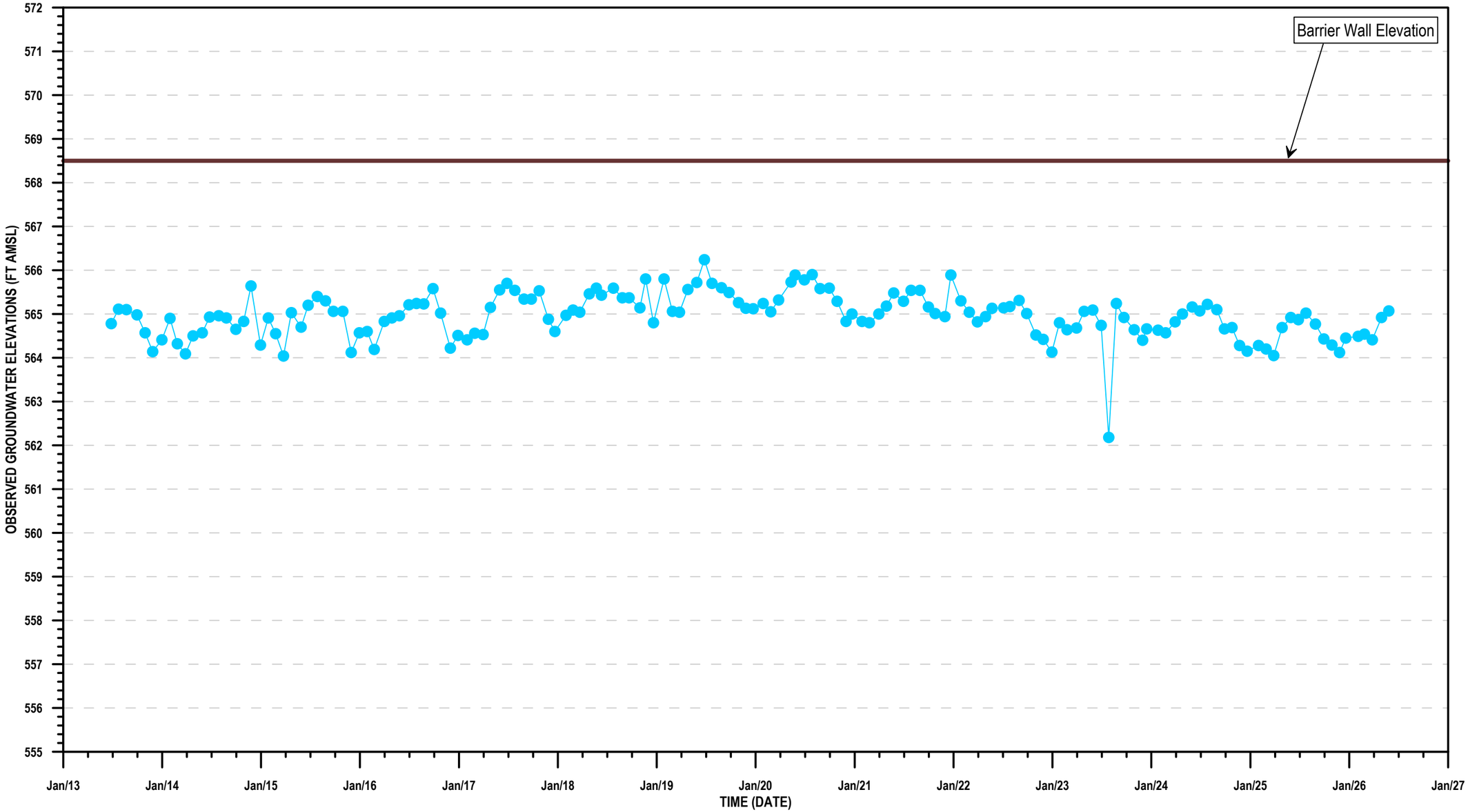
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-1

Project No. **007987**
Date **June 2026**

FIGURE B.9

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-1.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-5

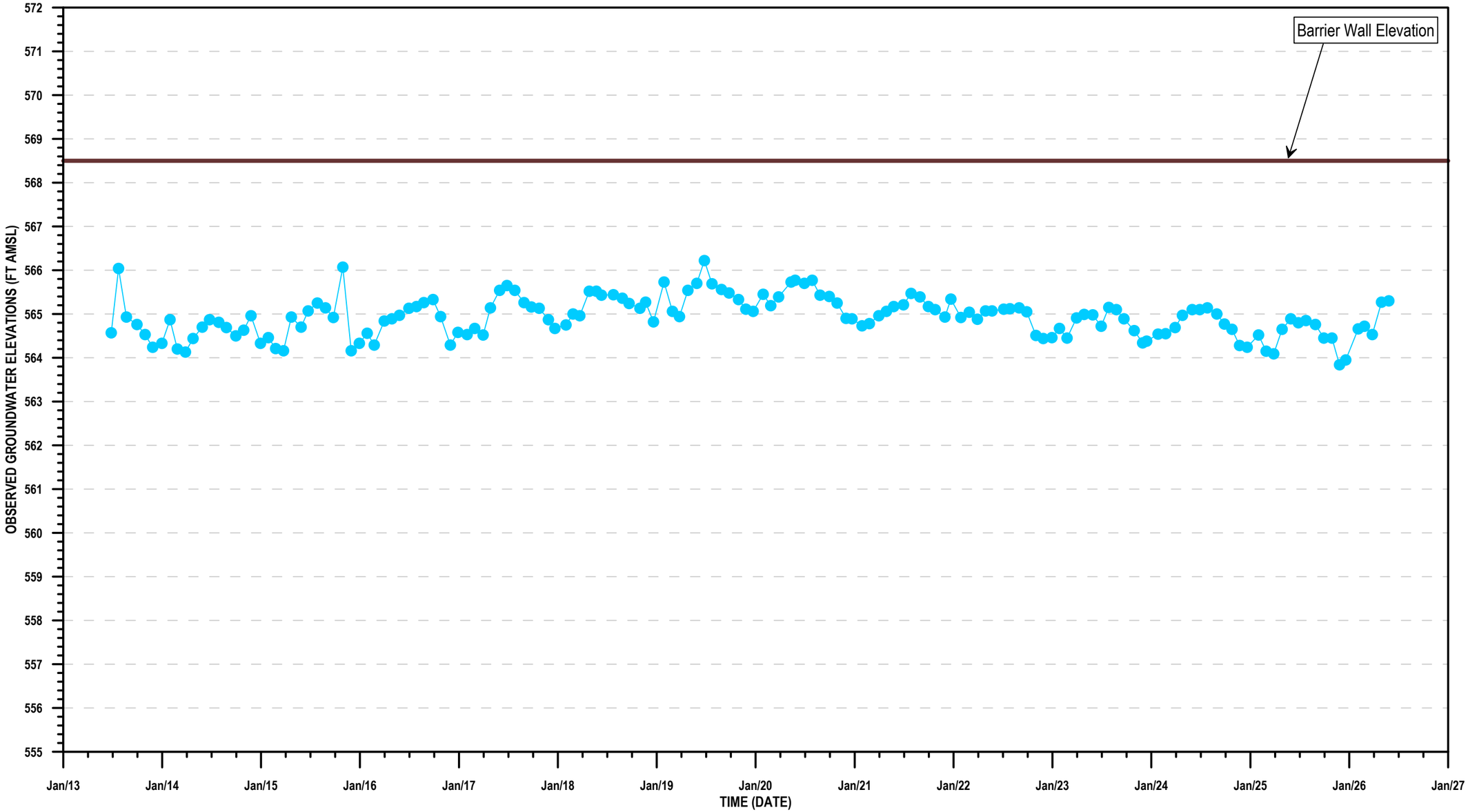
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-5

Project No. **007987**
Date **June 2026**

FIGURE B.10

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-5.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-6

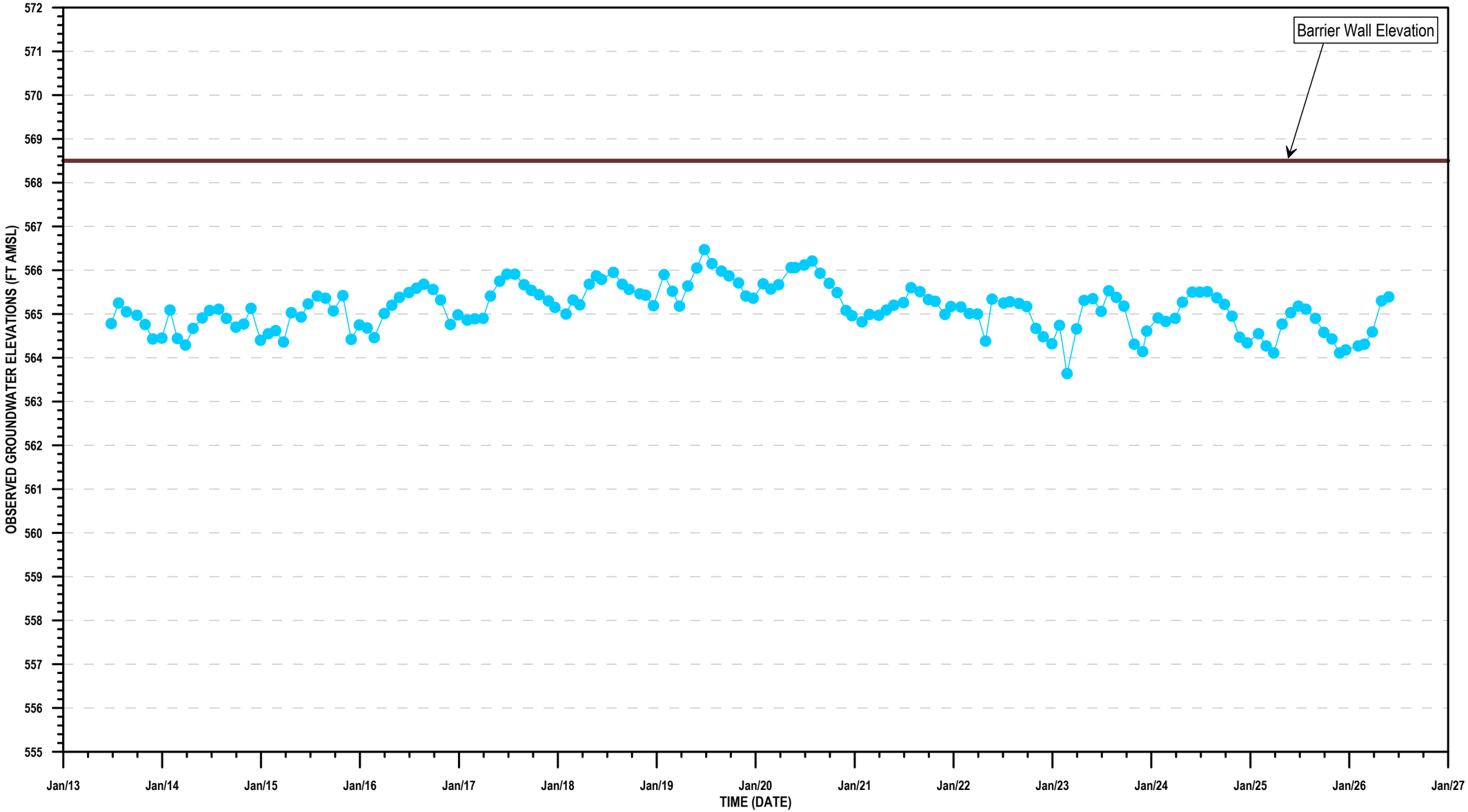
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-6

Project No. **007987**
Date **June 2026**

FIGURE B.11

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-6.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-2

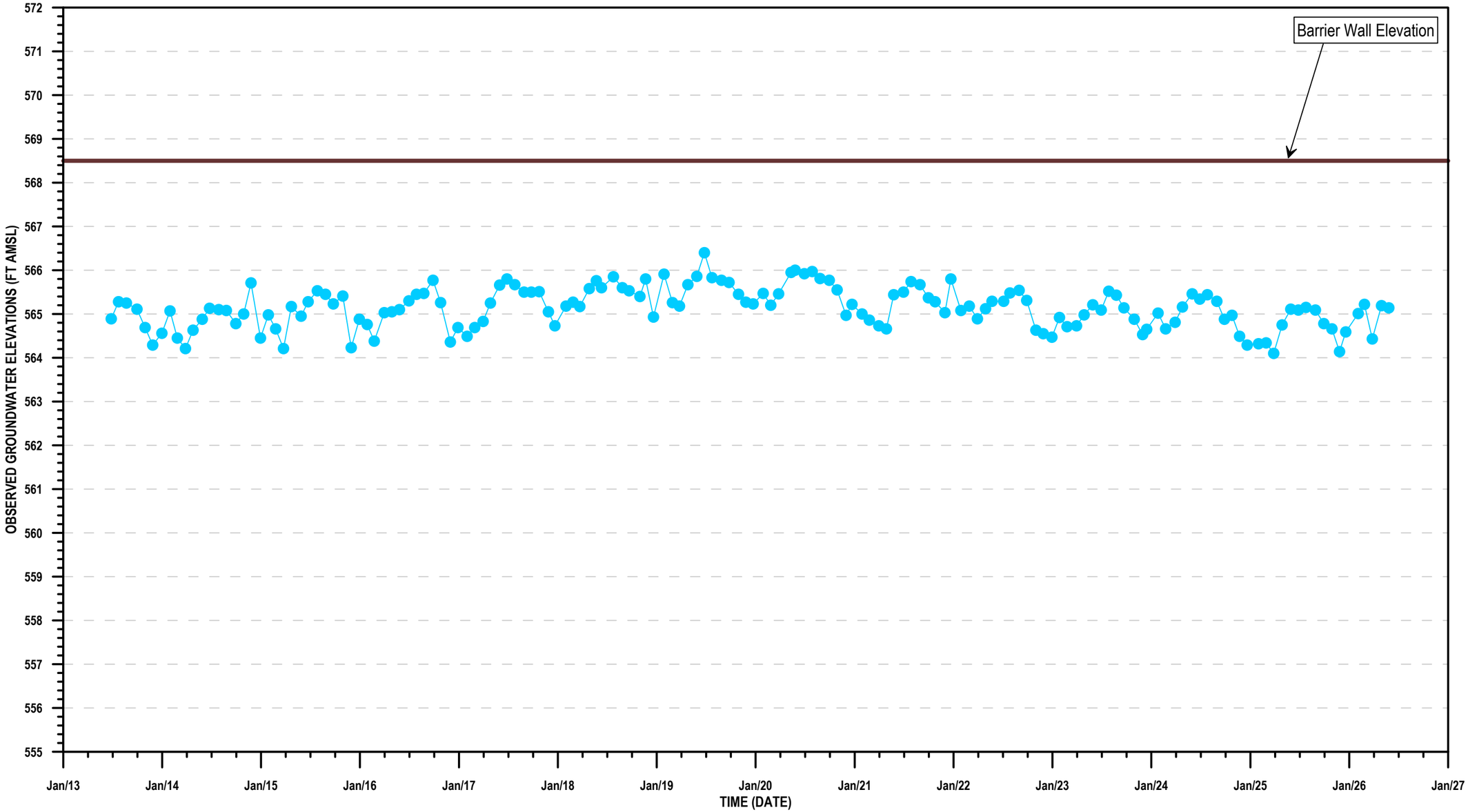
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-2

Project No. **007987**
Date **June 2026**

FIGURE B.12

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-2.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-7

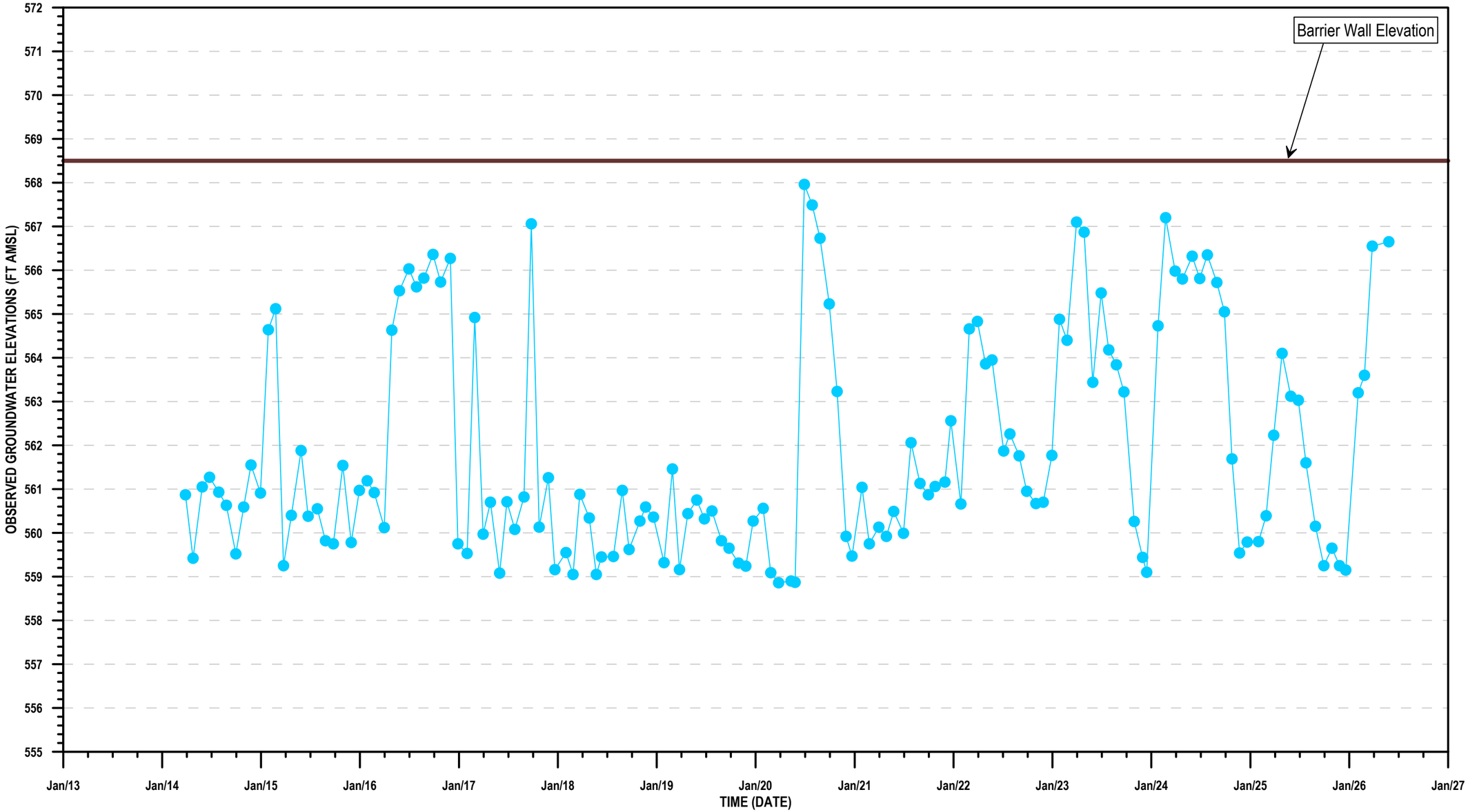
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-7

Project No. **007987**
Date **June 2026**

FIGURE B.13

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-7.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH9

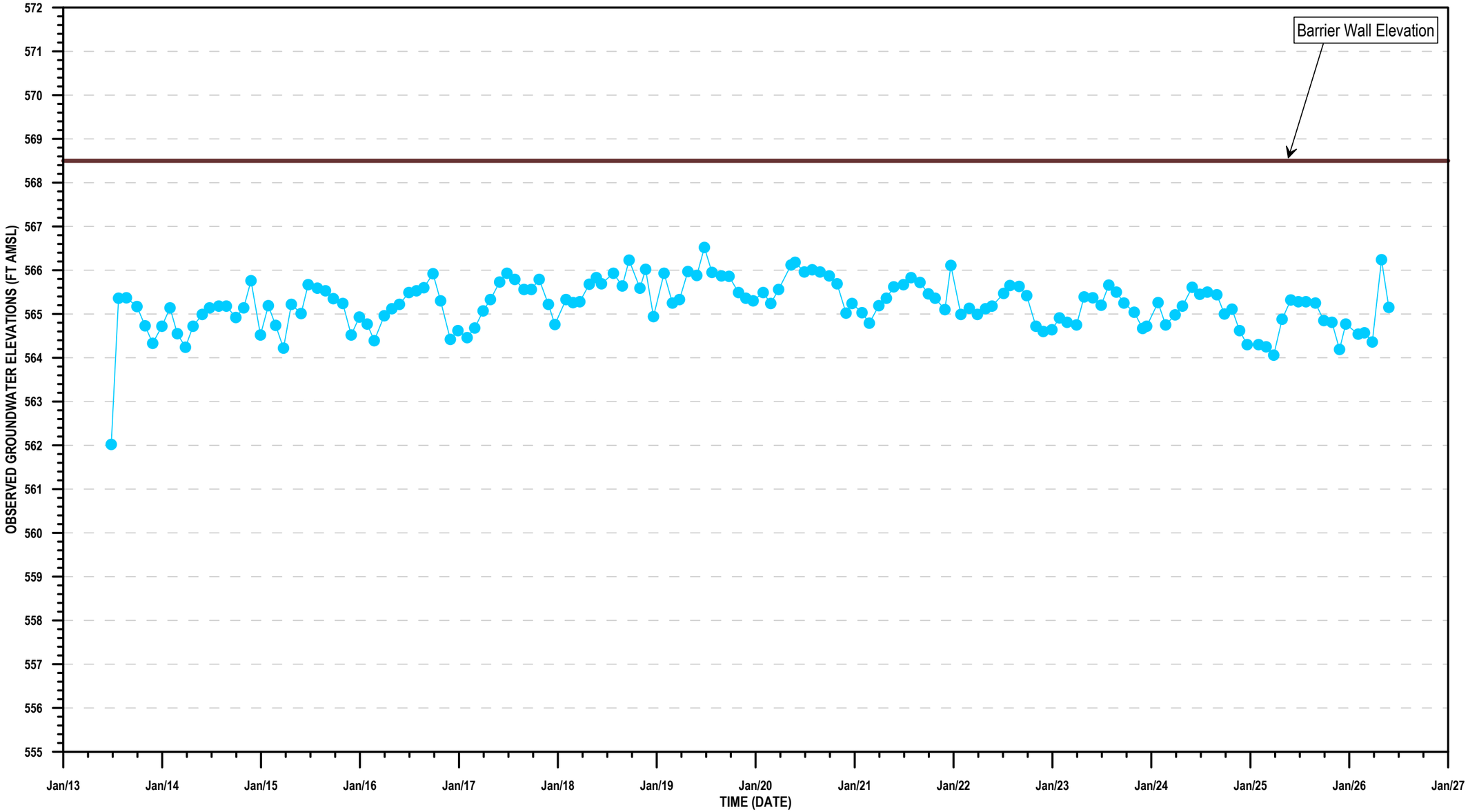
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH9

Project No. **007987**
Date **June 2026**

FIGURE B.14

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH9.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-3

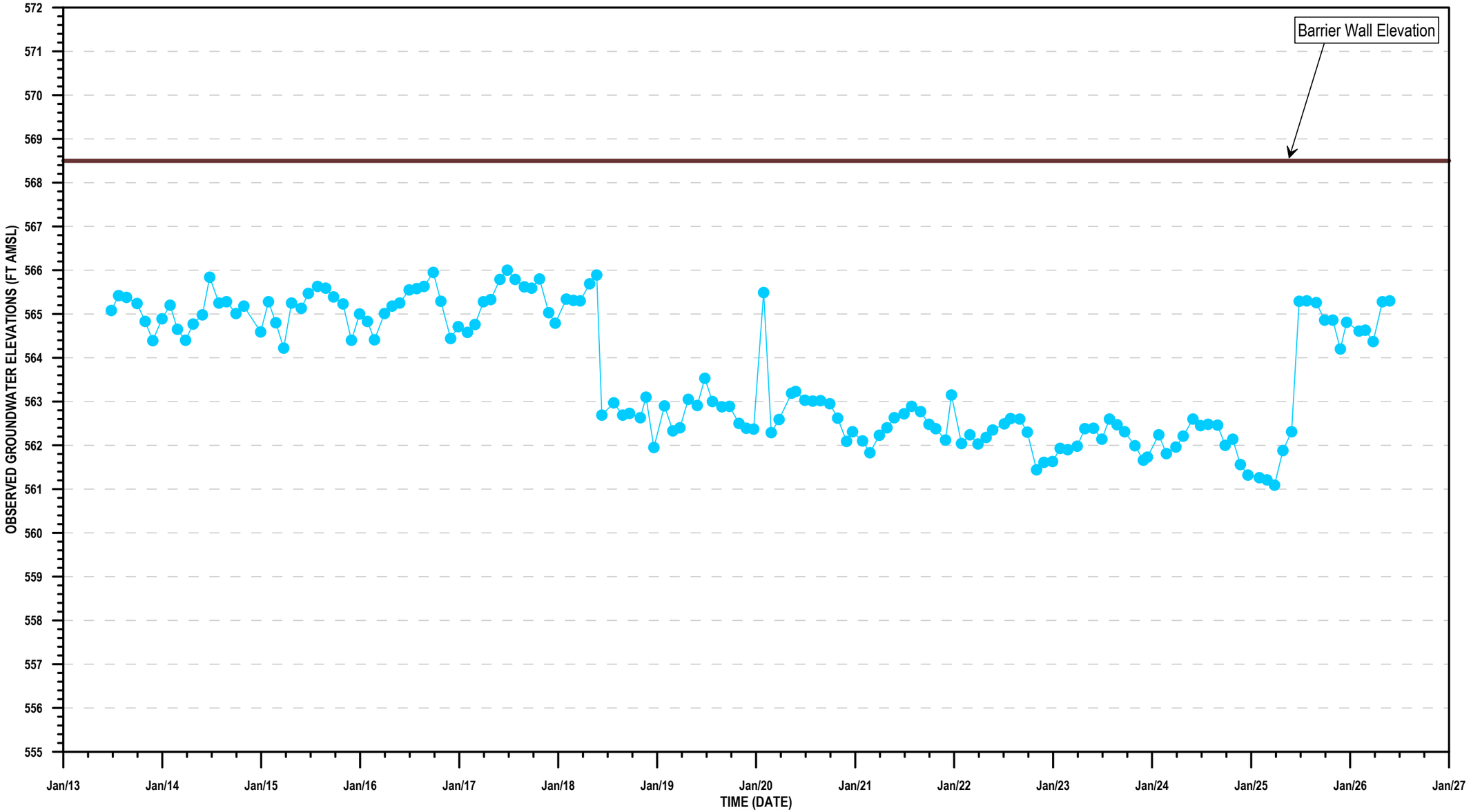
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-3

Project No. **007987**
Date **June 2026**

FIGURE B.15

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-3.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

OGC-8

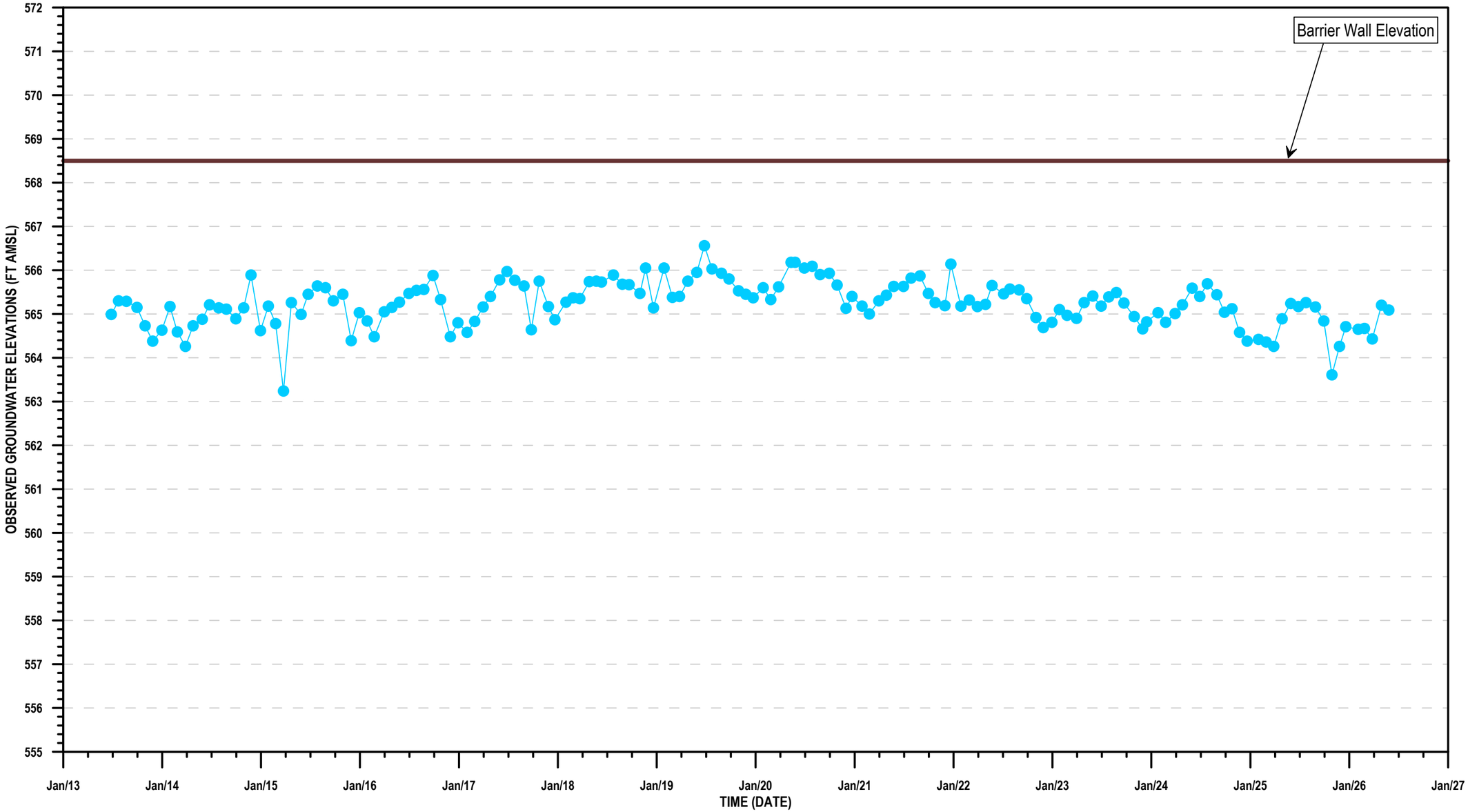
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-8

Project No. **007987**
Date **June 2026**

FIGURE B.16

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-8.grf
Plot Date: June 05 2026 10:06 AM



LEGEND

OGC-4

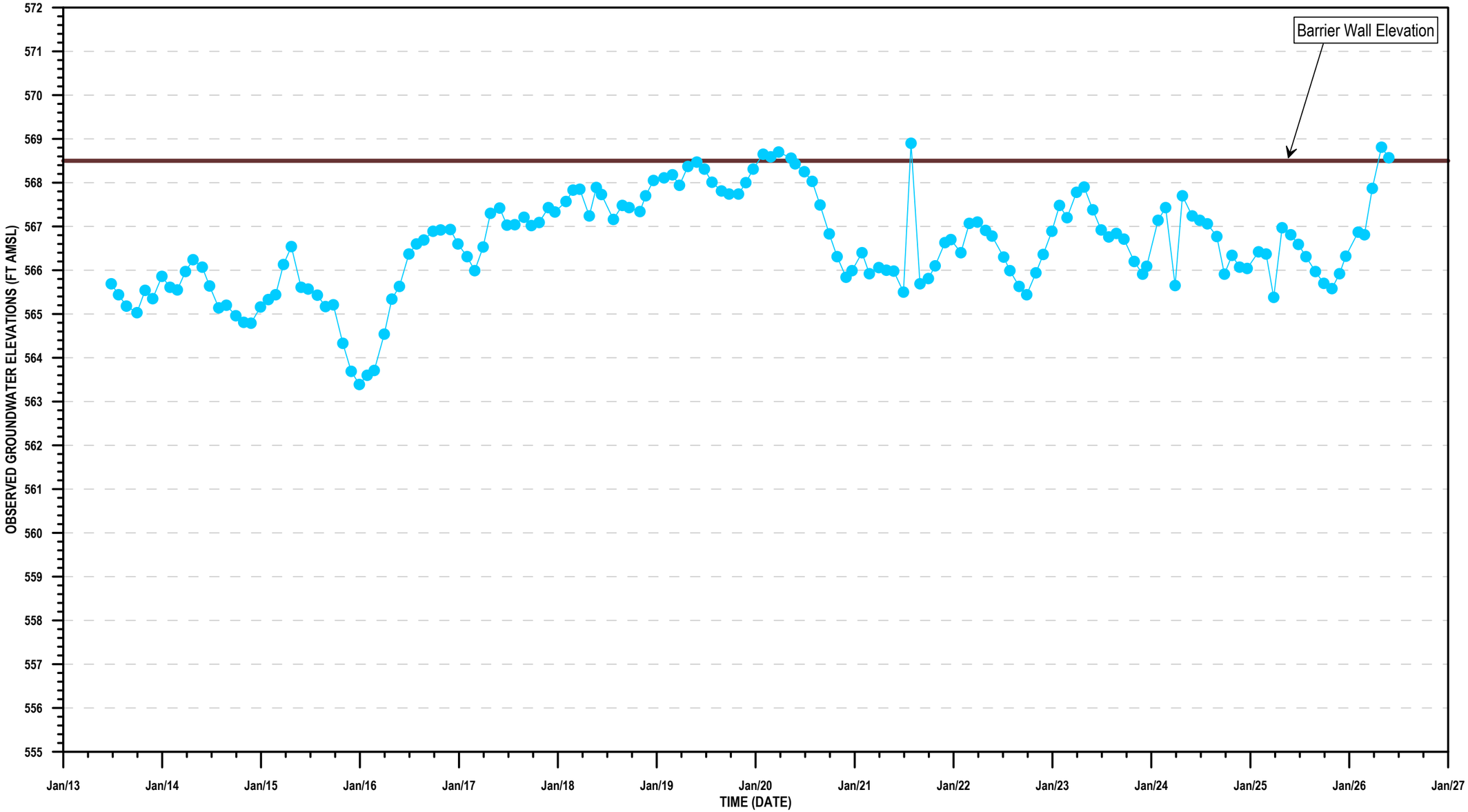
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT OGC-4

Project No. **007987**
Date **June 2026**

FIGURE B.17

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\OGC-4.grf
Plot Date: June 05 2026 9:06 AM



LEGEND

MH16

Gratwick Riverside Park
North Tonawanda, New York

OBSERVED GROUNDWATER ELEVATION VS TIME AT MH16

Project No. **007987**
Date **June 2026**

FIGURE B.18

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\Hydrographs\2026\MH16.grf
Plot Date: June 05 2026 9:06 AM

Appendix C

Purge Logs

GRATWICK RIVERSIDE PARK

OGC-1

Date: 5/1/2026 Job #: 7987

Crew: B.Clarke, G.Hartlaub

Well Condition: Good

Well Depth: 16.90 2" 0-17.17

Initial Water Level: 9.80

Volume Calculation: 16.90 - 9.80 = 7.1 × 0.16 = 1.14

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
13:50	1.15	8.59	1.02	10.38	73.0	Clear
13:55	2.30	8.27	1.02	9.84	58.2	Clear
14:00	3.45	8.20	1.03	9.95	1000	Cloudy
14:05	4.60	8.20	1.03	10.18	>1000	Cloudy/Brown

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear - tannish colour

Final Water Quality ~~Brown, cloudy~~ Clear

Final Water Level: 12.93

SAMPLE RECORD

Date: 5/1/26

Time: 1415

Crew: B.Clarke, G.Hartlaub

Method: Ded. Téflon Bailer

Sample ID: WG-007987-050126-GH-013

Water Quality: Clear

pH: 8.20

Conductivity: 1.03

Temperature: 10.18

Volume: ~5 gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: >1000

Comments: Turbidity got worse as purging continued

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

OGC-4

Date: 4/30/2026 Job #: 7987

Crew: G. Herbach, B. Clarke

Well Condition: Good

Well Depth: 2" 0-18.25

Initial Water Level: 9.46

Volume Calculation: 17.53-9.46 = 8.07 × 0.16 = 1.29 Gal × 3 = 3

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
10:35	1.3	11.01	0.641	10.46	101	Cloudy
10:41	2.6	11.29	0.648	10.06	98.1	"
10:50	3.9	11.15	0.590	9.58	33.4	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Dark / Cloudy

Final Water Quality Clear

Final Water Level: 9.43 ft BTOR

SAMPLE RECORD

Date: 4/30/2026

Time: 10:00

Crew: B. Clarke, G. Herbach

Method: Ded. Teflon Bailer

Sample ID: W6-007987-043026-GW-001

Water Quality: Clear

pH: 11.15

Conductivity: 0.590

Temperature: 9.58

Volume: ~4.5 Gal.

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NFQ 10035

Turbidity: 33.4

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

MW-9

Date: 4/30/2026 Job #: 7987

Crew: B. Clarke, G. Horbach

Well Condition: Good

Well Depth: 2" 0-22.33

Initial Water Level: 7.45

Volume Calculation: 20.50 - 7.45 = 13.05 x 0.16 = 2.09 Gal.

Purge Record

Time	Volume	pH	Cond.	Temp(°C)	Turbidity	Quality
11:17	2.1	11.66	2.31	10.85	18.8	Clear
11:25	4.2	11.76	2.51	11.08	13.7	Clear
11:30	6.3	11.84	2.58	10.90	15.9	Clear
11:38	8.4	11.88	2.59	10.66	19.5	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear

Final Water Quality Clear

Final Water Level: 7.43

SAMPLE RECORD

Date: 4/30/2026

Time: 11:40

Crew: B. Clarke, G. Horbach

Method: Ded. Teflon Bailer

Sample ID: WG-007987-043026-GH-002

Water Quality: Clear

pH: 11.88

Conductivity: 2.59

Temperature: 10.66

Volume: 8.4

Analysis: VOC's/SVOC's

Chain of Custody #: 480-2[illegible]394-42742.1

Sample Type: GW

Water Lever Tape #: AH08991

Horiba: NFO 10235

Turbidity: 19.5

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

MS/MSD

GRATWICK RIVERSIDE PARK

OGC-8

Date: 4/30/2026 Job #: 7987

Crew: B. Clarke, G. Herbst

Well Condition: Good

Well Depth: 2" 0-22.5

Initial Water Level: ~~23.45~~ 7.83 ft

Volume Calculation: 23.45 - 7.83 = 15.62 x 0.16 = 2.5 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
12:30	2.5	11.93	1.38	10.72	36.0	Dark
12:40	5.0	11.96	1.45	10.64	29.1	Clear
12:50	7.5	11.99	1.48	10.62	31.1	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Dark / Murky

Final Water Quality Clear

Final Water Level: 8.73

SAMPLE RECORD

Date: 4/30/2026

Time: 1245

Crew: B. Clarke, G. Herbst

Method: Ded. Teflon Bailer

Sample ID: WG-007987-043026-GW-003

Water Quality: Clear

pH: 11.99

Conductivity: 1.48

Temperature: 10.62

Volume: 7.8 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 31.1

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

MW-8

Date: 4/30/2026 Job #: 7987

Crew: B. Clarke, G. Herlach

Well Condition: Good

Well Depth: 24.05 2" 0-24.00

Initial Water Level: 5.70

Volume Calculation: 24.05-5.70 = 18.35 x 0.16 = 2.94 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
13:30	2.95	11.97	3.03	12.19	11.50	Clear
13:35	5.90	12.02	3.19	11.43	5.86	Clear
13:40	8.85	12.01	3.19	11.71	8.43	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear

Final Water Quality Clear

Final Water Level: 5.75

SAMPLE RECORD

Date: 4/30/2026

Time: 13:45

Crew: G. Herlach, B. Clarke

Method: Ded. Teflon Bailer

Sample ID: WG-007987-043026-GH-004

Water Quality: Clear

pH: 12.01

Conductivity: 3.19

Temperature: 11.71

Volume: ~9.0 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213994-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 8.43

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

OGC-3

Date: 4/30/26 Job #: 7987

Crew: B. Clarke G. Horlach

Well Condition: Poor

Well Depth: 29.30 2" 0-24

Initial Water Level: 7.11

Volume Calculation: 29.30 - 7.11 = 17.19 × 0.16 = 2.75 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
13:05	2.75	11.97	2.13	12.54	46.0	Clear
14:12	5.50	12.05	2.29	11.77	16.0	Clear
14:19	8.25	12.05	2.29	11.54	15.8	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear

Final Water Quality Clear

Final Water Level: 9.10

SAMPLE RECORD

Date: 4/30/26

Time: 14:20

Crew: G. Horlach B. Clarke

Method: Ded. Teflon Bailer

Sample ID: WG-007987-043026-GH-005

Water Quality: Clear

pH: 12.05

Conductivity: 2.29

Temperature: 11.54

Volume: ~ 8.5 Gal.

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 15.8

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

OGC-7

Date: 4/30/2026 Job #: 7987

Crew: B. Clarke, G. Hartlett

Well Condition: Good

Well Depth: 20.58 2" 0-22.5

Initial Water Level: 7.30

Volume Calculation: 20.58-7.30= 13.28 × 0.16= 2.12 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
14:50	2.12	11.44	1.11	10.49	34.4	Clear
14:55	4.24	11.46	1.10	10.27	16.5	Clear
15:00	6.36	11.46	1.09	10.14	16.5	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear

Final Water Quality Clear

Final Water Level: 7.37

SAMPLE RECORD

Date: 4/30/2026

Time: 15:05

Crew: B Clarke, G Hartlett

Method: Ded. Teflon Bailer

Sample ID: WG-007987-043026-GH-006

Water Quality: Clear

pH: 11.46

Conductivity: 1.09

Temperature: 10.14

Volume: ~6.45 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213794-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 16.5

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

(DUP)

GRATWICK RIVERSIDE PARK

OGC-2

Date: 5/1/2026 Job #: 7987

Crew: B. Clarke, G. Horlacher

Well Condition: Good

Well Depth: 29.95 2" 0-27.2

Initial Water Level: 8.78

Volume Calculation: $21.17 \times 0.16 = 3.39$ Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
9:41	3.39	7.22	0.779	12.15	>1000	Dark
10:05	6.78	8.55	0.993	11.82	>1000	Dark

Purge Method: Dedicated teflon bailer

Initial Water Quality Dark/Cloudy

Final Water Quality Dark/Cloudy

Final Water Level: 29.1

SAMPLE RECORD

Date: 5/1/2026

Time: 1055

Crew: B. Clarke, G. Horlacher

Method: Ded. Teflon Bailer

Sample ID: WG-007987-050126-GH-007/-008

Water Quality: Dark Cloudy

pH: 8.55

Conductivity: 0.993

Temperature: 11.82

Volume: 8.8 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: >1000

Comments: Went dry let recharge and sampled (8.5 Gal)

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

MW-7

Date: 5/1/2026 Job #: 7987

Crew: B. Clarke, G. Horlock

Well Condition: Good

Well Depth: 31.15 2" 0-28.33

Initial Water Level: 6.97

Volume Calculation: 24.18 × 0.16 = 3.87 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
10:17	3.9	8.86	0.932	11.95	>1000	Black
10:40	~~7.8~~	8.66	0.986	12.01	>1000	Black

Purge Method: Dedicated teflon bailer

Initial Water Quality Black

Final Water Quality Black

Final Water Level: 27.0

SAMPLE RECORD

Date: 5/1/2026

Time: 11:25

Crew: B. Clarke, G. Horlock

Method: Ded. Teflon Bailer

Sample ID: WG-007987-050126-GH-009

Water Quality: Black / Cloudy

pH: 8.66

Conductivity: 0.986

Temperature: 12.01

Volume: ~ 8.7 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF089911

Horiba: NF0~~77~~10035

Turbidity: >1000

Comments: Went dry and then sampled when recharged (8.5 Gal)

Signature

7897 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

OGC-6

Date: 5/1/26 Job #: 7987

Crew: B. Clarke, G. Hardash

Well Condition: Good

Well Depth: 22.88 2" 0-23.59

Initial Water Level: 11.38

Volume Calculation: 11.50 x 0.16 = 1.84 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
11:47	1.84	9.15	1.01	10.60	265	Cloudy
11:51	3.6	10.14	0.867	10.56	115	Cloudy
11:55	5.4	10.32	0.885	10.26	47.7	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Cloudy

Final Water Quality Clear

Final Water Level: 11.40

SAMPLE RECORD

Date: 5/1/2026

Time: 12:00

Crew: B. Clarke, G. Hardash

Method: Ded. Teflon Bailer

Sample ID: WG-007987-050126-GW-010

Water Quality: Clear

pH: 10.32

Conductivity: 0.885

Temperature: 10.26

Volume: ~5.6 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 47.7

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

OGC-5

Date: 5/1/2026 Job #: 7987

Crew: B.Clarke, G.Hudak

Well Condition: Good

Well Depth: 17.60 2" 0-14.59

Initial Water Level: 8.90

Volume Calculation: 8.7 x 0.16 = 1.4 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
12:30	1.4	7.71	1.93	10.75	245	Cloudy
~~13:05~~						

Purge Method: Dedicated teflon bailer

Initial Water Quality Cloudy

Final Water Quality Cloudy

Final Water Level: 16.70

SAMPLE RECORD

Date: 5/1/26

Time: 13:10

Crew: B.Clarke, G.Hudak

Method: Ded. Teflon Bailer

Sample ID: WG-007987-050126-GH-011

Water Quality: Cloudy

pH: 7.71

Conductivity: 1.93

Temperature: 10.75

Volume: ~2 gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF08991

Horiba: NF010035

Turbidity: 245

Comments: went dry at 2 gal
- full of ants in riser

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

GRATWICK RIVERSIDE PARK

MW-6

Date: 5/1/26 Job #: 7987

Crew: B. Clarke, G. Herbach

Well Condition: Good

Well Depth: 19.79 2" 0-28.33

Initial Water Level: 7.33

Volume Calculation: 12.46 x 0.16 = 2.0 Gal

Purge Record

Time	Volume	pH	Cond.	Temp.	Turbidity	Quality
12:45	2.0	11.22	1.93	10.67	13.4	Clear
12:49	4.0	11.46	2.05	10.47	7.6	Clear
12.52	6.0	11.50	2.07	10.21	11.1	Clear

Purge Method: Dedicated teflon bailer

Initial Water Quality Clear

Final Water Quality Clear

Final Water Level: 7.56

SAMPLE RECORD

Date: 5/1/2026

Time: 13:00

Crew: B. Clarke, G. Herbach

Method: Ded. Teflon Bailer

Sample ID: LJG-007987-050126-GW-012

Water Quality: Clear

pH: 11.50

Conductivity: 2.07

Temperature: 10.21

Volume: ~6.2 Gal

Analysis: VOC's/SVOC's

Chain of Custody #: 480-213394-42742.1

Sample Type: GW

Water Lever Tape #: NF0899

Horiba: NF0100135

Turbidity: 11.1

Comments:

Signature

7987 (CC:K.Schmitke/B.Zoltowski/File)

Appendix D

Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L2567176
Client:	North Tonawanda WWTP 830 River Rd North Tonawanda, NY 14120
ATTN:	Mike Gibbons
Phone:	(716) 695-8560
Project Name:	GRP
Project Number:	GRP
Report Date:	03/03/26

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Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2567176-01	GRP	WATER	GRP PUMP HOUSE	10/23/25 09:45	10/23/25
L2567176-02	GRP	WATER	GRP PUMP HOUSE	10/23/25 09:40	10/23/25
L2567176-03	TRIP BLANK	WATER	GRP PUMP HOUSE	10/23/25 00:00	10/23/25

Project Name:	GRP	**Lab Number:**	L2567176
Project Number:	GRP	**Report Date:**	03/03/26

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GRP	**Lab Number:**	L2567176
Project Number:	GRP	**Report Date:**	03/03/26

Case Narrative (continued)

Report Revision

March 03, 2026: The Volatile Organics and Total Metals analyte lists have been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Sulfide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2567176-02: Sample containers for Total Metals were received, but not listed on the chain of custody. At the client's request, the analysis was performed.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 03/03/26

ORGANICS

VOLATILES

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-01
Client ID: GRP
Sample Location: GRP PUMP HOUSE

Date Collected: 10/23/25 09:45
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 10/26/25 19:44
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	1.8		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	2.0		ug/l	1.0	0.26	1
Chlorobenzene	2.2	J	ug/l	3.5	0.30	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	0.79	J	ug/l	1.0	0.38	1
Toluene	7.3		ug/l	1.0	0.31	1
Ethylbenzene	2.1		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	3.9		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	1.7		ug/l	1.5	0.33	1
Trichloroethene	9.0		ug/l	1.0	0.33	1

Project Name: GRP **Lab Number:** L2567176

Project Number: GRP **Report Date:** 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-01 Date Collected: 10/23/25 09:45

Client ID: GRP Date Received: 10/23/25

Sample Location: GRP PUMP HOUSE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	0.85	J	ug/l	5.0	0.28	1
1,3-Dichlorobenzene	3.4	J	ug/l	5.0	0.27	1
1,4-Dichlorobenzene	14		ug/l	5.0	0.29	1
p/m-Xylene	6.8		ug/l	2.0	0.30	1
o-xylene	3.5		ug/l	1.0	0.34	1
Xylenes, Total	10		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	2.6	J	ug/l	10	2.4	1
2-Butanone	ND		ug/l	10	1.0	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	113		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	103		60-140

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-03
Client ID: TRIP BLANK
Sample Location: GRP PUMP HOUSE

Date Collected: 10/23/25 00:00
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 128,624.1
Analytical Date: 10/25/25 18:39
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	1.0	0.56	1
1,1-Dichloroethane	ND		ug/l	1.5	0.40	1
Chloroform	ND		ug/l	1.0	0.38	1
Carbon tetrachloride	ND		ug/l	1.0	0.24	1
1,2-Dichloropropane	ND		ug/l	3.5	0.46	1
Dibromochloromethane	ND		ug/l	1.0	0.27	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34	1
2-Chloroethylvinyl ether	ND		ug/l	10	0.35	1
Tetrachloroethene	ND		ug/l	1.0	0.26	1
Chlorobenzene	ND		ug/l	3.5	0.30	1
1,2-Dichloroethane	ND		ug/l	1.5	0.47	1
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29	1
Bromodichloromethane	ND		ug/l	1.0	0.28	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31	1
Bromoform	ND		ug/l	1.0	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20	1
Benzene	ND		ug/l	1.0	0.38	1
Toluene	ND		ug/l	1.0	0.31	1
Ethylbenzene	ND		ug/l	1.0	0.28	1
Chloromethane	ND		ug/l	5.0	1.0	1
Bromomethane	ND		ug/l	5.0	1.2	1
Vinyl chloride	ND		ug/l	1.0	0.38	1
Chloroethane	ND		ug/l	2.0	0.37	1
1,1-Dichloroethene	ND		ug/l	1.0	0.31	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33	1
Trichloroethene	ND		ug/l	1.0	0.33	1

Project Name: GRP **Lab Number:** L2567176

Project Number: GRP **Report Date:** 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-03 Date Collected: 10/23/25 00:00

Client ID: TRIP BLANK Date Received: 10/23/25

Sample Location: GRP PUMP HOUSE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28	1
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27	1
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29	1
p/m-Xylene	ND		ug/l	2.0	0.30	1
o-xylene	ND		ug/l	1.0	0.34	1
Xylenes, Total	ND		ug/l	1.0	0.30	1
Styrene	ND		ug/l	1.0	0.37	1
Acetone	ND		ug/l	10	2.4	1
2-Butanone	ND		ug/l	10	1.0	1
Acrolein	ND		ug/l	8.0	1.8	1
Acrylonitrile	ND		ug/l	10	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	100		60-140
Fluorobenzene	90		60-140
4-Bromofluorobenzene	103		60-140

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 10/25/25 10:41
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG2132940-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	ND		ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 10/25/25 10:41
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG2132940-4					
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
Trichloroethene	ND		ug/l	1.0	0.33
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
p/m-Xylene	ND		ug/l	2.0	0.30
o-xylene	ND		ug/l	1.0	0.34
Xylenes, Total	ND		ug/l	1.0	0.30
Styrene	ND		ug/l	1.0	0.37
Acetone	ND		ug/l	10	2.4
2-Butanone	ND		ug/l	10	1.0
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	108		60-140
Fluorobenzene	93		60-140
4-Bromofluorobenzene	97		60-140

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 10/26/25 16:47
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2133187-4					
Methylene chloride	ND		ug/l	1.0	0.56
1,1-Dichloroethane	ND		ug/l	1.5	0.40
Chloroform	ND		ug/l	1.0	0.38
Carbon tetrachloride	ND		ug/l	1.0	0.24
1,2-Dichloropropane	ND		ug/l	3.5	0.46
Dibromochloromethane	ND		ug/l	1.0	0.27
1,1,2-Trichloroethane	ND		ug/l	1.5	0.34
2-Chloroethylvinyl ether	ND		ug/l	10	0.35
Tetrachloroethene	ND		ug/l	1.0	0.26
Chlorobenzene	ND		ug/l	3.5	0.30
1,2-Dichloroethane	ND		ug/l	1.5	0.47
1,1,1-Trichloroethane	ND		ug/l	2.0	0.29
Bromodichloromethane	ND		ug/l	1.0	0.28
trans-1,3-Dichloropropene	ND		ug/l	1.5	0.31
cis-1,3-Dichloropropene	ND		ug/l	1.5	0.34
1,3-Dichloropropene, Total	ND		ug/l	1.5	0.31
Bromoform	ND		ug/l	1.0	0.22
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.20
Benzene	ND		ug/l	1.0	0.38
Toluene	ND		ug/l	1.0	0.31
Ethylbenzene	ND		ug/l	1.0	0.28
Chloromethane	ND		ug/l	5.0	1.0
Bromomethane	ND		ug/l	5.0	1.2
Vinyl chloride	ND		ug/l	1.0	0.38

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 128,624.1
Analytical Date: 10/26/25 16:47
Analyst: GMT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG2133187-4					
Chloroethane	ND		ug/l	2.0	0.37
1,1-Dichloroethene	ND		ug/l	1.0	0.31
trans-1,2-Dichloroethene	ND		ug/l	1.5	0.33
Trichloroethene	ND		ug/l	1.0	0.33
1,2-Dichlorobenzene	ND		ug/l	5.0	0.28
1,3-Dichlorobenzene	ND		ug/l	5.0	0.27
1,4-Dichlorobenzene	ND		ug/l	5.0	0.29
p/m-Xylene	ND		ug/l	2.0	0.30
o-xylene	ND		ug/l	1.0	0.34
Xylenes, Total	ND		ug/l	1.0	0.30
Styrene	ND		ug/l	1.0	0.37
Acetone	ND		ug/l	10	2.4
2-Butanone	ND		ug/l	10	1.0
Acrolein	ND		ug/l	8.0	1.8
Acrylonitrile	ND		ug/l	10	0.33

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	110		60-140
Fluorobenzene	94		60-140
4-Bromofluorobenzene	103		60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG2132940-3								
Methylene chloride	95		-		60-140	-		
1,1-Dichloroethane	95		-		50-150	-		
Chloroform	100		-		70-135	-		
Carbon tetrachloride	115		-		70-130	-		
1,2-Dichloropropane	90		-		35-165	-		
Dibromochloromethane	115		-		70-135	-		
1,1,2-Trichloroethane	110		-		70-130	-		
2-Chloroethylvinyl ether	100		-		1-225	-		
Tetrachloroethene	120		-		70-130	-		
Chlorobenzene	95		-		65-135	-		
1,2-Dichloroethane	100		-		70-130	-		
1,1,1-Trichloroethane	110		-		70-130	-		
Bromodichloromethane	105		-		65-135	-		
trans-1,3-Dichloropropene	100		-		50-150	-		
cis-1,3-Dichloropropene	100		-		25-175	-		
Bromoform	110		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		60-140	-		
Benzene	105		-		65-135	-		
Toluene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG2132940-3								
Ethylbenzene	105		-		60-140	-		
Chloromethane	105		-		1-205	-		
Bromomethane	80		-		15-185	-		
Vinyl chloride	130		-		5-195	-		
Chloroethane	110		-		40-160	-		
1,1-Dichloroethene	100		-		50-150	-		
trans-1,2-Dichloroethene	105		-		70-130	-		
Trichloroethene	105		-		65-135	-		
1,2-Dichlorobenzene	100		-		65-135	-		
1,3-Dichlorobenzene	90		-		70-130	-		
1,4-Dichlorobenzene	100		-		65-135	-		
p/m-Xylene	102		-		60-140	-		
o-xylene	95		-		60-140	-		
Styrene	95		-		60-140	-		
Acetone	116		-		40-160	-		
2-Butanone	108		-		60-140	-		
Acrolein	100		-		60-140	-		
Acrylonitrile	110		-		60-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG2132940-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	114				60-140
Fluorobenzene	96				60-140
4-Bromofluorobenzene	98				60-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2133187-3								
Methylene chloride	90		-		60-140	-		
1,1-Dichloroethane	95		-		50-150	-		
Chloroform	100		-		70-135	-		
Carbon tetrachloride	115		-		70-130	-		
1,2-Dichloropropane	90		-		35-165	-		
Dibromochloromethane	115		-		70-135	-		
1,1,2-Trichloroethane	105		-		70-130	-		
2-Chloroethylvinyl ether	140		-		1-225	-		
Tetrachloroethene	125		-		70-130	-		
Chlorobenzene	100		-		65-135	-		
1,2-Dichloroethane	95		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Bromodichloromethane	110		-		65-135	-		
trans-1,3-Dichloropropene	100		-		50-150	-		
cis-1,3-Dichloropropene	100		-		25-175	-		
Bromoform	130		-		70-130	-		
1,1,2,2-Tetrachloroethane	95		-		60-140	-		
Benzene	95		-		65-135	-		
Toluene	110		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2133187-3								
Ethylbenzene	100		-		60-140	-		
Chloromethane	95		-		1-205	-		
Bromomethane	70		-		15-185	-		
Vinyl chloride	100		-		5-195	-		
Chloroethane	110		-		40-160	-		
1,1-Dichloroethene	100		-		50-150	-		
trans-1,2-Dichloroethene	100		-		70-130	-		
Trichloroethene	100		-		65-135	-		
1,2-Dichlorobenzene	105		-		65-135	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	105		-		65-135	-		
p/m-Xylene	105		-		60-140	-		
o-xylene	100		-		60-140	-		
Styrene	100		-		60-140	-		
Acetone	100		-		40-160	-		
2-Butanone	96		-		60-140	-		
Acrolein	100		-		60-140	-		
Acrylonitrile	95		-		60-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG2133187-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	118				60-140
Fluorobenzene	97				60-140
4-Bromofluorobenzene	102				60-140

SEMIVOLATILES

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-02
Client ID: GRP
Sample Location: GRP PUMP HOUSE

Date Collected: 10/23/25 09:40
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 129,625.1
Analytical Date: 10/26/25 19:24
Analyst: CMM

Extraction Method: EPA 625.1
Extraction Date: 10/24/25 23:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.00	0.407	1
Benzidine[1]	ND		ug/l	20.0	12.1	1
1,2,4-Trichlorobenzene	7.18		ug/l	5.00	1.49	1
Hexachlorobenzene	ND		ug/l	2.00	0.952	1
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600	1
2-Chloronaphthalene	ND		ug/l	2.00	0.319	1
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457	1
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636	1
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631	1
Azobenzene[1]	ND		ug/l	2.00	0.889	1
Fluoranthene	ND		ug/l	2.00	0.736	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371	1
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585	1
Hexachlorobutadiene	ND		ug/l	2.00	0.921	1
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36	1
Hexachloroethane	ND		ug/l	2.00	0.973	1
Isophorone	ND		ug/l	5.00	0.546	1
Naphthalene	ND		ug/l	2.00	0.896	1
Nitrobenzene	ND		ug/l	2.00	0.788	1
NDPA/DPA[1]	ND		ug/l	2.00	0.783	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70	1
Butyl benzyl phthalate	ND		ug/l	5.00	0.670	1
Di-n-butylphthalate	ND		ug/l	5.00	0.631	1
Di-n-octylphthalate	ND		ug/l	5.00	0.633	1
Diethyl phthalate	ND		ug/l	5.00	0.717	1

Project Name: GRP **Lab Number:** L2567176

Project Number: GRP **Report Date:** 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-02 Date Collected: 10/23/25 09:40

Client ID: GRP Date Received: 10/23/25

Sample Location: GRP PUMP HOUSE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dimethyl phthalate	ND		ug/l	5.00	1.40	1
Benzo(a)anthracene	ND		ug/l	2.00	0.665	1
Benzo(a)pyrene	ND		ug/l	2.00	0.610	1
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741	1
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739	1
Chrysene	ND		ug/l	2.00	0.668	1
Acenaphthylene	ND		ug/l	2.00	0.930	1
Anthracene	ND		ug/l	2.00	0.791	1
Benzo(ghi)perylene	ND		ug/l	2.00	0.672	1
Fluorene	ND		ug/l	2.00	0.927	1
Phenanthrene	ND		ug/l	2.00	0.818	1
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633	1
Pyrene	ND		ug/l	2.00	0.728	1
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407	1
2,4,6-Trichlorophenol	1.04	J	ug/l	5.00	0.607	1
p-Chloro-m-cresol	ND		ug/l	2.00	0.533	1
2-Chlorophenol	ND		ug/l	2.00	0.513	1
2,4-Dichlorophenol	ND		ug/l	5.00	0.554	1
2,4-Dimethylphenol	ND		ug/l	5.00	0.851	1
2-Nitrophenol	ND		ug/l	5.00	0.604	1
4-Nitrophenol	ND		ug/l	10.0	0.834	1
2,4-Dinitrophenol	ND		ug/l	20.0	1.21	1
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20	1
Pentachlorophenol	1.22	J	ug/l	5.00	0.622	1
Phenol	1.96	J	ug/l	5.00	0.262	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-87
Phenol-d6	29		16-65
Nitrobenzene-d5	69		42-122
2-Fluorobiphenyl	73		46-121
2,4,6-Tribromophenol	83		45-128
4-Terphenyl-d14	76		47-138

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 10/25/25 14:05
Analyst: SMZ

Extraction Method: EPA 625.1
Extraction Date: 10/24/25 18:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG2132500-1					
Acenaphthene	ND		ug/l	2.00	0.407
Benzidine[1]	ND		ug/l	20.0	12.1
1,2,4-Trichlorobenzene	ND		ug/l	5.00	1.49
Hexachlorobenzene	ND		ug/l	2.00	0.952
Bis(2-chloroethyl)ether	ND		ug/l	2.00	0.600
2-Chloronaphthalene	ND		ug/l	2.00	0.319
3,3'-Dichlorobenzidine	ND		ug/l	5.00	0.457
2,4-Dinitrotoluene	ND		ug/l	5.00	0.636
2,6-Dinitrotoluene	ND		ug/l	5.00	0.631
Azobenzene[1]	ND		ug/l	2.00	0.889
Fluoranthene	ND		ug/l	2.00	0.736
4-Chlorophenyl phenyl ether	ND		ug/l	2.00	0.371
4-Bromophenyl phenyl ether	ND		ug/l	2.00	0.447
Bis(2-chloroisopropyl)ether	ND		ug/l	2.00	0.822
Bis(2-chloroethoxy)methane	ND		ug/l	5.00	0.585
Hexachlorobutadiene	ND		ug/l	2.00	0.921
Hexachlorocyclopentadiene[1]	ND		ug/l	10.0	1.36
Hexachloroethane	ND		ug/l	2.00	0.973
Isophorone	ND		ug/l	5.00	0.546
Naphthalene	ND		ug/l	2.00	0.896
Nitrobenzene	ND		ug/l	2.00	0.788
NDPA/DPA[1]	ND		ug/l	2.00	0.783
n-Nitrosodi-n-propylamine	ND		ug/l	5.00	0.630
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.20	1.70

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 10/25/25 14:05
Analyst: SMZ

Extraction Method: EPA 625.1
Extraction Date: 10/24/25 18:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG2132500-1					
Butyl benzyl phthalate	ND		ug/l	5.00	0.670
Di-n-butylphthalate	ND		ug/l	5.00	0.631
Di-n-octylphthalate	ND		ug/l	5.00	0.633
Diethyl phthalate	ND		ug/l	5.00	0.717
Dimethyl phthalate	ND		ug/l	5.00	1.40
Benzo(a)anthracene	ND		ug/l	2.00	0.665
Benzo(a)pyrene	ND		ug/l	2.00	0.610
Benzo(b)fluoranthene	ND		ug/l	2.00	0.741
Benzo(k)fluoranthene	ND		ug/l	2.00	0.739
Chrysene	ND		ug/l	2.00	0.668
Acenaphthylene	ND		ug/l	2.00	0.930
Anthracene	ND		ug/l	2.00	0.791
Benzo(ghi)perylene	ND		ug/l	2.00	0.672
Fluorene	ND		ug/l	2.00	0.927
Phenanthrene	ND		ug/l	2.00	0.818
Dibenzo(a,h)anthracene	ND		ug/l	2.00	0.687
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.00	0.633
Pyrene	ND		ug/l	2.00	0.728
n-Nitrosodimethylamine[1]	ND		ug/l	2.00	0.407
2,4,6-Trichlorophenol	ND		ug/l	5.00	0.607
p-Chloro-m-cresol	ND		ug/l	2.00	0.533
2-Chlorophenol	ND		ug/l	2.00	0.513
2,4-Dichlorophenol	ND		ug/l	5.00	0.554
2,4-Dimethylphenol	ND		ug/l	5.00	0.851

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 129,625.1
Analytical Date: 10/25/25 14:05
Analyst: SMZ

Extraction Method: EPA 625.1
Extraction Date: 10/24/25 18:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG2132500-1					
2-Nitrophenol	ND		ug/l	5.00	0.604
4-Nitrophenol	ND		ug/l	10.0	0.834
2,4-Dinitrophenol	ND		ug/l	20.0	1.21
4,6-Dinitro-o-cresol	ND		ug/l	10.0	1.20
Pentachlorophenol	ND		ug/l	5.00	0.622
Phenol	ND		ug/l	5.00	0.262

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		25-87
Phenol-d6	31		16-65
Nitrobenzene-d5	68		42-122
2-Fluorobiphenyl	78		46-121
2,4,6-Tribromophenol	82		45-128
4-Terphenyl-d14	88		47-138

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2132500-2								
Acenaphthene	74		-		47-145	-		
Benzidine[1]	8		-		0-70	-		
1,2,4-Trichlorobenzene	68		-		44-142	-		
Hexachlorobenzene	82		-		1-152	-		
Bis(2-chloroethyl)ether	66		-		12-158	-		
2-Chloronaphthalene	75		-		60-120	-		
3,3'-Dichlorobenzidine	34		-		1-262	-		
2,4-Dinitrotoluene	92		-		39-139	-		
2,6-Dinitrotoluene	90		-		50-158	-		
Azobenzene[1]	74		-		44-115	-		
Fluoranthene	83		-		26-137	-		
4-Chlorophenyl phenyl ether	79		-		25-158	-		
4-Bromophenyl phenyl ether	82		-		53-127	-		
Bis(2-chloroisopropyl)ether	55		-		36-166	-		
Bis(2-chloroethoxy)methane	70		-		33-184	-		
Hexachlorobutadiene	68		-		24-120	-		
Hexachlorocyclopentadiene[1]	66		-		7-118	-		
Hexachloroethane	59		-		40-120	-		
Isophorone	72		-		21-196	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2132500-2								
Naphthalene	70		-		21-133	-		
Nitrobenzene	67		-		35-180	-		
NDPA/DPA[1]	82		-		45-112	-		
n-Nitrosodi-n-propylamine	71		-		1-230	-		
Bis(2-ethylhexyl)phthalate	77		-		8-158	-		
Butyl benzyl phthalate	83		-		1-140	-		
Di-n-butylphthalate	87		-		1-120	-		
Di-n-octylphthalate	80		-		19-132	-		
Diethyl phthalate	80		-		1-120	-		
Dimethyl phthalate	82		-		1-120	-		
Benzo(a)anthracene	83		-		33-143	-		
Benzo(a)pyrene	90		-		17-163	-		
Benzo(b)fluoranthene	90		-		24-159	-		
Benzo(k)fluoranthene	79		-		11-162	-		
Chrysene	79		-		17-168	-		
Acenaphthylene	81		-		33-145	-		
Anthracene	80		-		27-133	-		
Benzo(ghi)perylene	76		-		1-219	-		
Fluorene	80		-		59-121	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2132500-2								
Phenanthrene	77		-		54-120	-		
Dibenzo(a,h)anthracene	82		-		1-227	-		
Indeno(1,2,3-cd)pyrene	85		-		1-171	-		
Pyrene	81		-		52-120	-		
n-Nitrosodimethylamine[1]	45		-		15-68	-		
2,4,6-Trichlorophenol	91		-		37-144	-		
p-Chloro-m-cresol	80		-		68-130	-		
2-Chlorophenol	69		-		23-124	-		
2,4-Dichlorophenol	80		-		39-135	-		
2,4-Dimethylphenol	72		-		32-120	-		
2-Nitrophenol	85		-		29-182	-		
4-Nitrophenol	49		-		1-132	-		
2,4-Dinitrophenol	102		-		1-191	-		
4,6-Dinitro-o-cresol	97		-		56-130	-		
Pentachlorophenol	99		-		14-176	-		
Phenol	35		-		5-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG2132500-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48				25-87
Phenol-d6	34				16-65
Nitrobenzene-d5	69				42-122
2-Fluorobiphenyl	77				46-121
2,4,6-Tribromophenol	89				45-128
4-Terphenyl-d14	81				47-138

METALS

Project Name: GRP
Project Number: GRP
Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-02
Client ID: GRP
Sample Location: GRP PUMP HOUSE
Date Collected: 10/23/25 09:40
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.361		mg/l	0.100	0.0318	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Arsenic, Total	ND		mg/l	0.0050	0.0019	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Barium, Total	0.0704		mg/l	0.0100	0.0021	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Iron, Total	0.0819		mg/l	0.0500	0.0090	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Magnesium, Total	1.51		mg/l	0.100	0.0153	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Manganese, Total	0.0060	J	mg/l	0.0100	0.0016	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Mercury, Total	0.00012	J	mg/l	0.00020	0.00009	1	10/29/25 07:35	11/01/25 15:11	EPA 245.1	3,245.1	RDB
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Sodium, Total	168.		mg/l	2.00	0.120	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS
Zinc, Total	ND		mg/l	0.0050	0.0021	1	10/29/25 06:58	11/04/25 11:43	EPA 3005A	19,200.7	LRS

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG2134129-1										
Aluminum, Total	ND		mg/l	0.100	0.0318	1	10/29/25 06:58	11/04/25 14:59	19,200.7	MJR
Antimony, Total	ND		mg/l	0.0500	0.0071	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Arsenic, Total	0.0022	J	mg/l	0.0050	0.0019	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Barium, Total	ND		mg/l	0.0100	0.0021	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Beryllium, Total	ND		mg/l	0.0050	0.0009	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Cadmium, Total	ND		mg/l	0.0050	0.0010	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Chromium, Total	ND		mg/l	0.0100	0.0021	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Copper, Total	ND		mg/l	0.0100	0.0022	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Iron, Total	ND		mg/l	0.0500	0.0090	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Lead, Total	ND		mg/l	0.0100	0.0027	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Magnesium, Total	ND		mg/l	0.100	0.0153	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Manganese, Total	ND		mg/l	0.0100	0.0016	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Nickel, Total	ND		mg/l	0.0250	0.0024	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Selenium, Total	ND		mg/l	0.0100	0.0035	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Silver, Total	ND		mg/l	0.0070	0.0028	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Sodium, Total	ND		mg/l	2.00	0.120	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM
Zinc, Total	ND		mg/l	0.0050	0.0021	1	10/29/25 06:58	10/30/25 11:05	19,200.7	EFM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG2134134-1										
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	10/29/25 07:35	11/01/25 14:52	3,245.1	RDB

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG2134129-2								
Aluminum, Total	106		-		85-115	-		
Antimony, Total	104		-		85-115	-		
Arsenic, Total	105		-		85-115	-		
Barium, Total	103		-		85-115	-		
Beryllium, Total	103		-		85-115	-		
Cadmium, Total	99		-		85-115	-		
Chromium, Total	103		-		85-115	-		
Copper, Total	106		-		85-115	-		
Iron, Total	103		-		85-115	-		
Lead, Total	104		-		85-115	-		
Magnesium, Total	103		-		85-115	-		
Manganese, Total	103		-		85-115	-		
Nickel, Total	101		-		85-115	-		
Selenium, Total	102		-		85-115	-		
Silver, Total	107		-		85-115	-		
Sodium, Total	104		-		85-115	-		
Zinc, Total	98		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG2134134-2								
Mercury, Total	104		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134129-3 QC Sample: L2567211-01 Client ID: MS Sample												
Aluminum, Total	0.537	2	2.62	104		-	-		75-125	-		
Antimony, Total	ND	0.5	0.555	111		-	-		75-125	-		
Arsenic, Total	0.004J	0.12	0.143	119		-	-		75-125	-		
Barium, Total	0.004J	2	1.99	100		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0510	102		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0560	106		-	-		75-125	-		
Chromium, Total	ND	0.2	0.202	101		-	-		75-125	-		
Copper, Total	0.009J	0.25	0.276	110		-	-		75-125	-		
Iron, Total	0.244	1	1.25	101		-	-		75-125	-		
Lead, Total	ND	0.53	0.552	104		-	-		75-125	-		
Magnesium, Total	6.38	10	15.9	95		-	-		75-125	-		
Manganese, Total	0.038	0.5	0.539	100		-	-		75-125	-		
Nickel, Total	0.156	0.5	0.675	104		-	-		75-125	-		
Selenium, Total	ND	0.12	0.140	117		-	-		75-125	-		
Silver, Total	ND	0.05	0.0542	108		-	-		75-125	-		
Sodium, Total	251	10	259	80		-	-		75-125	-		
Zinc, Total	0.025	0.5	0.560	107		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134129-7 QC Sample: L2567312-01 Client ID: MS Sample												
Aluminum, Total	0.870	2	3.04	108		-	-		75-125	-		
Antimony, Total	ND	0.5	0.509	102		-	-		75-125	-		
Arsenic, Total	ND	0.12	0.127	106		-	-		75-125	-		
Barium, Total	0.022	2	2.12	105		-	-		75-125	-		
Beryllium, Total	ND	0.05	0.0530	106		-	-		75-125	-		
Cadmium, Total	ND	0.053	0.0554	104		-	-		75-125	-		
Chromium, Total	0.012	0.2	0.219	104		-	-		75-125	-		
Copper, Total	0.0106	0.25	0.272	104		-	-		75-125	-		
Iron, Total	0.910	1	1.93	102		-	-		75-125	-		
Lead, Total	0.010J	0.53	0.570	108		-	-		75-125	-		
Magnesium, Total	2.09	10	12.3	102		-	-		75-125	-		
Manganese, Total	0.096	0.5	0.616	104		-	-		75-125	-		
Nickel, Total	0.018J	0.5	0.540	108		-	-		75-125	-		
Selenium, Total	ND	0.12	0.128	107		-	-		75-125	-		
Silver, Total	ND	0.05	0.0526	105		-	-		75-125	-		
Sodium, Total	4.26	10	14.9	106		-	-		75-125	-		
Zinc, Total	0.0747	0.5	0.597	104		-	-		75-125	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134134-3 QC Sample: L2567180-01 Client ID: MS Sample												
Mercury, Total	0.00010J	0.005	0.00491	98		-	-		70-130	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134129-4 QC Sample: L2567211-01 Client ID: DUP Sample						
Magnesium, Total	6.38	6.39	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134129-8 QC Sample: L2567312-01 Client ID: DUP Sample						
Aluminum, Total	0.870	0.895	mg/l	3		20
Copper, Total	0.0106	0.0107	mg/l	1		20
Zinc, Total	0.0747	0.0801	mg/l	7		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG2134134-4 QC Sample: L2567180-01 Client ID: DUP Sample						
Mercury, Total	0.00010J	0.00013J	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-01
Client ID: GRP
Sample Location: GRP PUMP HOUSE

Date Collected: 10/23/25 09:45
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	11/03/25 11:20	11/03/25 15:34	121,4500CN-CE	JER
Nitrogen, Total Kjeldahl	2.66		mg/l	0.300	0.066	1	10/29/25 09:00	10/29/25 19:55	4,351.1	AT

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

SAMPLE RESULTS

Lab ID: L2567176-02
Client ID: GRP
Sample Location: GRP PUMP HOUSE

Date Collected: 10/23/25 09:40
Date Received: 10/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	83.9		mg CaCO3/L	2.00	NA	1	-	11/01/25 03:46	121,2320B	MRM
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	11/01/25 03:46	121,2320B	MRM
Solids, Total Dissolved	700		mg/l	13	4.0	1.3	-	10/30/25 03:27	121,2540C	DEW
Chloride	240		mg/l	20	8.9	10	-	10/29/25 18:13	121,4500CL-E	JER
Nitrogen, Nitrite	ND		mg/l	0.050	0.014	1	-	10/25/25 03:21	44,353.2	KAF
Nitrogen, Nitrate	0.11		mg/l	0.10	0.023	1	-	10/25/25 03:21	44,353.2	KAF
Sulfate	130		mg/l	50	6.8	5	11/04/25 15:00	11/04/25 15:00	121,4500SO4-E	MRW

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2132560-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.014	1	-	10/25/25 03:03	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2132562-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/25/25 03:05	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2134268-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	10/29/25 09:00	10/29/25 19:52	4,351.1	AT
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2134394-1										
Chloride	ND		mg/l	2.0	0.89	1	-	10/29/25 14:46	121,4500CL-E	JER
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2134694-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	10/30/25 03:27	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2135733-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	11/01/25 03:46	121,2320B	MRM
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2135736-1										
Alkalinity, Bicarbonate	ND		mg CaCO3/L	2.00	NA	1	-	11/01/25 03:46	121,2320B	MRM
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG2136257-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/03/25 11:20	11/03/25 15:26	121,4500CN-CE	JER
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2136790-1										
Sulfate	1.9	J	mg/l	10	1.4	1	11/04/25 15:00	11/04/25 15:00	121,4500SO4-E	MRW

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2132560-2								
Nitrogen, Nitrite	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2132562-2								
Nitrogen, Nitrate	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2134268-2								
Nitrogen, Total Kjeldahl	97		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2134394-2								
Chloride	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2134694-2								
Solids, Total Dissolved	97		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2135733-2								
Alkalinity, Total	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG2136257-2								
Cyanide, Total	95		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2136790-2								
Sulfate	95		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132560-4 QC Sample: L2567641-01 Client ID: MS Sample												
Nitrogen, Nitrite	0.015J	4	4.4	110		-	-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132562-4 QC Sample: L2567641-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.90	4	4.9	100		-	-		83-113	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132562-6 QC Sample: L2567554-03 Client ID: MS Sample												
Nitrogen, Nitrate	0.030J	4	4.1	102		-	-		83-113	-		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134268-4 QC Sample: L2566319-22 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	1.05	8	8.70	96		-	-		77-111	-		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134268-6 QC Sample: L2566322-13 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.431	8	7.91	93		-	-		77-111	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2134394-4 QC Sample: L2567429-01 Client ID: MS Sample												
Chloride	38.	20	58	100		-	-		58-140	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2135733-4 QC Sample: L2567176-02 Client ID: GRP												
Alkalinity, Total	83.9	100	192	108		-	-		86-116	-		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2136257-3 QC Sample: L2567129-01 Client ID: MS Sample												
Cyanide, Total	0.223	0.2	0.410	94		-	-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2136790-4 QC Sample: L2567383-04 Client ID: MS Sample												
Sulfate	28.	40	79	128		-	-		55-147	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132560-3 QC Sample: L2567641-01 Client ID: DUP Sample						
Nitrogen, Nitrite	0.015J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132562-3 QC Sample: L2567641-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.90	0.89	mg/l	1		6
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2132562-5 QC Sample: L2567554-03 Client ID: DUP Sample						
Nitrogen, Nitrate	0.030J	0.040J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134268-3 QC Sample: L2566319-22 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	1.05	1.78	mg/l	**52**	Q	24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2134268-5 QC Sample: L2566322-13 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.431	1.11	mg/l	**88**	Q	24
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2134394-3 QC Sample: L2567429-01 Client ID: DUP Sample						
Chloride	38.	37	mg/l	3		7
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2134694-3 QC Sample: L2568427-02 Client ID: DUP Sample						
Solids, Total Dissolved	2100	2000	mg/l	5		10
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2135733-3 QC Sample: L2567176-02 Client ID: GRP						
Alkalinity, Total	83.9	84.6	mg CaCO3/L	1		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2135736-3 QC Sample: L2567176-02 Client ID: GRP						
Alkalinity, Bicarbonate	ND	ND	mg CaCO3/L	NC		9
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG2136257-4 QC Sample: L2567129-01 Client ID: DUP Sample						
Cyanide, Total	0.223	0.219	mg/l	2		30
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2136790-3 QC Sample: L2567383-04 Client ID: DUP Sample						
Sulfate	28.	29	mg/l	4		14

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2567176-01A	Vial Na2S2O3 preserved	NA	NA			Y	Absent		624.1(3)
L2567176-01B	Vial Na2S2O3 preserved	NA	NA			Y	Absent		624.1(3)
L2567176-01C	Vial Na2S2O3 preserved	NA	NA			Y	Absent		624.1(3)
L2567176-01D	Plastic 250ml NaOH preserved	NA	>12	>12		Y	Absent		TCN-4500(14)
L2567176-01E	Plastic 250ml H2SO4 preserved	NA	<2	<2		Y	Absent		TKN-351(28)
L2567176-02A	Plastic 250ml Zn Acetate/NaOH preserved	NA	>9	>9		Y	Absent		SUB-SULFIDE(7)
L2567176-02B	Plastic 250ml Zn Acetate/NaOH preserved	NA	>9	>9		Y	Absent		SUB-SULFIDE(7)
L2567176-02C	Plastic 250ml unpreserved/No Headspace	NA	NA			Y	Absent		ALK-T-2320(14),ALK-HCO3-2320(14)
L2567176-02D	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		NI-UI(180),BA-UI(180),SB-UI(180),AG-UI(180),ZN-UI(180),SE-UI(180),FE-UI(180),MG-UI(180),HG-U(28),CD-UI(180),AL-UI(180),MN-UI(180),CR-UI(180),NA-UI(180),BE-UI(180),AS-UI(180),PB-UI(180),CU-UI(180)
L2567176-02E	Plastic 500ml unpreserved	NA	NA			Y	Absent		SO4-4500(28),CL-4500(28),NO2-353(2),NO3-353(2),TDS-2540(7)
L2567176-02F	Amber 1L Na2S2O3	NA	NA			Y	Absent		625.1(7)
L2567176-02G	Amber 1L Na2S2O3	NA	NA			Y	Absent		625.1(7)
L2567176-03A	Vial Na2S2O3 preserved	NA	NA			Y	Absent		624.1(3)
L2567176-03B	Vial Na2S2O3 preserved	NA	NA			Y	Absent		624.1(3)

*Values in parentheses indicate holding time in days

Project Name:	GRP	**Lab Number:**	L2567176
Project Number:	GRP	**Report Date:**	03/03/26

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GRP	**Lab Number:**	L2567176
Project Number:	GRP	**Report Date:**	03/03/26

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers

Project Name:	GRP	**Lab Number:**	L2567176
Project Number:	GRP	**Report Date:**	03/03/26

Data Qualifiers

estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: GRP
Project Number: GRP

Lab Number: L2567176
Report Date: 03/03/26

REFERENCES

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

128 Method 624.1: Purgeables by GC/MS, EPA 821-R-16-008, December 2016.

129 Method 625.1: Base/Neutrals and Acids by GC/MS, EPA 821-R-16-007, December 2016.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v02 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

PAS-MAN1 Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028
EPA 524.2: 1,3,5-Trichlorobenzene, m/p-Xylene, o-xylene.
EPA 625.1: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodiphenylamine.
EPA 8081B NPW and SCM: Alachlor, Endrin Ketone, Hexachlorobenzene.
EPA 8260D NPW: Tetrahydrofuran, 1,3,5-Trichlorobenzene; **SCM:** TAME, TBEE, Diethyl ether, DIPE, Tetrahydrofuran. 1,3,5-Trichlorobenzene, Freon-113.
EPA 8270E: NPW: Carbazole, 1-Methylnaphthalene, Pentachloronitrobenzene; **SCM:** Carbazole, 1-Methylnaphthalene.
EPA TO-13: Air: Benzo(e)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Perylene.
EPA TO-4A Pesticide Air: delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Hexachlorobenzene, Methoxychlor.
SM4500: NPW: Amenable Cyanide; **SCM:** Total Phosphorus, TKN, NH3, NECi: NO2, NO3, ASTMD516.

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

ENV-FORM-WES2-0065 v02 Certificate/Approval Program Summary

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028

Drinking Water

EPA 300.0: NO3, NO2, Fl, Cl, SO4. **NECI Reductase**: NO3, NO2.
SM4500F-C, SM4500Cl-B, ASTM D516, SM4500CN-C,E, EPA 180.1, SM2320B, SM 2540C, SM4500H-B, SM4500SO4-E.
EPA 537.1; EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9223-P/A: TC/EC; SM9223B-Colilert-enumeration: TC/EC; HPC-Simplate.

Non-Potable Water

SM4500H-B, SM2510B, SM2540C, SM2320B, SM4500Cl-B, ASTMD516, SM4500NH3-B, C, EPA 350.1, NECi: NO3, **SM4500NH3-B, C: TKN, SM4500P-E: Ortho Phosphate, SM4500P-B, E: Total Phosphorus, EPA 410.4, SM5210B, SM5310C, SM4500CN-C, E, SM2540D, SM4500Cl-G, SM4500SO4-E, EPA 1664, EPA 420.1, EPA 300.0:** Cl, SO4, NO3.
EPA 624.1: Volatile Halocarbons, Volatile Aromatics.
EPA 608.3: Chlordane, Toxaphene, Aldrin, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs.
EPA 625.1: SVOC-Acid Extractables and Base/Neutrals
Microbiology: SM9223B-Colilert: E. coli (Ambient and Wastewater), **SM9223B-Colilert-18:** Fecal Coliform (Wastewater).

Certification IDs:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

PAS-MAN1 Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

PAS-ELON East Longmeadow Facility – 39 Spruce St. East Longmeadow, MA 01028
CT PH-0821, ME MA00100, MI 9100, NC (DENR) 652, NC (DW) 25703, MA M-MA100, NH (Secondary) 2516, NH (Primary) 2557, NJ MA007, NY 10899, PA 68-05812, RI LAO00373, VA 460217, VT-255716, WV DEP 419, WV-DW 9979C, LA 05130, LA-DW LA042, MD-DW 373, OH 87781.

For a complete listing of analytes and methods, please contact your Project Manager.

NEW YORK CHAIN OF CUSTODY

Pace

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Woodcliff Lake, NJ 07677: 123 Tice Blvd, Suite 101
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd In Lab: 10/24/25

L2567176
TONAWANDA – W

Client Information

Client: City of North Tonawanda DWP
Address: 830 River Rd.
Phone: 716-984-2139
Fax:
Email: MWG208@live.com

Project Information

Project Name: GRP
Project Location: GRP Pump House
Project #
(Use Project name as Project #) [X]
Project Manager: Mike Gibbons
PACE Quote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information

[ ] Same as Client Info
PO #

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Pace [X]

Other project specific requirements/comments:

624.1 ⇒ Styrene, Tot. Xylenes, 2-Butanone, Vinyl Chloride, Acetone, PPL 2-methylphenol

Please specify Metals or TAL.

ANALYSIS

PACE Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	351.2 - TKN	SM 4500 - TCN	624.1 - VOAs PPL	EPA 625.1	SM 4500 - Sulfide	Sum Bottle: Zero TDS, SO_4, Cl	EPA 353.2 - NO_3 NO_2	ALK-T 2320 - ALK-HCO3	Sample Filtration / Preservation / (Please Specify below)	Total Bottles
67176 01	GRP	10/23/25	9:45am	Water	MWG	X									
		↓	↓	↓	↓		X								
								X							
02		10/22 - 10/23	9:40 - 9:40	Water	MWG				X		Sample	Bottle		625.1 PPL + Phenol	
		↓	↓	↓	↓					X	X	X			
											X	X			
													X		
03	Trip Blank	10/14						X	X						

Sample Specific Comments

Container Type	P	P	G	A	P	P	P	P
Preservative	D	E	H	H	K/E	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/23/25 11:51	Jocelyn Foley (PACE)	10/23/25 11:51
Jocelyn Foley (PACE)	10/23/25 11:51	Buffalo Sound Center	10/23/25 11:51
Russell L Bixby	10/23/25 15:45		10/23 2300
	10/24 0300	[signature]	10/24/25 03:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY PACE'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 29-Jan-2025)

Sample Delivery Group Summary

Pace Job Number : L2567176

Account Name : North Tonawanda WWTP
Project Number : GRP
Project Name : GRP

Received : 23-OCT-2025
Reviewer : Maile Kolton

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.3	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **YES**
L2567176-02D (HOLD-METAL-TOTAL) was received in extra container.

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **YES**

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NO**

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

October 29, 2025

Reports
Pace - West Borough
8 Walkup Drive
Westborough, MA 01581

RE: Project: L2567176
Pace Project No.: 70387705

Dear Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Melville

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

Sincerely,



Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2567176
Pace Project No.: 70387705

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2567176
Pace Project No.: 70387705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70387705001	**GRP**	Water	10/23/25 09:40	10/25/25 08:30

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2567176
Pace Project No.: 70387705

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70387705001	**GRP**	SM 4500-S2 F-2011	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2567176
Pace Project No.: 70387705

Sample: GRP **Lab ID: 70387705001** Collected: 10/23/25 09:40 Received: 10/25/25 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville								
Sulfide	**1.9J**	mg/L	2.0	0.20	1		10/29/25 15:47		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: L2567176
Pace Project No.: 70387705

QC Batch: 425776
QC Batch Method: SM 4500-S2 F-2011
Analysis Method: SM 4500-S2 F-2011
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70387705001

METHOD BLANK: 2272232 Matrix: Water
Associated Lab Samples: 70387705001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	2.0	0.20	10/29/25 15:39	

LABORATORY CONTROL SAMPLE & LCSD: 2272233 2272234

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

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

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Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2567176
Pace Project No.: 70387705

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2567176
Pace Project No.: 70387705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70387705001	**GRP**	SM 4500-S2 F-2011	425776		

REPORT OF LABORATORY ANALYSIS

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WO# : 70387705

70387705

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2567176

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.coupahost.com Phone: 716.427.5225 Email: Brenda.Pirinelli@pacelabs.com	Project Location: NY Project Manager: Brenda Pirinelli **Turnaround & Deliverables Information** Due Date: 11/06/25 Deliverables:	State/Federal Program: Regulatory Criteria: Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2567176 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2567176-02	GRP	10-23-25 09:40	WATER	Sulfide			2

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		10/21/25 18:10		10/21 1810
		10.21		
	Oman	10-25-25 8:30	ICPM	10/25/25 8:36
Form No: AL_subcoc				

Serial_No:03032613:09

DC#_Title: ENV-FRM-MELV-0024 v07_SCUR
Effective Date: 4/12/2024

WO#: 70387705
PM: BDR **Due Date: 11/03/25**
CLIENT: ALPHA

Client Name: Alpha **Project**

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐Yes ☐No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other **Type of Ice:** Wet Blue None

Thermometer Used: TH211_2 **Correction Factor:** +0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 0.2 **Cooler Temperature Corrected(°C):** 0.3 **Date/Time 5035A kits placed in freezer** _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (~~N/A~~, water sample)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: LR 10/25/25

				COMMENTS:
Chain of Custody Present:	~~Yes~~	☐No		1.
Chain of Custody Filled Out:	~~Yes~~	☐No		2.
Chain of Custody Relinquished:	~~Yes~~	☐No		3.
Sampler Name & Signature on COC:	~~Yes~~	☐No	☐N/A	4.
Samples Arrived within Hold Time:	~~Yes~~	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	~~No~~		6.
Rush Turn Around Time Requested:	☐Yes	~~No~~		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	~~Yes~~	☐No		8.
Correct Containers Used:	~~Yes~~	☐No		9.
-Pace Containers Used:	~~Yes~~	☐No		
Containers Intact:	~~Yes~~	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	~~No~~	☐N/A	11. Note: if sediment is visible in the dissolved container
Sample Labels match COC: -Includes date/time/ID/Analysis	~~Yes~~	☐No		12.
Matrix:	SL	~~WT~~	OIL OTHER	

Date and Initials of person checking preservation: LR 10/25/25

All containers needing preservation have been checked.	☐Yes	☐No	~~N/A~~	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	~~N/A~~	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	~~N/A~~	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulf	☐Yes	☐No	~~N/A~~	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	~~N/A~~	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	~~N/A~~	16.
Trip Blank Present:	☐Yes	☐No	~~N/A~~	17.
Trip Blank Custody Seals Present	☐Yes	☐No	~~N/A~~	

Client Notification/ Resolution: **Field Data Required?** Y / N
Person Contacted: **Date/Time:**
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Julie Lundie
GHD Services Inc
2055 Niagara Falls Blvd
Suite 1
Niagara Falls, New York 14304

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JOB DESCRIPTION

007987, Gratwick Riverside Park

JOB NUMBER

480-238181-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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5/12/2026 2:53:24 PM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

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Definitions/Glossary

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
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.
☼	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

Job Narrative
480-238181-1

Receipt
The samples were received on 5/1/2026 3:55 PM. 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 2.9°C and 3.7°C.

GC/MS VOA
Method EPA 8260D: The continuing calibration verification (CCV) associated with batch 480-774747 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:WG-007987-043026-GH-001 (480-238181-1), WG-007987-043026-GH-002 (480-238181-2), WG-007987-043026-GH-003 (480-238181-3), WG-007987-043026-GH-003 (480-238181-3[MS]), WG-007987-043026-GH-003 (480-238181-3[MSD]), WG-007987-043026-GH-005 (480-238181-5), WG-007987-050126-GH-007 (480-238181-7), WG-007987-050126-GH-008 (480-238181-8), WG-007987-050126-GH-009 (480-238181-9), WG-007987-050126-GH-011 (480-238181-11), WG-007987-050126-GH-012 (480-238181-12), WG-007987-050126-GH-013 (480-238181-13) and TB (480-238181-14).

Method EPA 8260D: The laboratory control sample (LCS) for analytical batch 480-774747 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated samples are:WG-007987-043026-GH-001 (480-238181-1), WG-007987-043026-GH-002 (480-238181-2), WG-007987-043026-GH-003 (480-238181-3), WG-007987-043026-GH-003 (480-238181-3[MS]), WG-007987-043026-GH-003 (480-238181-3[MSD]), WG-007987-043026-GH-005 (480-238181-5), WG-007987-050126-GH-007 (480-238181-7), WG-007987-050126-GH-008 (480-238181-8), WG-007987-050126-GH-009 (480-238181-9), WG-007987-050126-GH-011 (480-238181-11), WG-007987-050126-GH-012 (480-238181-12), WG-007987-050126-GH-013 (480-238181-13) and TB (480-238181-14).

Method EPA 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: WG-007987-043026-GH-002 (480-238181-2) and WG-007987-050126-GH-012 (480-238181-12). Elevated reporting limits (RLs) are provided.

Method EPA 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-774747 were outside control limits for one or more analytes. See QC Sample Results for detail..

Method EPA 8260D: The continuing calibration verification (CCV) associated with batch 480-774800 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method EPA 8260D: The continuing calibration verification (CCV) analyzed in batch 480-774800 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method EPA 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: WG-007987-043026-GH-004 (480-238181-4). 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/MS Semi VOA
Method 8270E: The following sample formed emulsions during the extraction procedure: WG-007987-050126-GH-011 (480-238181-11). The emulsions were broken up using centrifugation.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: WG-007987-043026-GH-001 (480-238181-1), WG-007987-043026-GH-003 (480-238181-3), WG-007987-043026-GH-003 (480-238181-3[MS]), WG-007987-043026-GH-003 (480-238181-3[MSD]), WG-007987-043026-GH-004 (480-238181-4), WG-007987-043026-GH-005 (480-238181-5), WG-007987-043026-GH-006 (480-238181-6) and WG-007987-050126-GH-012 (480-238181-12). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) associated with batch 480-774743 recovered above the upper control limit for Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:WG-007987-043026-GH-001 (480-238181-1), WG-007987-043026-GH-002

Job ID: 480-238181-1 (Continued) Eurofins Buffalo

(480-238181-2), WG-007987-043026-GH-003 (480-238181-3), WG-007987-043026-GH-004 (480-238181-4), WG-007987-043026-GH-005 (480-238181-5), WG-007987-043026-GH-006 (480-238181-6), WG-007987-050126-GH-007 (480-238181-7), WG-007987-050126-GH-008 (480-238181-8), WG-007987-050126-GH-009 (480-238181-9), WG-007987-050126-GH-010 (480-238181-10), WG-007987-050126-GH-011 (480-238181-11), WG-007987-050126-GH-012 (480-238181-12) and WG-007987-050126-GH-013 (480-238181-13).

Method 8270E: The following sample was diluted to bring the concentration of target analytes within the calibration range: WG-007987-043026-GH-002 (480-238181-2). 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.

Detection Summary

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Client Sample ID: WG-007987-043026-GH-001 — Lab Sample ID: 480-238181-1

No Detections.

Client Sample ID: WG-007987-043026-GH-002 — Lab Sample ID: 480-238181-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	8.8		4.0	3.0	ug/L	4		EPA 8260D	Total/NA
1,2-Dichlorobenzene	1.5	J	9.9	0.17	ug/L	1		8270E	Total/NA
1,4-Dichlorobenzene	4.4	J	9.9	0.17	ug/L	1		8270E	Total/NA
2-Methylphenol	7.3	J	9.9	0.10	ug/L	1		8270E	Total/NA
Naphthalene	0.35	J	9.9	0.16	ug/L	1		8270E	Total/NA
Phenol	16		9.9	0.092	ug/L	1		8270E	Total/NA
2,4-Dimethylphenol - DL	31	J	99	1.4	ug/L	10		8270E	Total/NA
4-Methylphenol - DL	100		99	1.3	ug/L	10		8270E	Total/NA

Client Sample ID: WG-007987-043026-GH-003 — Lab Sample ID: 480-238181-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.55	J	0.70	0.41	ug/L	1		EPA 8260D	Total/NA
Tetrachloroethene	0.61	J	1.0	0.36	ug/L	1		EPA 8260D	Total/NA
Toluene	2.3	F1	1.0	0.51	ug/L	1		EPA 8260D	Total/NA
Trichloroethene	2.5		1.0	0.46	ug/L	1		EPA 8260D	Total/NA
Xylenes, Total	0.99	J	2.0	0.66	ug/L	1		EPA 8260D	Total/NA
2,4-Dimethylphenol	2.0	J	99	1.4	ug/L	10		8270E	Total/NA
2-Methylphenol	4.2	J	99	1.0	ug/L	10		8270E	Total/NA
4-Methylphenol	12	J	99	1.3	ug/L	10		8270E	Total/NA

Client Sample ID: WG-007987-043026-GH-004 — Lab Sample ID: 480-238181-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30		20	12	ug/L	4		EPA 8260D	Total/NA
Benzene	3.3		2.8	1.6	ug/L	4		EPA 8260D	Total/NA
Chlorobenzene	6.8		4.0	3.0	ug/L	4		EPA 8260D	Total/NA
Ethylbenzene	3.2	J	4.0	3.0	ug/L	4		EPA 8260D	Total/NA
Trichloroethene	2.9	J	4.0	1.8	ug/L	4		EPA 8260D	Total/NA
1,4-Dichlorobenzene	65	J	98	1.7	ug/L	10		8270E	Total/NA
2,4-Dimethylphenol	20	J	98	1.4	ug/L	10		8270E	Total/NA
2-Methylphenol	21	J	98	0.99	ug/L	10		8270E	Total/NA
4-Methylphenol	11	J	98	1.3	ug/L	10		8270E	Total/NA
Phenol	1.9	J	98	0.91	ug/L	10		8270E	Total/NA

Client Sample ID: WG-007987-043026-GH-005 — Lab Sample ID: 480-238181-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	5.0	3.0	ug/L	1		EPA 8260D	Total/NA
Trichloroethene	0.60	J	1.0	0.46	ug/L	1		EPA 8260D	Total/NA
2,4-Dimethylphenol	6.4	J	99	1.4	ug/L	10		8270E	Total/NA
2-Methylphenol	18	J	99	1.0	ug/L	10		8270E	Total/NA
4-Methylphenol	12	J	99	1.3	ug/L	10		8270E	Total/NA
Phenol	26	J	99	0.92	ug/L	10		8270E	Total/NA

Client Sample ID: WG-007987-043026-GH-006 — Lab Sample ID: 480-238181-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.5		1.0	0.51	ug/L	1		EPA 8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.90	ug/L	1		EPA 8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: WG-007987-043026-GH-006 (Continued) — Lab Sample ID: 480-238181-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.4		1.0	0.46	ug/L	1		EPA 8260D	Total/NA
Vinyl chloride	2.3		1.0	0.90	ug/L	1		EPA 8260D	Total/NA
Xylenes, Total	1.0	J	2.0	0.66	ug/L	1		EPA 8260D	Total/NA

Client Sample ID: WG-007987-050126-GH-007 — Lab Sample ID: 480-238181-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	5.0	3.0	ug/L	1		EPA 8260D	Total/NA

Client Sample ID: WG-007987-050126-GH-008 — Lab Sample ID: 480-238181-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7		5.0	3.0	ug/L	1		EPA 8260D	Total/NA

Client Sample ID: WG-007987-050126-GH-009 — Lab Sample ID: 480-238181-9

No Detections.

Client Sample ID: WG-007987-050126-GH-010 — Lab Sample ID: 480-238181-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.0		1.0	0.36	ug/L	1		EPA 8260D	Total/NA
Toluene	0.83	J	1.0	0.51	ug/L	1		EPA 8260D	Total/NA
trans-1,2-Dichloroethene	13		1.0	0.90	ug/L	1		EPA 8260D	Total/NA
Trichloroethene	8.5		1.0	0.46	ug/L	1		EPA 8260D	Total/NA
Vinyl chloride	1.8		1.0	0.90	ug/L	1		EPA 8260D	Total/NA
2,4-Dimethylphenol	0.20	J	9.8	0.14	ug/L	1		8270E	Total/NA
2-Methylphenol	0.78	J	9.8	0.099	ug/L	1		8270E	Total/NA
4-Methylphenol	0.52	J	9.8	0.13	ug/L	1		8270E	Total/NA
Naphthalene	0.61	J	9.8	0.16	ug/L	1		8270E	Total/NA
Phenol	0.15	J	9.8	0.091	ug/L	1		8270E	Total/NA

Client Sample ID: WG-007987-050126-GH-011 — Lab Sample ID: 480-238181-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	29		5.0	3.0	ug/L	1		EPA 8260D	Total/NA
Benzene	0.72		0.70	0.41	ug/L	1		EPA 8260D	Total/NA
2-Methylphenol	0.30	J I	9.8	0.099	ug/L	1		8270E	Total/NA
Naphthalene	0.32	J	9.8	0.15	ug/L	1		8270E	Total/NA

Client Sample ID: WG-007987-050126-GH-012 — Lab Sample ID: 480-238181-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	3.2	J	99	1.7	ug/L	10		8270E	Total/NA
4-Methylphenol	1.5	J	99	1.3	ug/L	10		8270E	Total/NA

Client Sample ID: WG-007987-050126-GH-013 — Lab Sample ID: 480-238181-13

No Detections.

Client Sample ID: TB — Lab Sample ID: 480-238181-14

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: WG-007987-043026-GH-001
Lab Sample ID: 480-238181-1

Date Collected: 04/30/26 11:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 15:36	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 15:36	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 15:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 15:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 15:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 15:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 15:36	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 15:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 15:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 15:36	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 15:36	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 15:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/06/26 15:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*05/06/26 15:36*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/06/26 15:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		98	1.7	ug/L		05/05/26 09:34	05/06/26 16:51	10
1,4-Dichlorobenzene	ND		98	1.7	ug/L		05/05/26 09:34	05/06/26 16:51	10
2,4-Dimethylphenol	ND		98	1.4	ug/L		05/05/26 09:34	05/06/26 16:51	10
2-Methylphenol	ND		98	0.99	ug/L		05/05/26 09:34	05/06/26 16:51	10
4-Methylphenol	ND		98	1.3	ug/L		05/05/26 09:34	05/06/26 16:51	10
Di-n-octyl phthalate	ND		98	3.0	ug/L		05/05/26 09:34	05/06/26 16:51	10
Naphthalene	ND		98	1.6	ug/L		05/05/26 09:34	05/06/26 16:51	10
Phenol	ND		98	0.92	ug/L		05/05/26 09:34	05/06/26 16:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*124*		*60 - 143*	*05/05/26 09:34*	*05/06/26 16:51*	*10*
2-Fluorobiphenyl	*112*		*53 - 139*	*05/05/26 09:34*	*05/06/26 16:51*	*10*
p-Terphenyl-d14	*127*		*52 - 154*	*05/05/26 09:34*	*05/06/26 16:51*	*10*
Phenol-d5	*53*		*33 - 120*	*05/05/26 09:34*	*05/06/26 16:51*	*10*
2-Fluorophenol	*63*		*26 - 120*	*05/05/26 09:34*	*05/06/26 16:51*	*10*
2,4,6-Tribromophenol	*93*		*27 - 138*	*05/05/26 09:34*	*05/06/26 16:51*	*10*

Client Sample ID: WG-007987-043026-GH-002
Lab Sample ID: 480-238181-2

Date Collected: 04/30/26 11:40
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		20	5.3	ug/L			05/06/26 16:00	4
Acetone	ND		20	12	ug/L			05/06/26 16:00	4
Benzene	ND		2.8	1.6	ug/L			05/06/26 16:00	4
Chlorobenzene	**8.8**		4.0	3.0	ug/L			05/06/26 16:00	4
Ethylbenzene	ND		4.0	3.0	ug/L			05/06/26 16:00	4
Methylene Chloride	ND		4.0	1.8	ug/L			05/06/26 16:00	4
Tetrachloroethene	ND		4.0	1.4	ug/L			05/06/26 16:00	4

Client Sample ID: WG-007987-043026-GH-002
Lab Sample ID: 480-238181-2
Date Collected: 04/30/26 11:40
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.0	2.0	ug/L			05/06/26 16:00	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			05/06/26 16:00	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			05/06/26 16:00	4
Trichloroethene	ND		4.0	1.8	ug/L			05/06/26 16:00	4
Vinyl chloride	ND	*+	4.0	3.6	ug/L			05/06/26 16:00	4
Xylenes, Total	ND		8.0	2.6	ug/L			05/06/26 16:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/06/26 16:00*	*4*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*05/06/26 16:00*	*4*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/06/26 16:00*	*4*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**1.5**	**J**	9.9	0.17	ug/L		05/05/26 09:34	05/06/26 17:22	1
1,4-Dichlorobenzene	**4.4**	**J**	9.9	0.17	ug/L		05/05/26 09:34	05/06/26 17:22	1
2-Methylphenol	**7.3**	**J**	9.9	0.10	ug/L		05/05/26 09:34	05/06/26 17:22	1
Di-n-octyl phthalate	ND		9.9	0.30	ug/L		05/05/26 09:34	05/06/26 17:22	1
Naphthalene	**0.35**	**J**	9.9	0.16	ug/L		05/05/26 09:34	05/06/26 17:22	1
Phenol	**16**		9.9	0.092	ug/L		05/05/26 09:34	05/06/26 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*136*		*60 - 143*	*05/05/26 09:34*	*05/06/26 17:22*	*1*
2-Fluorobiphenyl	*100*		*53 - 139*	*05/05/26 09:34*	*05/06/26 17:22*	*1*
p-Terphenyl-d14	*114*		*52 - 154*	*05/05/26 09:34*	*05/06/26 17:22*	*1*
Phenol-d5	*54*		*33 - 120*	*05/05/26 09:34*	*05/06/26 17:22*	*1*
2-Fluorophenol	*79*		*26 - 120*	*05/05/26 09:34*	*05/06/26 17:22*	*1*
2,4,6-Tribromophenol	*126*		*27 - 138*	*05/05/26 09:34*	*05/06/26 17:22*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	**31**	**J**	99	1.4	ug/L		05/05/26 09:34	05/07/26 08:54	10
4-Methylphenol	**100**		99	1.3	ug/L		05/05/26 09:34	05/07/26 08:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*139*		*60 - 143*	*05/05/26 09:34*	*05/07/26 08:54*	*10*
2-Fluorobiphenyl	*115*		*53 - 139*	*05/05/26 09:34*	*05/07/26 08:54*	*10*
p-Terphenyl-d14	*113*		*52 - 154*	*05/05/26 09:34*	*05/07/26 08:54*	*10*
Phenol-d5	*58*		*33 - 120*	*05/05/26 09:34*	*05/07/26 08:54*	*10*
2-Fluorophenol	*87*		*26 - 120*	*05/05/26 09:34*	*05/07/26 08:54*	*10*
2,4,6-Tribromophenol	*109*		*27 - 138*	*05/05/26 09:34*	*05/07/26 08:54*	*10*

Client Sample ID: WG-007987-043026-GH-003
Lab Sample ID: 480-238181-3
Date Collected: 04/30/26 12:45
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 16:24	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 16:24	1
Benzene	**0.55**	**J**	0.70	0.41	ug/L			05/06/26 16:24	1

Client Sample ID: WG-007987-043026-GH-003
Lab Sample ID: 480-238181-3
Date Collected: 04/30/26 12:45
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 16:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 16:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 16:24	1
Tetrachloroethene	**0.61**	**J**	1.0	0.36	ug/L			05/06/26 16:24	1
Toluene	**2.3**	**F1**	1.0	0.51	ug/L			05/06/26 16:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 16:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 16:24	1
Trichloroethene	**2.5**		1.0	0.46	ug/L			05/06/26 16:24	1
Vinyl chloride	ND	*+ F1	1.0	0.90	ug/L			05/06/26 16:24	1
Xylenes, Total	**0.99**	**J**	2.0	0.66	ug/L			05/06/26 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/06/26 16:24*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*05/06/26 16:24*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/06/26 16:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 16:21	10
1,4-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 16:21	10
2,4-Dimethylphenol	**2.0**	**J**	99	1.4	ug/L		05/05/26 09:34	05/06/26 16:21	10
2-Methylphenol	**4.2**	**J**	99	1.0	ug/L		05/05/26 09:34	05/06/26 16:21	10
4-Methylphenol	**12**	**J**	99	1.3	ug/L		05/05/26 09:34	05/06/26 16:21	10
Di-n-octyl phthalate	ND		99	3.0	ug/L		05/05/26 09:34	05/06/26 16:21	10
Naphthalene	ND		99	1.6	ug/L		05/05/26 09:34	05/06/26 16:21	10
Phenol	ND		99	0.92	ug/L		05/05/26 09:34	05/06/26 16:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*119*		*60 - 143*	*05/05/26 09:34*	*05/06/26 16:21*	*10*
2-Fluorobiphenyl	*118*		*53 - 139*	*05/05/26 09:34*	*05/06/26 16:21*	*10*
p-Terphenyl-d14	*126*		*52 - 154*	*05/05/26 09:34*	*05/06/26 16:21*	*10*
Phenol-d5	*46*		*33 - 120*	*05/05/26 09:34*	*05/06/26 16:21*	*10*
2-Fluorophenol	*47*		*26 - 120*	*05/05/26 09:34*	*05/06/26 16:21*	*10*
2,4,6-Tribromophenol	*71*		*27 - 138*	*05/05/26 09:34*	*05/06/26 16:21*	*10*

Client Sample ID: WG-007987-043026-GH-004
Lab Sample ID: 480-238181-4
Date Collected: 04/30/26 13:45
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		20	5.3	ug/L			05/07/26 11:25	4
Acetone	**30**		20	12	ug/L			05/07/26 11:25	4
Benzene	**3.3**		2.8	1.6	ug/L			05/07/26 11:25	4
Chlorobenzene	**6.8**		4.0	3.0	ug/L			05/07/26 11:25	4
Ethylbenzene	**3.2**	**J**	4.0	3.0	ug/L			05/07/26 11:25	4
Methylene Chloride	ND		4.0	1.8	ug/L			05/07/26 11:25	4
Tetrachloroethene	ND		4.0	1.4	ug/L			05/07/26 11:25	4
Toluene	ND		4.0	2.0	ug/L			05/07/26 11:25	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			05/07/26 11:25	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			05/07/26 11:25	4

Client Sample ID: WG-007987-043026-GH-004
Lab Sample ID: 480-238181-4
Date Collected: 04/30/26 13:45
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**2.9**	**J**	4.0	1.8	ug/L			05/07/26 11:25	4
Vinyl chloride	ND		4.0	3.6	ug/L			05/07/26 11:25	4
Xylenes, Total	ND		8.0	2.6	ug/L			05/07/26 11:25	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*05/07/26 11:25*	*4*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/07/26 11:25*	*4*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/07/26 11:25*	*4*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		98	1.7	ug/L		05/05/26 09:34	05/06/26 17:52	10
1,4-Dichlorobenzene	**65**	**J**	98	1.7	ug/L		05/05/26 09:34	05/06/26 17:52	10
2,4-Dimethylphenol	**20**	**J**	98	1.4	ug/L		05/05/26 09:34	05/06/26 17:52	10
2-Methylphenol	**21**	**J**	98	0.99	ug/L		05/05/26 09:34	05/06/26 17:52	10
4-Methylphenol	**11**	**J**	98	1.3	ug/L		05/05/26 09:34	05/06/26 17:52	10
Di-n-octyl phthalate	ND		98	2.9	ug/L		05/05/26 09:34	05/06/26 17:52	10
Naphthalene	ND		98	1.6	ug/L		05/05/26 09:34	05/06/26 17:52	10
Phenol	**1.9**	**J**	98	0.91	ug/L		05/05/26 09:34	05/06/26 17:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*126*		*60 - 143*	*05/05/26 09:34*	*05/06/26 17:52*	*10*
2-Fluorobiphenyl	*111*		*53 - 139*	*05/05/26 09:34*	*05/06/26 17:52*	*10*
p-Terphenyl-d14	*116*		*52 - 154*	*05/05/26 09:34*	*05/06/26 17:52*	*10*
Phenol-d5	*47*		*33 - 120*	*05/05/26 09:34*	*05/06/26 17:52*	*10*
2-Fluorophenol	*79*		*26 - 120*	*05/05/26 09:34*	*05/06/26 17:52*	*10*
2,4,6-Tribromophenol	*99*	*I*	*27 - 138*	*05/05/26 09:34*	*05/06/26 17:52*	*10*

Client Sample ID: WG-007987-043026-GH-005
Lab Sample ID: 480-238181-5
Date Collected: 04/30/26 14:20
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 17:13	1
Acetone	**3.2**	**J**	5.0	3.0	ug/L			05/06/26 17:13	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 17:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 17:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 17:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 17:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 17:13	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 17:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 17:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 17:13	1
Trichloroethene	**0.60**	**J**	1.0	0.46	ug/L			05/06/26 17:13	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 17:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/06/26 17:13*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*05/06/26 17:13*	*1*

Client Sample ID: WG-007987-043026-GH-005
Lab Sample ID: 480-238181-5
Date Collected: 04/30/26 14:20
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/06/26 17:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 18:22	10
1,4-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 18:22	10
2,4-Dimethylphenol	**6.4**	**J**	99	1.4	ug/L		05/05/26 09:34	05/06/26 18:22	10
2-Methylphenol	**18**	**J**	99	1.0	ug/L		05/05/26 09:34	05/06/26 18:22	10
4-Methylphenol	**12**	**J**	99	1.3	ug/L		05/05/26 09:34	05/06/26 18:22	10
Di-n-octyl phthalate	ND		99	3.0	ug/L		05/05/26 09:34	05/06/26 18:22	10
Naphthalene	ND		99	1.6	ug/L		05/05/26 09:34	05/06/26 18:22	10
Phenol	**26**	**J**	99	0.92	ug/L		05/05/26 09:34	05/06/26 18:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*125*		*60 - 143*	*05/05/26 09:34*	*05/06/26 18:22*	*10*
2-Fluorobiphenyl	*120*		*53 - 139*	*05/05/26 09:34*	*05/06/26 18:22*	*10*
p-Terphenyl-d14	*127*		*52 - 154*	*05/05/26 09:34*	*05/06/26 18:22*	*10*
Phenol-d5	*55*		*33 - 120*	*05/05/26 09:34*	*05/06/26 18:22*	*10*
2-Fluorophenol	*85*		*26 - 120*	*05/05/26 09:34*	*05/06/26 18:22*	*10*
2,4,6-Tribromophenol	*121*		*27 - 138*	*05/05/26 09:34*	*05/06/26 18:22*	*10*

Client Sample ID: WG-007987-043026-GH-006
Lab Sample ID: 480-238181-6
Date Collected: 04/30/26 15:05
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/07/26 11:48	1
Acetone	ND		5.0	3.0	ug/L			05/07/26 11:48	1
Benzene	ND		0.70	0.41	ug/L			05/07/26 11:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/07/26 11:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/07/26 11:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/07/26 11:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/07/26 11:48	1
Toluene	**1.5**		1.0	0.51	ug/L			05/07/26 11:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/07/26 11:48	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.90	ug/L			05/07/26 11:48	1
Trichloroethene	**3.4**		1.0	0.46	ug/L			05/07/26 11:48	1
Vinyl chloride	**2.3**		1.0	0.90	ug/L			05/07/26 11:48	1
Xylenes, Total	**1.0**	**J**	2.0	0.66	ug/L			05/07/26 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*05/07/26 11:48*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/07/26 11:48*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/07/26 11:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 18:53	10
1,4-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 18:53	10

Client Sample ID: WG-007987-043026-GH-006
Lab Sample ID: 480-238181-6
Date Collected: 04/30/26 15:05
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		99	1.4	ug/L		05/05/26 09:34	05/06/26 18:53	10
2-Methylphenol	ND		99	1.0	ug/L		05/05/26 09:34	05/06/26 18:53	10
4-Methylphenol	ND		99	1.3	ug/L		05/05/26 09:34	05/06/26 18:53	10
Di-n-octyl phthalate	ND		99	3.0	ug/L		05/05/26 09:34	05/06/26 18:53	10
Naphthalene	ND		99	1.6	ug/L		05/05/26 09:34	05/06/26 18:53	10
Phenol	ND		99	0.92	ug/L		05/05/26 09:34	05/06/26 18:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*125*		*60 - 143*	*05/05/26 09:34*	*05/06/26 18:53*	*10*
2-Fluorobiphenyl	*125*		*53 - 139*	*05/05/26 09:34*	*05/06/26 18:53*	*10*
p-Terphenyl-d14	*117*		*52 - 154*	*05/05/26 09:34*	*05/06/26 18:53*	*10*
Phenol-d5	*53*		*33 - 120*	*05/05/26 09:34*	*05/06/26 18:53*	*10*
2-Fluorophenol	*84*		*26 - 120*	*05/05/26 09:34*	*05/06/26 18:53*	*10*
2,4,6-Tribromophenol	*77*		*27 - 138*	*05/05/26 09:34*	*05/06/26 18:53*	*10*

Client Sample ID: WG-007987-050126-GH-007
Lab Sample ID: 480-238181-7
Date Collected: 05/01/26 10:55
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 18:01	1
Acetone	**4.8**	**J**	5.0	3.0	ug/L			05/06/26 18:01	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 18:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 18:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 18:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 18:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 18:01	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 18:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 18:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 18:01	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 18:01	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 18:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/06/26 18:01*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*05/06/26 18:01*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/06/26 18:01*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 19:23	1
1,4-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 19:23	1
2,4-Dimethylphenol	ND		9.9	0.14	ug/L		05/05/26 09:34	05/06/26 19:23	1
2-Methylphenol	ND		9.9	0.10	ug/L		05/05/26 09:34	05/06/26 19:23	1
4-Methylphenol	ND		9.9	0.13	ug/L		05/05/26 09:34	05/06/26 19:23	1
Di-n-octyl phthalate	ND		9.9	0.30	ug/L		05/05/26 09:34	05/06/26 19:23	1
Naphthalene	ND		9.9	0.16	ug/L		05/05/26 09:34	05/06/26 19:23	1
Phenol	ND		9.9	0.092	ug/L		05/05/26 09:34	05/06/26 19:23	1

Client Sample ID: WG-007987-050126-GH-007
Lab Sample ID: 480-238181-7
Date Collected: 05/01/26 10:55
Matrix: Water
Date Received: 05/01/26 15:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*124*		*60 - 143*	*05/05/26 09:34*	*05/06/26 19:23*	*1*
2-Fluorobiphenyl	*113*		*53 - 139*	*05/05/26 09:34*	*05/06/26 19:23*	*1*
p-Terphenyl-d14	*124*		*52 - 154*	*05/05/26 09:34*	*05/06/26 19:23*	*1*
Phenol-d5	*49*		*33 - 120*	*05/05/26 09:34*	*05/06/26 19:23*	*1*
2-Fluorophenol	*75*		*26 - 120*	*05/05/26 09:34*	*05/06/26 19:23*	*1*
2,4,6-Tribromophenol	*104*		*27 - 138*	*05/05/26 09:34*	*05/06/26 19:23*	*1*

Client Sample ID: WG-007987-050126-GH-008
Lab Sample ID: 480-238181-8
Date Collected: 05/01/26 10:55
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 18:25	1
Acetone	**5.7**		5.0	3.0	ug/L			05/06/26 18:25	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 18:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 18:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 18:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 18:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 18:25	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 18:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 18:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 18:25	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 18:25	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 18:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/06/26 18:25*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*05/06/26 18:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/06/26 18:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 19:54	1
1,4-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 19:54	1
2,4-Dimethylphenol	ND		9.8	0.14	ug/L		05/05/26 09:34	05/06/26 19:54	1
2-Methylphenol	ND		9.8	0.099	ug/L		05/05/26 09:34	05/06/26 19:54	1
4-Methylphenol	ND		9.8	0.13	ug/L		05/05/26 09:34	05/06/26 19:54	1
Di-n-octyl phthalate	ND		9.8	0.29	ug/L		05/05/26 09:34	05/06/26 19:54	1
Naphthalene	ND		9.8	0.15	ug/L		05/05/26 09:34	05/06/26 19:54	1
Phenol	ND		9.8	0.091	ug/L		05/05/26 09:34	05/06/26 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*135*		*60 - 143*	*05/05/26 09:34*	*05/06/26 19:54*	*1*
2-Fluorobiphenyl	*109*		*53 - 139*	*05/05/26 09:34*	*05/06/26 19:54*	*1*
p-Terphenyl-d14	*117*		*52 - 154*	*05/05/26 09:34*	*05/06/26 19:54*	*1*
Phenol-d5	*52*		*33 - 120*	*05/05/26 09:34*	*05/06/26 19:54*	*1*
2-Fluorophenol	*79*		*26 - 120*	*05/05/26 09:34*	*05/06/26 19:54*	*1*
2,4,6-Tribromophenol	*107*		*27 - 138*	*05/05/26 09:34*	*05/06/26 19:54*	*1*

Client Sample ID: WG-007987-050126-GH-009
Lab Sample ID: 480-238181-9
Date Collected: 05/01/26 11:25
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 18:49	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 18:49	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 18:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 18:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 18:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 18:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 18:49	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 18:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 18:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 18:49	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 18:49	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 18:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*05/06/26 18:49*	*1*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*05/06/26 18:49*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/06/26 18:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 20:24	1
1,4-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 20:24	1
2,4-Dimethylphenol	ND		9.9	0.14	ug/L		05/05/26 09:34	05/06/26 20:24	1
2-Methylphenol	ND		9.9	0.10	ug/L		05/05/26 09:34	05/06/26 20:24	1
4-Methylphenol	ND		9.9	0.13	ug/L		05/05/26 09:34	05/06/26 20:24	1
Di-n-octyl phthalate	ND		9.9	0.30	ug/L		05/05/26 09:34	05/06/26 20:24	1
Naphthalene	ND		9.9	0.16	ug/L		05/05/26 09:34	05/06/26 20:24	1
Phenol	ND		9.9	0.092	ug/L		05/05/26 09:34	05/06/26 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*129*		*60 - 143*	*05/05/26 09:34*	*05/06/26 20:24*	*1*
2-Fluorobiphenyl	*116*		*53 - 139*	*05/05/26 09:34*	*05/06/26 20:24*	*1*
p-Terphenyl-d14	*111*		*52 - 154*	*05/05/26 09:34*	*05/06/26 20:24*	*1*
Phenol-d5	*50*		*33 - 120*	*05/05/26 09:34*	*05/06/26 20:24*	*1*
2-Fluorophenol	*76*		*26 - 120*	*05/05/26 09:34*	*05/06/26 20:24*	*1*
2,4,6-Tribromophenol	*105*		*27 - 138*	*05/05/26 09:34*	*05/06/26 20:24*	*1*

Client Sample ID: WG-007987-050126-GH-010
Lab Sample ID: 480-238181-10
Date Collected: 05/01/26 12:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/07/26 12:11	1
Acetone	ND		5.0	3.0	ug/L			05/07/26 12:11	1
Benzene	ND		0.70	0.41	ug/L			05/07/26 12:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/07/26 12:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/07/26 12:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/07/26 12:11	1
Tetrachloroethene	**4.0**		1.0	0.36	ug/L			05/07/26 12:11	1

Client Sample ID: WG-007987-050126-GH-010
Lab Sample ID: 480-238181-10
Date Collected: 05/01/26 12:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.83**	**J**	1.0	0.51	ug/L			05/07/26 12:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/07/26 12:11	1
trans-1,2-Dichloroethene	**13**		1.0	0.90	ug/L			05/07/26 12:11	1
Trichloroethene	**8.5**		1.0	0.46	ug/L			05/07/26 12:11	1
Vinyl chloride	**1.8**		1.0	0.90	ug/L			05/07/26 12:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/07/26 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/07/26 12:11*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*05/07/26 12:11*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/07/26 12:11*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 20:54	1
1,4-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 20:54	1
2,4-Dimethylphenol	**0.20**	**J**	9.8	0.14	ug/L		05/05/26 09:34	05/06/26 20:54	1
2-Methylphenol	**0.78**	**J**	9.8	0.099	ug/L		05/05/26 09:34	05/06/26 20:54	1
4-Methylphenol	**0.52**	**J**	9.8	0.13	ug/L		05/05/26 09:34	05/06/26 20:54	1
Di-n-octyl phthalate	ND		9.8	0.29	ug/L		05/05/26 09:34	05/06/26 20:54	1
Naphthalene	**0.61**	**J**	9.8	0.16	ug/L		05/05/26 09:34	05/06/26 20:54	1
Phenol	**0.15**	**J**	9.8	0.091	ug/L		05/05/26 09:34	05/06/26 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*130*		*60 - 143*	*05/05/26 09:34*	*05/06/26 20:54*	*1*
2-Fluorobiphenyl	*104*		*53 - 139*	*05/05/26 09:34*	*05/06/26 20:54*	*1*
p-Terphenyl-d14	*118*		*52 - 154*	*05/05/26 09:34*	*05/06/26 20:54*	*1*
Phenol-d5	*50*		*33 - 120*	*05/05/26 09:34*	*05/06/26 20:54*	*1*
2-Fluorophenol	*57*		*26 - 120*	*05/05/26 09:34*	*05/06/26 20:54*	*1*
2,4,6-Tribromophenol	*76*		*27 - 138*	*05/05/26 09:34*	*05/06/26 20:54*	*1*

Client Sample ID: WG-007987-050126-GH-011
Lab Sample ID: 480-238181-11
Date Collected: 05/01/26 13:10
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 19:36	1
Acetone	**29**		5.0	3.0	ug/L			05/06/26 19:36	1
Benzene	**0.72**		0.70	0.41	ug/L			05/06/26 19:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 19:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 19:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 19:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 19:36	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 19:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 19:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 19:36	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 19:36	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 19:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 19:36	1

Client Sample ID: WG-007987-050126-GH-011
Lab Sample ID: 480-238181-11

Date Collected: 05/01/26 13:10
Matrix: Water
Date Received: 05/01/26 15:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*05/06/26 19:36*	*1*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*		*05/06/26 19:36*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/06/26 19:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 21:25	1
1,4-Dichlorobenzene	ND		9.8	0.17	ug/L		05/05/26 09:34	05/06/26 21:25	1
2,4-Dimethylphenol	ND		9.8	0.14	ug/L		05/05/26 09:34	05/06/26 21:25	1
2-Methylphenol	**0.30**	**J I**	9.8	0.099	ug/L		05/05/26 09:34	05/06/26 21:25	1
4-Methylphenol	ND		9.8	0.13	ug/L		05/05/26 09:34	05/06/26 21:25	1
Di-n-octyl phthalate	ND		9.8	0.29	ug/L		05/05/26 09:34	05/06/26 21:25	1
Naphthalene	**0.32**	**J**	9.8	0.15	ug/L		05/05/26 09:34	05/06/26 21:25	1
Phenol	ND		9.8	0.091	ug/L		05/05/26 09:34	05/06/26 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*133*		*60 - 143*	*05/05/26 09:34*	*05/06/26 21:25*	*1*
2-Fluorobiphenyl	*110*		*53 - 139*	*05/05/26 09:34*	*05/06/26 21:25*	*1*
p-Terphenyl-d14	*100*		*52 - 154*	*05/05/26 09:34*	*05/06/26 21:25*	*1*
Phenol-d5	*46*		*33 - 120*	*05/05/26 09:34*	*05/06/26 21:25*	*1*
2-Fluorophenol	*77*		*26 - 120*	*05/05/26 09:34*	*05/06/26 21:25*	*1*
2,4,6-Tribromophenol	*108*		*27 - 138*	*05/05/26 09:34*	*05/06/26 21:25*	*1*

Client Sample ID: WG-007987-050126-GH-012
Lab Sample ID: 480-238181-12

Date Collected: 05/01/26 13:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	2.6	ug/L			05/06/26 20:00	2
Acetone	ND		10	6.0	ug/L			05/06/26 20:00	2
Benzene	ND		1.4	0.82	ug/L			05/06/26 20:00	2
Chlorobenzene	ND		2.0	1.5	ug/L			05/06/26 20:00	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/06/26 20:00	2
Methylene Chloride	ND		2.0	0.88	ug/L			05/06/26 20:00	2
Tetrachloroethene	ND		2.0	0.72	ug/L			05/06/26 20:00	2
Toluene	ND		2.0	1.0	ug/L			05/06/26 20:00	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			05/06/26 20:00	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			05/06/26 20:00	2
Trichloroethene	ND		2.0	0.92	ug/L			05/06/26 20:00	2
Vinyl chloride	ND	*+	2.0	1.8	ug/L			05/06/26 20:00	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/06/26 20:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*05/06/26 20:00*	*2*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*05/06/26 20:00*	*2*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/06/26 20:00*	*2*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		99	1.7	ug/L		05/05/26 09:34	05/06/26 21:55	10

Client Sample ID: WG-007987-050126-GH-012
Lab Sample ID: 480-238181-12
Date Collected: 05/01/26 13:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	3.2	J	99	1.7	ug/L		05/05/26 09:34	05/06/26 21:55	10
2,4-Dimethylphenol	ND		99	1.4	ug/L		05/05/26 09:34	05/06/26 21:55	10
2-Methylphenol	ND		99	1.0	ug/L		05/05/26 09:34	05/06/26 21:55	10
4-Methylphenol	1.5	J	99	1.3	ug/L		05/05/26 09:34	05/06/26 21:55	10
Di-n-octyl phthalate	ND		99	3.0	ug/L		05/05/26 09:34	05/06/26 21:55	10
Naphthalene	ND		99	1.6	ug/L		05/05/26 09:34	05/06/26 21:55	10
Phenol	ND		99	0.92	ug/L		05/05/26 09:34	05/06/26 21:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*134*		*60 - 143*	*05/05/26 09:34*	*05/06/26 21:55*	*10*
2-Fluorobiphenyl	*106*		*53 - 139*	*05/05/26 09:34*	*05/06/26 21:55*	*10*
p-Terphenyl-d14	*122*		*52 - 154*	*05/05/26 09:34*	*05/06/26 21:55*	*10*
Phenol-d5	*58*		*33 - 120*	*05/05/26 09:34*	*05/06/26 21:55*	*10*
2-Fluorophenol	*84*		*26 - 120*	*05/05/26 09:34*	*05/06/26 21:55*	*10*
2,4,6-Tribromophenol	*103*	*I*	*27 - 138*	*05/05/26 09:34*	*05/06/26 21:55*	*10*

Client Sample ID: WG-007987-050126-GH-013
Lab Sample ID: 480-238181-13
Date Collected: 05/01/26 14:15
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 20:24	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 20:24	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 20:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 20:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 20:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 20:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 20:24	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 20:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 20:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 20:24	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 20:24	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 20:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*05/06/26 20:24*	*1*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*		*05/06/26 20:24*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/06/26 20:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 22:25	1
1,4-Dichlorobenzene	ND		9.9	0.17	ug/L		05/05/26 09:34	05/06/26 22:25	1
2,4-Dimethylphenol	ND		9.9	0.14	ug/L		05/05/26 09:34	05/06/26 22:25	1
2-Methylphenol	ND		9.9	0.10	ug/L		05/05/26 09:34	05/06/26 22:25	1
4-Methylphenol	ND		9.9	0.13	ug/L		05/05/26 09:34	05/06/26 22:25	1
Di-n-octyl phthalate	ND		9.9	0.30	ug/L		05/05/26 09:34	05/06/26 22:25	1
Naphthalene	ND		9.9	0.16	ug/L		05/05/26 09:34	05/06/26 22:25	1
Phenol	ND		9.9	0.092	ug/L		05/05/26 09:34	05/06/26 22:25	1

Client Sample ID: WG-007987-050126-GH-013
Lab Sample ID: 480-238181-13

Date Collected: 05/01/26 14:15
Matrix: Water
Date Received: 05/01/26 15:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*124*		*60 - 143*	*05/05/26 09:34*	*05/06/26 22:25*	*1*
2-Fluorobiphenyl	*115*		*53 - 139*	*05/05/26 09:34*	*05/06/26 22:25*	*1*
p-Terphenyl-d14	*116*		*52 - 154*	*05/05/26 09:34*	*05/06/26 22:25*	*1*
Phenol-d5	*51*		*33 - 120*	*05/05/26 09:34*	*05/06/26 22:25*	*1*
2-Fluorophenol	*78*		*26 - 120*	*05/05/26 09:34*	*05/06/26 22:25*	*1*
2,4,6-Tribromophenol	*89*		*27 - 138*	*05/05/26 09:34*	*05/06/26 22:25*	*1*

Client Sample ID: TB
Lab Sample ID: 480-238181-14

Date Collected: 05/01/26 00:00
Matrix: Water
Date Received: 05/01/26 15:55

Method: SW846 EPA 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 20:48	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 20:48	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 20:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 20:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 20:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 20:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 20:48	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 20:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 20:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 20:48	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 20:48	1
Vinyl chloride	ND	*+	1.0	0.90	ug/L			05/06/26 20:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*05/06/26 20:48*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*05/06/26 20:48*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/06/26 20:48*	*1*

Surrogate Summary

Client: GHD Services Inc
Project/Site: 007987, Gratwick Riverside Park

Job ID: 480-238181-1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-238181-1	WG-007987-043026-GH-001	102	110	95
480-238181-2	WG-007987-043026-GH-002	104	111	97
480-238181-3	WG-007987-043026-GH-003	105	109	96
480-238181-3 MS	WG-007987-043026-GH-003	114	112	95
480-238181-3 MSD	WG-007987-043026-GH-003	113	115	95
480-238181-4	WG-007987-043026-GH-004	101	90	107
480-238181-5	WG-007987-043026-GH-005	106	111	93
480-238181-6	WG-007987-043026-GH-006	103	92	107
480-238181-7	WG-007987-050126-GH-007	105	111	94
480-238181-8	WG-007987-050126-GH-008	105	112	96
480-238181-9	WG-007987-050126-GH-009	110	113	95
480-238181-10	WG-007987-050126-GH-010	102	89	102
480-238181-11	WG-007987-050126-GH-011	105	113	94
480-238181-12	WG-007987-050126-GH-012	108	112	93
480-238181-13	WG-007987-050126-GH-013	109	114	95
480-238181-14	TB	110	112	95
LCS 480-774747/6	Lab Control Sample	109	112	95
LCS 480-774800/6	Lab Control Sample	100	89	107
MB 480-774747/8	Method Blank	107	110	95
MB 480-774800/8	Method Blank	98	90	103

Surrogate Legend

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

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHd14	PHL	2FP	TBP
Lab Sample ID	Client Sample ID	(60-143)	(53-139)	(52-154)	(33-120)	(26-120)	(27-138)
480-238181-1	WG-007987-043026-GH-001	124	112	127	53	63	93
480-238181-2	WG-007987-043026-GH-002	136	100	114	54	79	126
480-238181-2 - DL	WG-007987-043026-GH-002	139	115	113	58	87	109
480-238181-3	WG-007987-043026-GH-003	119	118	126	46	47	71
480-238181-3 MS	WG-007987-043026-GH-003	130	108	116	48	46	89
480-238181-3 MSD	WG-007987-043026-GH-003	126	111	126	55	54	79
480-238181-4	WG-007987-043026-GH-004	126	111	116	47	79	99 I
480-238181-5	WG-007987-043026-GH-005	125	120	127	55	85	121
480-238181-6	WG-007987-043026-GH-006	125	125	117	53	84	77
480-238181-7	WG-007987-050126-GH-007	124	113	124	49	75	104
480-238181-8	WG-007987-050126-GH-008	135	109	117	52	79	107
480-238181-9	WG-007987-050126-GH-009	129	116	111	50	76	105
480-238181-10	WG-007987-050126-GH-010	130	104	118	50	57	76
480-238181-11	WG-007987-050126-GH-011	133	110	100	46	77	108
480-238181-12	WG-007987-050126-GH-012	134	106	122	58	84	103 I
480-238181-13	WG-007987-050126-GH-013	124	115	116	51	78	89
LCS 480-774572/2-A	Lab Control Sample	126	119	130	54	71	113
MB 480-774572/1-A	Method Blank	118	109	119	51	66	113

Surrogate Summary

Client: GHD Services Inc
Project/Site: 007987, Gratwick Riverside Park

Job ID: 480-238181-1

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPHd14 = p-Terphenyl-d14
PHL = Phenol-d5
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol

Method: EPA 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-774747/8
Matrix: Water
Analysis Batch: 774747

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/06/26 15:03	1
Acetone	ND		5.0	3.0	ug/L			05/06/26 15:03	1
Benzene	ND		0.70	0.41	ug/L			05/06/26 15:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/26 15:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/26 15:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/26 15:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/26 15:03	1
Toluene	ND		1.0	0.51	ug/L			05/06/26 15:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/26 15:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/26 15:03	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/26 15:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/06/26 15:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/26 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*05/06/26 15:03*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*05/06/26 15:03*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/06/26 15:03*	*1*

Lab Sample ID: LCS 480-774747/6
Matrix: Water
Analysis Batch: 774747

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	27.2		ug/L		109	71 - 124
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Methylene Chloride	25.0	27.8		ug/L		111	75 - 124
Tetrachloroethene	25.0	28.0		ug/L		112	74 - 122
Toluene	25.0	23.3		ug/L		93	80 - 122
1,1-Dichloroethane	25.0	26.9		ug/L		108	77 - 120
trans-1,2-Dichloroethene	25.0	28.3		ug/L		113	73 - 127
Trichloroethene	25.0	29.6		ug/L		119	74 - 123
Vinyl chloride	25.0	33.8	*+	ug/L		135	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 480-238181-3 MS
Matrix: Water
Analysis Batch: 774747

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	ND		125	113		ug/L		90	57 - 140

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-238181-3 MS
Matrix: Water
Analysis Batch: 774747

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND		125	106		ug/L		84	56 - 142
Benzene	0.55	J	25.0	25.4		ug/L		99	71 - 124
Chlorobenzene	ND		25.0	21.2		ug/L		85	80 - 120
Ethylbenzene	ND		25.0	20.7		ug/L		83	77 - 123
Methylene Chloride	ND		25.0	24.0		ug/L		96	75 - 124
Tetrachloroethene	0.61	J	25.0	25.5		ug/L		100	74 - 122
Toluene	2.3	F1	25.0	22.2	F1	ug/L		79	80 - 122
1,1-Dichloroethane	ND		25.0	24.3		ug/L		97	77 - 120
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	73 - 127
Trichloroethene	2.5		25.0	29.7		ug/L		109	74 - 123
Vinyl chloride	ND	*+ F1	25.0	47.9	F1	ug/L		192	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 480-238181-3 MSD
Matrix: Water
Analysis Batch: 774747

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		125	115		ug/L		92	57 - 140	2	20
Acetone	ND		125	108		ug/L		86	56 - 142	2	15
Benzene	0.55	J	25.0	26.3		ug/L		103	71 - 124	4	13
Chlorobenzene	ND		25.0	22.2		ug/L		89	80 - 120	5	25
Ethylbenzene	ND		25.0	22.1		ug/L		88	77 - 123	6	15
Methylene Chloride	ND		25.0	24.6		ug/L		99	75 - 124	2	15
Tetrachloroethene	0.61	J	25.0	26.2		ug/L		102	74 - 122	2	20
Toluene	2.3	F1	25.0	23.0		ug/L		83	80 - 122	3	15
1,1-Dichloroethane	ND		25.0	24.9		ug/L		100	77 - 120	3	20
trans-1,2-Dichloroethene	ND		25.0	27.3		ug/L		109	73 - 127	3	20
Trichloroethene	2.5		25.0	30.1		ug/L		111	74 - 123	1	16
Vinyl chloride	ND	*+ F1	25.0	47.4	F1	ug/L		189	65 - 133	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 480-774800/8
Matrix: Water
Analysis Batch: 774800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	1.3	ug/L			05/07/26 09:16	1
Acetone	ND		5.0	3.0	ug/L			05/07/26 09:16	1
Benzene	ND		0.70	0.41	ug/L			05/07/26 09:16	1

Method: EPA 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-774800/8
Matrix: Water
Analysis Batch: 774800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			05/07/26 09:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/07/26 09:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/07/26 09:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/07/26 09:16	1
Toluene	ND		1.0	0.51	ug/L			05/07/26 09:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/07/26 09:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/07/26 09:16	1
Trichloroethene	ND		1.0	0.46	ug/L			05/07/26 09:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/07/26 09:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/07/26 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*05/07/26 09:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/07/26 09:16*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/07/26 09:16*	*1*

Lab Sample ID: LCS 480-774800/6
Matrix: Water
Analysis Batch: 774800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	125	117		ug/L		93	57 - 140
Acetone	125	98.1		ug/L		78	56 - 142
Benzene	25.0	26.1		ug/L		104	71 - 124
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Methylene Chloride	25.0	27.3		ug/L		109	75 - 124
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
1,1-Dichloroethane	25.0	25.2		ug/L		101	77 - 120
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Vinyl chloride	25.0	21.0		ug/L		84	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 480-774572/1-A
Matrix: Water
Analysis Batch: 774743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 774572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		10	0.17	ug/L		05/05/26 09:34	05/06/26 14:19	1
1,4-Dichlorobenzene	ND		10	0.17	ug/L		05/05/26 09:34	05/06/26 14:19	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 480-774572/1-A
Matrix: Water
Analysis Batch: 774743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 774572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		10	0.15	ug/L		05/05/26 09:34	05/06/26 14:19	1
2-Methylphenol	ND		10	0.10	ug/L		05/05/26 09:34	05/06/26 14:19	1
4-Methylphenol	ND		10	0.13	ug/L		05/05/26 09:34	05/06/26 14:19	1
Di-n-octyl phthalate	ND		10	0.30	ug/L		05/05/26 09:34	05/06/26 14:19	1
Naphthalene	ND		10	0.16	ug/L		05/05/26 09:34	05/06/26 14:19	1
Phenol	ND		10	0.093	ug/L		05/05/26 09:34	05/06/26 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*118*		*60 - 143*	*05/05/26 09:34*	*05/06/26 14:19*	*1*
2-Fluorobiphenyl	*109*		*53 - 139*	*05/05/26 09:34*	*05/06/26 14:19*	*1*
p-Terphenyl-d14	*119*		*52 - 154*	*05/05/26 09:34*	*05/06/26 14:19*	*1*
Phenol-d5	*51*		*33 - 120*	*05/05/26 09:34*	*05/06/26 14:19*	*1*
2-Fluorophenol	*66*		*26 - 120*	*05/05/26 09:34*	*05/06/26 14:19*	*1*
2,4,6-Tribromophenol	*113*		*27 - 138*	*05/05/26 09:34*	*05/06/26 14:19*	*1*

Lab Sample ID: LCS 480-774572/2-A
Matrix: Water
Analysis Batch: 774743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 774572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	5.71	4.05	J	ug/L		71	17 - 120
1,4-Dichlorobenzene	5.71	3.72	J	ug/L		65	10 - 120
2,4-Dimethylphenol	5.71	6.23	J	ug/L		109	80 - 146
2-Methylphenol	5.71	5.56	J	ug/L		97	77 - 130
4-Methylphenol	5.71	5.59	J	ug/L		98	71 - 123
Di-n-octyl phthalate	5.71	7.62	J	ug/L		133	50 - 178
Naphthalene	5.71	6.12	J	ug/L		107	55 - 127
Phenol	5.71	3.21	J	ug/L		56	41 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*126*		*60 - 143*
2-Fluorobiphenyl	*119*		*53 - 139*
p-Terphenyl-d14	*130*		*52 - 154*
Phenol-d5	*54*		*33 - 120*
2-Fluorophenol	*71*		*26 - 120*
2,4,6-Tribromophenol	*113*		*27 - 138*

Lab Sample ID: 480-238181-3 MS
Matrix: Water
Analysis Batch: 774743

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA
Prep Batch: 774572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	ND		5.67	4.99	J	ug/L		88	17 - 120
1,4-Dichlorobenzene	ND		5.67	4.48	J	ug/L		79	10 - 120
2,4-Dimethylphenol	2.0	J	5.67	8.33	J	ug/L		112	80 - 146
2-Methylphenol	4.2	J	5.67	8.97	J	ug/L		84	77 - 130
4-Methylphenol	12	J	5.67	17.1	J	ug/L		91	71 - 123
Di-n-octyl phthalate	ND		5.67	6.85	J	ug/L		121	50 - 178

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: 480-238181-3 MS
Matrix: Water
Analysis Batch: 774743

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA
Prep Batch: 774572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	ND		5.67	5.64	J	ug/L		99	55 - 127
Phenol	ND		5.67	3.34	J	ug/L		59	41 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*130*		*60 - 143*
2-Fluorobiphenyl	*108*		*53 - 139*
p-Terphenyl-d14	*116*		*52 - 154*
Phenol-d5	*48*		*33 - 120*
2-Fluorophenol	*46*		*26 - 120*
2,4,6-Tribromophenol	*89*		*27 - 138*

Lab Sample ID: 480-238181-3 MSD
Matrix: Water
Analysis Batch: 774743

Client Sample ID: WG-007987-043026-GH-003
Prep Type: Total/NA
Prep Batch: 774572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		5.67	4.45	J	ug/L		79	17 - 120	11	30
1,4-Dichlorobenzene	ND		5.67	4.16	J	ug/L		73	10 - 120	7	30
2,4-Dimethylphenol	2.0	J	5.67	7.60	J	ug/L		99	80 - 146	9	30
2-Methylphenol	4.2	J	5.67	9.70	J	ug/L		97	77 - 130	8	30
4-Methylphenol	12	J	5.67	17.7	J	ug/L		104	71 - 123	4	30
Di-n-octyl phthalate	ND		5.67	7.10	J	ug/L		125	50 - 178	4	30
Naphthalene	ND		5.67	5.88	J	ug/L		104	55 - 127	4	30
Phenol	ND		5.67	3.44	J	ug/L		61	41 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*126*		*60 - 143*
2-Fluorobiphenyl	*111*		*53 - 139*
p-Terphenyl-d14	*126*		*52 - 154*
Phenol-d5	*55*		*33 - 120*
2-Fluorophenol	*54*		*26 - 120*
2,4,6-Tribromophenol	*79*		*27 - 138*

GC/MS VOA

Analysis Batch: 774747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-1	WG-007987-043026-GH-001	Total/NA	Water	EPA 8260D	
480-238181-2	WG-007987-043026-GH-002	Total/NA	Water	EPA 8260D	
480-238181-3	WG-007987-043026-GH-003	Total/NA	Water	EPA 8260D	
480-238181-5	WG-007987-043026-GH-005	Total/NA	Water	EPA 8260D	
480-238181-7	WG-007987-050126-GH-007	Total/NA	Water	EPA 8260D	
480-238181-8	WG-007987-050126-GH-008	Total/NA	Water	EPA 8260D	
480-238181-9	WG-007987-050126-GH-009	Total/NA	Water	EPA 8260D	
480-238181-11	WG-007987-050126-GH-011	Total/NA	Water	EPA 8260D	
480-238181-12	WG-007987-050126-GH-012	Total/NA	Water	EPA 8260D	
480-238181-13	WG-007987-050126-GH-013	Total/NA	Water	EPA 8260D	
480-238181-14	TB	Total/NA	Water	EPA 8260D	
MB 480-774747/8	Method Blank	Total/NA	Water	EPA 8260D	
LCS 480-774747/6	Lab Control Sample	Total/NA	Water	EPA 8260D	
480-238181-3 MS	WG-007987-043026-GH-003	Total/NA	Water	EPA 8260D	
480-238181-3 MSD	WG-007987-043026-GH-003	Total/NA	Water	EPA 8260D	

Analysis Batch: 774800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-4	WG-007987-043026-GH-004	Total/NA	Water	EPA 8260D	
480-238181-6	WG-007987-043026-GH-006	Total/NA	Water	EPA 8260D	
480-238181-10	WG-007987-050126-GH-010	Total/NA	Water	EPA 8260D	
MB 480-774800/8	Method Blank	Total/NA	Water	EPA 8260D	
LCS 480-774800/6	Lab Control Sample	Total/NA	Water	EPA 8260D	

GC/MS Semi VOA

Prep Batch: 774572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-1	WG-007987-043026-GH-001	Total/NA	Water	3510C	
480-238181-2	WG-007987-043026-GH-002	Total/NA	Water	3510C	
480-238181-2 - DL	WG-007987-043026-GH-002	Total/NA	Water	3510C	
480-238181-3	WG-007987-043026-GH-003	Total/NA	Water	3510C	
480-238181-4	WG-007987-043026-GH-004	Total/NA	Water	3510C	
480-238181-5	WG-007987-043026-GH-005	Total/NA	Water	3510C	
480-238181-6	WG-007987-043026-GH-006	Total/NA	Water	3510C	
480-238181-7	WG-007987-050126-GH-007	Total/NA	Water	3510C	
480-238181-8	WG-007987-050126-GH-008	Total/NA	Water	3510C	
480-238181-9	WG-007987-050126-GH-009	Total/NA	Water	3510C	
480-238181-10	WG-007987-050126-GH-010	Total/NA	Water	3510C	
480-238181-11	WG-007987-050126-GH-011	Total/NA	Water	3510C	
480-238181-12	WG-007987-050126-GH-012	Total/NA	Water	3510C	
480-238181-13	WG-007987-050126-GH-013	Total/NA	Water	3510C	
MB 480-774572/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-774572/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-238181-3 MS	WG-007987-043026-GH-003	Total/NA	Water	3510C	
480-238181-3 MSD	WG-007987-043026-GH-003	Total/NA	Water	3510C	

Analysis Batch: 774743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-1	WG-007987-043026-GH-001	Total/NA	Water	8270E	774572
480-238181-2	WG-007987-043026-GH-002	Total/NA	Water	8270E	774572

GC/MS Semi VOA (Continued)

Analysis Batch: 774743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-3	WG-007987-043026-GH-003	Total/NA	Water	8270E	774572
480-238181-4	WG-007987-043026-GH-004	Total/NA	Water	8270E	774572
480-238181-5	WG-007987-043026-GH-005	Total/NA	Water	8270E	774572
480-238181-6	WG-007987-043026-GH-006	Total/NA	Water	8270E	774572
480-238181-7	WG-007987-050126-GH-007	Total/NA	Water	8270E	774572
480-238181-8	WG-007987-050126-GH-008	Total/NA	Water	8270E	774572
480-238181-9	WG-007987-050126-GH-009	Total/NA	Water	8270E	774572
480-238181-10	WG-007987-050126-GH-010	Total/NA	Water	8270E	774572
480-238181-11	WG-007987-050126-GH-011	Total/NA	Water	8270E	774572
480-238181-12	WG-007987-050126-GH-012	Total/NA	Water	8270E	774572
480-238181-13	WG-007987-050126-GH-013	Total/NA	Water	8270E	774572
MB 480-774572/1-A	Method Blank	Total/NA	Water	8270E	774572
LCS 480-774572/2-A	Lab Control Sample	Total/NA	Water	8270E	774572
480-238181-3 MS	WG-007987-043026-GH-003	Total/NA	Water	8270E	774572
480-238181-3 MSD	WG-007987-043026-GH-003	Total/NA	Water	8270E	774572

Analysis Batch: 774810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-238181-2 - DL	WG-007987-043026-GH-002	Total/NA	Water	8270E	774572

Lab Chronicle

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Client Sample ID: WG-007987-043026-GH-001
Lab Sample ID: 480-238181-1
Date Collected: 04/30/26 11:00
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 15:36
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 16:51

Client Sample ID: WG-007987-043026-GH-002
Lab Sample ID: 480-238181-2
Date Collected: 04/30/26 11:40
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		4	774747	AXK	EET BUF	05/06/26 16:00
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 17:22
Total/NA	Prep	3510C	DL		774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E	DL	10	774810	JLS	EET BUF	05/07/26 08:54

Client Sample ID: WG-007987-043026-GH-003
Lab Sample ID: 480-238181-3
Date Collected: 04/30/26 12:45
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 16:24
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 16:21

Client Sample ID: WG-007987-043026-GH-004
Lab Sample ID: 480-238181-4
Date Collected: 04/30/26 13:45
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		4	774800	AXK	EET BUF	05/07/26 11:25
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 17:52

Client Sample ID: WG-007987-043026-GH-005
Lab Sample ID: 480-238181-5
Date Collected: 04/30/26 14:20
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 17:13
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 18:22

Lab Chronicle

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Client Sample ID: WG-007987-043026-GH-006
Lab Sample ID: 480-238181-6
Date Collected: 04/30/26 15:05
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774800	AXK	EET BUF	05/07/26 11:48
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 18:53

Client Sample ID: WG-007987-050126-GH-007
Lab Sample ID: 480-238181-7
Date Collected: 05/01/26 10:55
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 18:01
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 19:23

Client Sample ID: WG-007987-050126-GH-008
Lab Sample ID: 480-238181-8
Date Collected: 05/01/26 10:55
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 18:25
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 19:54

Client Sample ID: WG-007987-050126-GH-009
Lab Sample ID: 480-238181-9
Date Collected: 05/01/26 11:25
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 18:49
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 20:24

Client Sample ID: WG-007987-050126-GH-010
Lab Sample ID: 480-238181-10
Date Collected: 05/01/26 12:00
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774800	AXK	EET BUF	05/07/26 12:11
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 20:54

Client Sample ID: WG-007987-050126-GH-011
Lab Sample ID: 480-238181-11
Date Collected: 05/01/26 13:10
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 19:36

Lab Chronicle

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Client Sample ID: WG-007987-050126-GH-011
Lab Sample ID: 480-238181-11
Date Collected: 05/01/26 13:10
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 21:25

Client Sample ID: WG-007987-050126-GH-012
Lab Sample ID: 480-238181-12
Date Collected: 05/01/26 13:00
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		2	774747	AXK	EET BUF	05/06/26 20:00
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		10	774743	JLS	EET BUF	05/06/26 21:55

Client Sample ID: WG-007987-050126-GH-013
Lab Sample ID: 480-238181-13
Date Collected: 05/01/26 14:15
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 20:24
Total/NA	Prep	3510C			774572	JMP	EET BUF	05/05/26 09:34
Total/NA	Analysis	8270E		1	774743	JLS	EET BUF	05/06/26 22:25

Client Sample ID: TB
Lab Sample ID: 480-238181-14
Date Collected: 05/01/26 00:00
Matrix: Water
Date Received: 05/01/26 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	EPA 8260D		1	774747	AXK	EET BUF	05/06/26 20:48

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-27

Method Summary

Client: GHD Services Inc
Project/Site: 007987, Gratwick Riverside Park

Job ID: 480-238181-1

Method	Method Description	Protocol	Laboratory
EPA 8260D	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET BUF
3510C	Microextraction of Organic Compounds	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

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

Sample Summary

Client: GHD Services Inc
Job ID: 480-238181-1
Project/Site: 007987, Gratwick Riverside Park

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
480-238181-1	WG-007987-043026-GH-001	Water	04/30/26 11:00	05/01/26 15:55	New York
480-238181-2	WG-007987-043026-GH-002	Water	04/30/26 11:40	05/01/26 15:55	New York
480-238181-3	WG-007987-043026-GH-003	Water	04/30/26 12:45	05/01/26 15:55	New York
480-238181-4	WG-007987-043026-GH-004	Water	04/30/26 13:45	05/01/26 15:55	New York
480-238181-5	WG-007987-043026-GH-005	Water	04/30/26 14:20	05/01/26 15:55	New York
480-238181-6	WG-007987-043026-GH-006	Water	04/30/26 15:05	05/01/26 15:55	New York
480-238181-7	WG-007987-050126-GH-007	Water	05/01/26 10:55	05/01/26 15:55	New York
480-238181-8	WG-007987-050126-GH-008	Water	05/01/26 10:55	05/01/26 15:55	New York
480-238181-9	WG-007987-050126-GH-009	Water	05/01/26 11:25	05/01/26 15:55	New York
480-238181-10	WG-007987-050126-GH-010	Water	05/01/26 12:00	05/01/26 15:55	New York
480-238181-11	WG-007987-050126-GH-011	Water	05/01/26 13:10	05/01/26 15:55	New York
480-238181-12	WG-007987-050126-GH-012	Water	05/01/26 13:00	05/01/26 15:55	New York
480-238181-13	WG-007987-050126-GH-013	Water	05/01/26 14:15	05/01/26 15:55	New York
480-238181-14	TB	Water	05/01/26 00:00	05/01/26 15:55	New York

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: G. Harlach	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-213394-42742.1
Client Contact: Julie Lundie	Phone:	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: GHD Services Inc	PWSID:			Job #:
Address: 2055 Niagara Falls Blvd Suite 1	Due Date Requested:			Preservation Codes: N - None A - HCL
City: Niagara Falls	TAT Requested (days):			
State, Zip: NY, 14304	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: julie.lundie@ghd.com	WO #: 7987			
Project Name: 7987, Gratwick Riverside Park	Project #: 48011970			
Site:	SSOW#:			

480-238181 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E_QQQ - Selected SVOAs	8260D - Selected VOAs	Total Number of conta	Special Instructions/Note:
			Preservation Code:				N	A		
WG-007987-043026-GH-001	4/30/26	11:00	G	Water	N		✓	✓	5	
" - " - " - " -002	"	11:40	"	Water	N		✓	✓	5	
" - " - " - " -003	"	12:45	"	Water	Y		✓	✓	5	
" - " - " - " -004	"	13:45	"	Water	N		✓	✓	5	
" - " - " - " -005	"	14:20	"	Water	N		✓	✓	5	
" - " - " - " -006	"	15:05	"	Water	N		✓	✓	5	
" - " - 050126 - " -007	5/1/26	10:55	"	Water	N		✓	✓	5	
" - " - " - " -008	"	10:55	"	Water	N		✓	✓	5	
" - " - " - " -009	"	11:25	"	Water	N		✓	✓	5	
" - " - " - " -010	"	12:00	"	Water	N		✓	✓	5	
" - " - " - " -011	"	13:10	"	Water	N		✓	✓	5	

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ 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: 5/1/26 3:55	Company: GHD	Received by:	Date/Time: 5-1-26 1555	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4, 3.7 IR#5C ICE

Ver: 03/20/2026

Phone: 716-691-2600 Fax: 716-691-7991

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Client Information

Client Contact: Julie Lundie	Sampler:	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-213394-42742.2
Company: GHD Services Inc	Phone:	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Address: 2055 Niagara Falls Blvd Suite 1	PWSID:	Due Date Requested:		Job #:
City: Niagara Falls		TAT Requested (days):		
State, Zip: NY, 14304		Compliance Project: Δ Yes Δ No		
Phone:		PO #: Purchase Order Requested		
Email: julie.lundie@ghd.com		WO #: 7987		
Project Name: 7987, Gratwick Riverside Park		Project #: 48011970		
Site:		SSOW#:		

Analysis Requested

Preservation Codes: N - None; A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E_QQQ - Selected SVOAs	8260D - Selected VOAs	Total Number of containers	Special Instructions/Note:
	Preservation Code:						N	A		
WG-007987-050126-GH-012	5/1/26	13:00	G	Water	N	N	✓	✓	5	
" - " - " - " -013	"	14:15	G	Water	N	N	✓	✓	5	
TB	(TB)	TB	TB	Water	N	N			4	
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/1/26 3:55	Company: GHD	Received by: See pg1	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: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 03/20/2026

Login Sample Receipt Checklist

Client: GHD Services Inc

Job Number: 480-238181-1

Login Number: 238181
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

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	
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	GHD
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix E

QA/QC Reviews and Data Usability Summary

Data Verification Report

June 22, 2026

To	Shaun McEvoy	**Project No.**	007987
Copy to	File	**DVR No.**	64
From	Julie Lundie/cs	**Contact No.**	716-242-6946
Project Name	Gratwick Park Remedial Program	**Email**	Julie.Lundie@ghd.com
Subject	Analytical Results and Data Verification Wastewater Sampling City of North Tonawanda – Gratwick-Riverside Park North Tonawanda, New York October 2025		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for samples collected in support of the Wastewater Sampling at the Gratwick-Riverside Park site during October 2025. Samples were submitted to Pace Analytical Services located in Westborough, Massachusetts, and several analyses were performed in the North Tonawanda City Lab. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples, and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "Quality Assurance Project Plan – Operation and Maintenance (O&M) Program Gratwick Riverside Park – North Tonawanda, New York", City of North Tonawanda, September 2022.
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-R-20-006, November 2020.
3. "National Functional Guidelines for Organic Superfund Methods Data Review", USEPA 540-R-20-005, November 2020.

Items 2 and 3 will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), and semi-volatile organic compound (SVOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of one per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory control limits. All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. For this study, MS samples were prepared and analyzed by the laboratory as specified in Table 1.

The MS results were evaluated per the "Guidelines" using the laboratory control limits.

All MS analyses performed met the above criteria demonstrating acceptable analytical accuracy.

7. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, a duplicate sample was prepared and analyzed by the laboratory for alkalinity as specified in Table 1. The duplicate results were evaluated per the "Guidelines" using the laboratory control limits.

The duplicate analysis performed met the above criteria demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample. To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

10. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards,



Julie Lundie
Chemistry Data Validator/Analytical Coordinator

Table 1

Sample Collection and Analysis Summary
Wastewater Sampling
City of North Tonawanda - Gratwick-Riverside Park
North Tonawanda, New York
October 2025

						Parameters																
Sample Delivery Group	**Sample Identification**	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Metals**	**Mercury**	**Alkalinity**	**Ammonia-N**	**BOD**	**Chloride**	**Nitrate**	**Oil and Grease**	**Phosphate phosporus**	**Sulfate**	**Sulfide**	**Total Cyanide**	**TDS**	**TKN**	**TSS**	**Comments**
EZ102325	GRP	Effluent	Water	10/23/2025	12:00	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
L2567176	GRP-1	Effluent	Water	10/23/2025	09:45	X													X		X		
L2567176	GRP-2	Effluent	Water	10/23/2025	09:40		X	X	X	X			X	X			X			X			MS, DUP
L2567176	TRIP BLANK	-	Water	10/23/2025	-	X																	Trip Blank

Notes:

DUP	- Laboratory Duplicate
MS	- Matrix Spike
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
TDS	- Total Suspended Solids
TKN	- Total Kjeldahl Nitrogen
BOD	- Biological Oxygen Demand
N	- Nitrogen
TSS	- Total Suspended Solids
-	- Not applicable

Table 2

Analytical Results Summary
Wastewater Sampling
City of North Tonawanda - Gratwick Riverside Park
North Tonawanda, New York
October 2025

Location ID:		Effluent	Effluent	Effluent
Sample Name:		GRP-1	GRP-2	GRP-City Data
Sample Date:		10/23/2025	10/23/2025	10/23/2025
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	2.0 U	--	U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	--	--
1,1,2-Trichloroethane	µg/L	1.5 U	--	--
1,1-Dichloroethane	µg/L	1.8	--	1.8
1,1-Dichloroethene	µg/L	1.0 U	--	--
1,2-Dichlorobenzene	µg/L	0.85 J	--	0.85
1,2-Dichloroethane	µg/L	1.5 U	--	U
1,2-Dichloropropane	µg/L	3.5 U	--	--
1,3-Dichlorobenzene	µg/L	3.4 J	--	--
1,3-Dichloropropene	µg/L	1.5 U	--	--
1,4-Dichlorobenzene	µg/L	14	--	14.0
2,4-Dimethylphenol	µg/L	--	--	U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	--	U
2-Chloroethyl vinyl ether	µg/L	10 U	--	--
2-Methylphenol	µg/L	--	--	U
4-Methylphenol	µg/L	--	--	U
Acetone	µg/L	2.6 J	--	2.6
Acrolein	µg/L	8.0 U	--	--
Acrylonitrile	µg/L	10 U	--	--
Benzene	µg/L	0.79 J	--	0.79
Bromodichloromethane	µg/L	1.0 U	--	--
Bromoform	µg/L	1.0 U	--	--
Bromomethane (Methyl bromide)	µg/L	5.0 U	--	--
Carbon tetrachloride	µg/L	1.0 U	--	--
Chlorobenzene	µg/L	2.2 J	--	2.2
Chloroethane	µg/L	2.0 U	--	--
Chloroform (Trichloromethane)	µg/L	1.0 U	--	--
Chloromethane (Methyl chloride)	µg/L	5.0 U	--	--
cis-1,3-Dichloropropene	µg/L	1.5 U	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	U
Dibromochloromethane	µg/L	1.0 U	--	--
Ethylbenzene	µg/L	2.1	--	2.1
m&p-Xylenes	µg/L	6.8	--	--
Methylene chloride	µg/L	1.0 U	--	U
Naphthalene	µg/L	--	--	U
o-Xylene	µg/L	3.5	--	--
Phenol	µg/L	--	--	1.96
Styrene	µg/L	1.0 U	--	U
Tetrachloroethene	µg/L	2.0	--	2.0
Toluene	µg/L	7.3	--	7.3
trans-1,2-Dichloroethene	µg/L	1.7	--	1.7
trans-1,3-Dichloropropene	µg/L	1.5 U	--	--
Trichloroethene	µg/L	9.0	--	9.0
Vinyl chloride	µg/L	3.9	--	3.9
Xylenes (total)	µg/L	10	--	10

Table 2

Analytical Results Summary
Wastewater Sampling
City of North Tonawanda - Gratwick Riverside Park
North Tonawanda, New York
October 2025

Location ID:		Effluent	Effluent	Effluent
Sample Name:		GRP-1	GRP-2	GRP-City Data
Sample Date:		10/23/2025	10/23/2025	10/23/2025
Parameters	**Unit**			
Semivolatile Organic Compounds				
1,2,4-Trichlorobenzene	µg/L	--	7.18	--
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	2.00 U	--
2,4,6-Trichlorophenol	µg/L	--	1.04 J	--
2,4-Dichlorophenol	µg/L	--	5.00 U	--
2,4-Dimethylphenol	µg/L	--	5.00 U	--
2,4-Dinitrophenol	µg/L	--	20.0 U	--
2,4-Dinitrotoluene	µg/L	--	5.00 U	--
2,6-Dinitrotoluene	µg/L	--	5.00 U	--
2-Chloronaphthalene	µg/L	--	2.00 U	--
2-Chlorophenol	µg/L	--	2.00 U	--
2-Nitrophenol	µg/L	--	5.00 U	--
3,3'-Dichlorobenzidine	µg/L	--	5.00 U	--
4,6-Dinitro-2-methylphenol	µg/L	--	10.0 U	--
4-Bromophenyl phenyl ether	µg/L	--	2.00 U	--
4-Chloro-3-methylphenol	µg/L	--	2.00 U	--
4-Chlorophenyl phenyl ether	µg/L	--	2.00 U	--
4-Nitrophenol	µg/L	--	10.0 U	--
Acenaphthene	µg/L	--	2.00 U	--
Acenaphthylene	µg/L	--	2.00 U	--
Anthracene	µg/L	--	2.00 U	--
Azobenzene	µg/L	--	2.00 U	--
Benzidine	µg/L	--	20.0 U	--
Benzo(a)anthracene	µg/L	--	2.00 U	--
Benzo(a)pyrene	µg/L	--	2.00 U	--
Benzo(b)fluoranthene	µg/L	--	2.00 U	--
Benzo(g,h,i)perylene	µg/L	--	2.00 U	--
Benzo(k)fluoranthene	µg/L	--	2.00 U	--
bis(2-Chloroethoxy)methane	µg/L	--	5.00 U	--
bis(2-Chloroethyl)ether	µg/L	--	2.00 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	2.20 U	--
Butyl benzylphthalate (BBP)	µg/L	--	5.00 U	--
Chrysene	µg/L	--	2.00 U	--
Di-n-butylphthalate (DBP)	µg/L	--	5.00 U	--
Di-n-octyl phthalate (DnOP)	µg/L	--	5.00 U	--
Dibenz(a,h)anthracene	µg/L	--	2.00 U	--
Diethyl phthalate	µg/L	--	5.00 U	--
Dimethyl phthalate	µg/L	--	5.00 U	--
Fluoranthene	µg/L	--	2.00 U	--
Fluorene	µg/L	--	2.00 U	--
Hexachlorobenzene	µg/L	--	2.00 U	--

Table 2

Analytical Results Summary
Wastewater Sampling
City of North Tonawanda - Gratwick Riverside Park
North Tonawanda, New York
October 2025

Location ID:		Effluent	Effluent	Effluent
Sample Name:		GRP-1	GRP-2	GRP-City Data
Sample Date:		10/23/2025	10/23/2025	10/23/2025
Parameters	**Unit**			
Semivolatile Organic Compounds				
Hexachlorobutadiene	µg/L	--	2.00 U	--
Hexachlorocyclopentadiene	µg/L	--	10.0 U	--
Hexachloroethane	µg/L	--	2.00 U	--
Indeno(1,2,3-cd)pyrene	µg/L	--	2.00 U	--
Isophorone	µg/L	--	5.00 U	--
N-Nitrosodi-n-propylamine	µg/L	--	5.00 U	--
N-Nitrosodimethylamine	µg/L	--	2.00 U	--
N-Nitrosodiphenylamine	µg/L	--	2.00 U	--
Naphthalene	µg/L	--	2.00 U	--
Nitrobenzene	µg/L	--	2.00 U	--
Pentachlorophenol	µg/L	--	1.22 J	--
Phenanthrene	µg/L	--	2.00 U	--
Phenol	µg/L	--	1.96 J	--
Pyrene	µg/L	--	2.00 U	--
Metals				
Aluminum	mg/L	--	0.361	0.361
Antimony	mg/L	--	0.0500 U	U
Arsenic	mg/L	--	0.0050 U	U
Barium	mg/L	--	0.0704	0.0704
Beryllium	mg/L	--	0.0050 U	U
Cadmium	mg/L	--	0.0050 U	U
Chromium	mg/L	--	0.0100 U	U
Copper	mg/L	--	0.0100 U	U
Iron	mg/L	--	0.0819	0.0819
Lead	mg/L	--	0.0100 U	U
Magnesium	mg/L	--	1.51	1.51
Manganese	mg/L	--	0.0060 J	0.0060
Mercury	mg/L	--	0.00012 J	0.00012
Nickel	mg/L	--	0.0250 U	U
Selenium	mg/L	--	0.0100 U	U
Silver	mg/L	--	0.0070 U	U
Sodium	mg/L	--	168	168
Zinc	mg/L	--	0.0050 U	U

Table 2

Analytical Results Summary
Wastewater Sampling
City of North Tonawanda - Gratwick Riverside Park
North Tonawanda, New York
October 2025

Location ID:		**Effluent**	**Effluent**	**Effluent**
Sample Name:		**GRP-1**	**GRP-2**	**GRP-City Data**
Sample Date:		**10/23/2025**	**10/23/2025**	**10/23/2025**
Parameters	**Unit**			
General Chemistry				
Alkalinity, bicarbonate	mg/L	--	--	U
Alkalinity, total (as CaCO3)	mg/L	--	83.9	83.9
Ammonia-N	mg/L	--	--	1.0 U
Bicarbonate (as CaCO3)	mg/L	--	2.00 U	--
Biochemical oxygen demand (BOD)	mg/L	--	--	5.21
Chloride	mg/L	--	240	240
Cyanide (total)	mg/L	0.002 J	--	--
Hardness	mg/L	--	--	U
Nitrate	mg/L	--	--	0.11
Nitrate (as N)	mg/L	--	0.11	--
Nitrite (as N)	mg/L	--	0.050 U	--
Oil and grease	mg/L	--	--	3.2 U
Phosphate phosporus	mg/L	--	--	0.066
Sulfate	mg/L	--	130	130
Sulfide	mg/L	--	--	1.9
Total CN	mg/L	--	--	0.002
Total dissolved solids (TDS)	mg/L	--	--	700
Total kjeldahl nitrogen (TKN)	mg/L	2.66	--	2.66
Total solids (dissolved)	mg/L	--	700	--
Total suspended solids (TSS)	mg/L	--	--	2.5 U
pH (water)	s.u.	--	--	10.46 / 10.90

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
-- - Not analyzed
s.u. - standard units
N - Nitrogen
CaCO3 - Calcium Carbonate

Table 3

Analytical Methods
Wastewater Sampling
City of Tonawanda - Gratwick-Riverside Park
Tonawanda, New York
October 2025

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds	EPA 624.1	Water	--	14
Semivolatile Organic Compounds	EPA 625.1	Water	7	40
Metals	EPA 200.7	Water	--	180
Mercury	EPA 245.1	Water	--	28
Alkalinity	SM 2320B	Water	--	14
Ammonia-N	SM 4500-NH3 C	Water	--	28
Biological Oxygen Demand	SM 5210B	Water	--	48 Hours
Chloride	EPA 300.0	Water	--	28
Nitrate	EPA 353.2	Water	--	48 Hours
Oil and Grease	SM 5520 B	Water	--	28
Phosphate phosporus	SM 4000-P	Water	--	48 Hours
Sulfate	EPA 300.0	Water	--	28
Sulfide	SM 4500S2-F	Water	--	7
Cyanide	EPA 335.4	Water	--	14
Total Dissolved Solids	SM 2540C	Water	--	7
Total Kjeldahl Nitrogen	EPA 351.1	Water	--	28
TSS	SM 2540D	Water	--	7

Notes:

-- - Not applicable
N - Nitrogen
TSS - Total Suspended Solids

Method References:

EPA MCA - "Methods for Organic Analysis of Municipal and Industrial Wastewater", 40 CFR, Part 136 Appendix A, October 26, 1984.
EPA - MCAWW - “Methods for Chemical Analysis of Water and Waste,” EPA-600/4-79-020, revised March 1983, with subsequent revisions.
SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions.

Data Validation Report

June 03, 2026

To	John Pentilchuk	**Project No.**	007987
Copy to	Julie Lundie; Shaun McEvoy; Kevin Miller	**DVR No.**	53
From	Nancy Bergstrom/cs	**Contact No.**	773.380.9237
Project Name	Gratwick Park Remedial Program	**Email**	nancy.bergstrom@ghd.com
Subject	Analytical Results and Full Validation Annual Groundwater Monitoring Gratwick-Riverside Park North Tonawanda, New York April 2026		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a full validation of analytical results for samples collected in support of the Annual Groundwater Monitoring at the Gratwick-Riverside Park site during April 2026. Samples were submitted to Eurofins Environment Testing, located in Amherst, New York. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples, and field quality assurance/quality control (QA/QC) samples. The assessment of analytical and in-house data included checks for: data consistency, adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "Quality Assurance Project Plan – Operation and Maintenance (O&M) Program Gratwick Riverside Park – North Tonawanda, New York", City of North Tonawanda, September 2022.
2. "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 540-R-20-005, November 2020.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) and Triple Quadrupole (QQQ) GC-MS/MS – Tuning and Mass Calibration - Instrument Performance Checks

3.1 Volatile Organic Compound (VOC) Analysis

Prior to VOC analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated.

The tuning compound was analyzed as required prior to instrument calibration. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Semi-volatile Organic Compound (SVOC) Analysis

Prior to SVOC analysis, triple quadrupole GC-MS/MS instrumentation is evaluated for the ability to achieve mass accuracy and mass resolution criteria per the instrument's manufacturer specifications by analyzing a daily instrument performance check. The daily instrument performance checks were analyzed at the required frequency throughout SVOC analysis periods. All criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a minimum five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. All relative response factors (RRFs) must be greater than or equal to the method acceptance criteria.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent or a minimum coefficient of determination (R^2) of 0.99 if linear and quadratic regression calibration curves are used.

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Continuing Calibration

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

1. All RRF values must be greater than or equal to the method acceptance criteria.
2. Percent difference (%D) or %Drift values must not exceed 20.0 percent.

All calibration standards were analyzed at the required frequency. All percent difference (%D) values met the above criteria indicating acceptable instrument calibration throughout the analysis period with a few exceptions. Table 4 presents the sample results that were qualified due to outlying %Ds.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

7. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC and SVOC determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. For SVOC analyses, it is generally acceptable for there to be one outlying surrogate in the base/neutral or acid fraction provided that the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria.

8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC and SVOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

1. The retention time of the IS must not vary more than ±30 seconds (±10 seconds for VOCs) from the associated calibration standard.
2. IS area counts must not vary by more than a factor of two (50 percent to +100 percent) from the associated calibration standard.

All organic IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of one per analytical batch.

High LCS recoveries do not impact any associated non-detect sample results.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits or met the above criterion, demonstrating acceptable analytical accuracy.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and RPD.

High MS/MSD recoveries do not impact any associated non-detect sample results.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits or met the above criteria, demonstrating acceptable analytical accuracy and precision.

11. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

11.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

11.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision.

12. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the RL in Table 2.

13. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

14. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Regards,



Nancy Bergstrom
Data Validator/Analytical Coordinator

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

Sample Delivery Group	Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters		Comments
						VOCs	SVOCs	
480-238181-1	WG-007987-043026-GH-001	OGC4	Groundwater	04/30/2026	11:00	X	X	
	WG-007987-043026-GH-002	MW9	Groundwater	04/30/2026	11:40	X	X	
	WG-007987-043026-GH-003	OGC8	Groundwater	04/30/2026	12:45	X	X	MS/MSD
	WG-007987-043026-GH-004	MW8	Groundwater	04/30/2026	13:45	X	X	
	WG-007987-043026-GH-005	OGC3	Groundwater	04/30/2026	14:20	X	X	
	WG-007987-043026-GH-006	OGC7	Groundwater	04/30/2026	15:05	X	X	
	WG-007987-050126-GH-007	OGC2	Groundwater	05/01/2026	10:55	X	X	
	WG-007987-050126-GH-008	OGC2	Groundwater	05/01/2026	10:55	X	X	FD (WG-007987-050126-GH-007)
	WG-007987-050126-GH-009	MW7	Groundwater	05/01/2026	11:25	X	X	
	WG-007987-050126-GH-010	OGC6	Groundwater	05/01/2026	12:00	X	X	
	WG-007987-050126-GH-011	OGC5	Groundwater	05/01/2026	13:10	X	X	
	WG-007987-050126-GH-012	MW6	Groundwater	05/01/2026	13:00	X	X	
	WG-007987-050126-GH-013	OGC1	Groundwater	05/01/2026	14:15	X	X	
	TB	--	Water	05/01/2026	--	X		Trip Blank

Notes:

FD	- Field Duplicate Sample of sample in parentheses
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
SVOCs	- Semi-volatile Organic Compounds
VOCs	- Volatile Organic Compounds
--	- Not applicable

Table 2

Analytical Results Summary
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

Location ID:		MW6	MW7	MW8	MW9	OGC1
Sample Name:		WG-007987-050126-GH-012	WG-007987-050126-GH-009	WG-007987-043026-GH-004	WG-007987-043026-GH-002	WG-007987-050126-GH-013
Sample Date:		05/01/2026	05/01/2026	04/30/2026	04/30/2026	05/01/2026
Parameters	**Unit**					
Volatile Organic Compounds						
1,1-Dichloroethane	µg/L	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	5.0 U	20 U	20 U	5.0 U
Acetone	µg/L	10 U	5.0 U	30	20 U	5.0 U
Benzene	µg/L	1.4 U	0.70 U	3.3	2.8 U	0.70 U
Chlorobenzene	µg/L	2.0 U	1.0 U	6.8	8.8	1.0 U
Ethylbenzene	µg/L	2.0 U	1.0 U	3.2 J	4.0 U	1.0 U
Methylene chloride	µg/L	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Tetrachloroethene	µg/L	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Toluene	µg/L	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	2.0 U	1.0 U	4.0 U	4.0 U	1.0 U
Trichloroethene	µg/L	2.0 U	1.0 U	2.9 J	4.0 U	1.0 U
Vinyl chloride	µg/L	2.0 UJ	1.0 UJ	4.0 UJ	4.0 UJ	1.0 UJ
Xylenes (total)	µg/L	4.0 U	2.0 U	8.0 U	8.0 U	2.0 U
Semivolatile Organic Compounds						
1,2-Dichlorobenzene	µg/L	99 U	9.9 U	98 U	1.5 J	9.9 U
1,4-Dichlorobenzene	µg/L	3.2 J	9.9 U	65 J	4.4 J	9.9 U
2,4-Dimethylphenol	µg/L	99 U	9.9 U	20 J	31 J	9.9 U
2-Methylphenol	µg/L	99 U	9.9 U	21 J	7.3 J	9.9 U
4-Methylphenol	µg/L	1.5 J	9.9 U	11 J	100	9.9 U
Di-n-octyl phthalate (DnOP)	µg/L	99 UJ	9.9 UJ	98 UJ	9.9 UJ	9.9 UJ
Naphthalene	µg/L	99 U	9.9 U	98 U	0.35 J	9.9 U
Phenol	µg/L	99 U	9.9 U	1.9 J	16	9.9 U

Table 2

Analytical Results Summary
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

	Location ID:	OGC2	OGC2	OGC3	OGC4
	Sample Name:	WG-007987-050126-GH-007	WG-007987-050126-GH-008	WG-007987-043026-GH-005	WG-007987-043026-GH-001
	Sample Date:	05/01/2026	05/01/2026	04/30/2026	04/30/2026
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	4.8 J	5.7	3.2 J	5.0 U
Benzene	µg/L	0.70 U	0.70 U	0.70 U	0.70 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	0.60 J	1.0 U
Vinyl chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds					
1,2-Dichlorobenzene	µg/L	9.9 U	9.8 U	99 U	98 U
1,4-Dichlorobenzene	µg/L	9.9 U	9.8 U	99 U	98 U
2,4-Dimethylphenol	µg/L	9.9 U	9.8 U	6.4 J	98 U
2-Methylphenol	µg/L	9.9 U	9.8 U	18 J	98 U
4-Methylphenol	µg/L	9.9 U	9.8 U	12 J	98 U
Di-n-octyl phthalate (DnOP)	µg/L	9.9 UJ	9.8 UJ	99 UJ	98 UJ
Naphthalene	µg/L	9.9 U	9.8 U	99 U	98 U
Phenol	µg/L	9.9 U	9.8 U	26 J	98 U

Table 2

Analytical Results Summary
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

Location ID:		OGC5	OGC6	OGC7	OGC8
Sample Name:		WG-007987-050126-GH-011	WG-007987-050126-GH-010	WG-007987-043026-GH-006	WG-007987-043026-GH-003
Sample Date:		05/01/2026	05/01/2026	04/30/2026	04/30/2026
Parameters	**Unit**				
Volatile Organic Compounds					
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	29	5.0 U	5.0 U	5.0 U
Benzene	µg/L	0.72	0.70 U	0.70 U	0.55 J
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	4.0	1.0 U	0.61 J
Toluene	µg/L	1.0 U	0.83 J	1.5	2.3
trans-1,2-Dichloroethene	µg/L	1.0 U	13	1.1	1.0 U
Trichloroethene	µg/L	1.0 U	8.5	3.4	2.5
Vinyl chloride	µg/L	1.0 UJ	1.8 J	2.3 J	1.0 UJ
Xylenes (total)	µg/L	2.0 U	2.0 U	1.0 J	0.99 J
Semivolatile Organic Compounds					
1,2-Dichlorobenzene	µg/L	9.8 U	9.8 U	99 U	99 U
1,4-Dichlorobenzene	µg/L	9.8 U	9.8 U	99 U	99 U
2,4-Dimethylphenol	µg/L	9.8 U	0.20 J	99 U	2.0 J
2-Methylphenol	µg/L	0.30 J	0.78 J	99 U	4.2 J
4-Methylphenol	µg/L	9.8 U	0.52 J	99 U	12 J
Di-n-octyl phthalate (DnOP)	µg/L	9.8 UJ	9.8 UJ	99 UJ	99 UJ
Naphthalene	µg/L	0.32 J	0.61 J	99 U	99 U
Phenol	µg/L	9.8 U	0.15 J	99 U	99 U

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

Parameter	Method	Matrix	Holding Time: Collection to Extraction (Days)	Holding Time: Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260D	Water	--	14
Semivolatile Organic Compounds (SVOCs)	SW-846 8270E	Water	7	40

Note:

-- - Not applicable

Method Reference:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Annual Groundwater Monitoring
Gratwick-Riverside Park
North Tonawanda, New York
April 2026

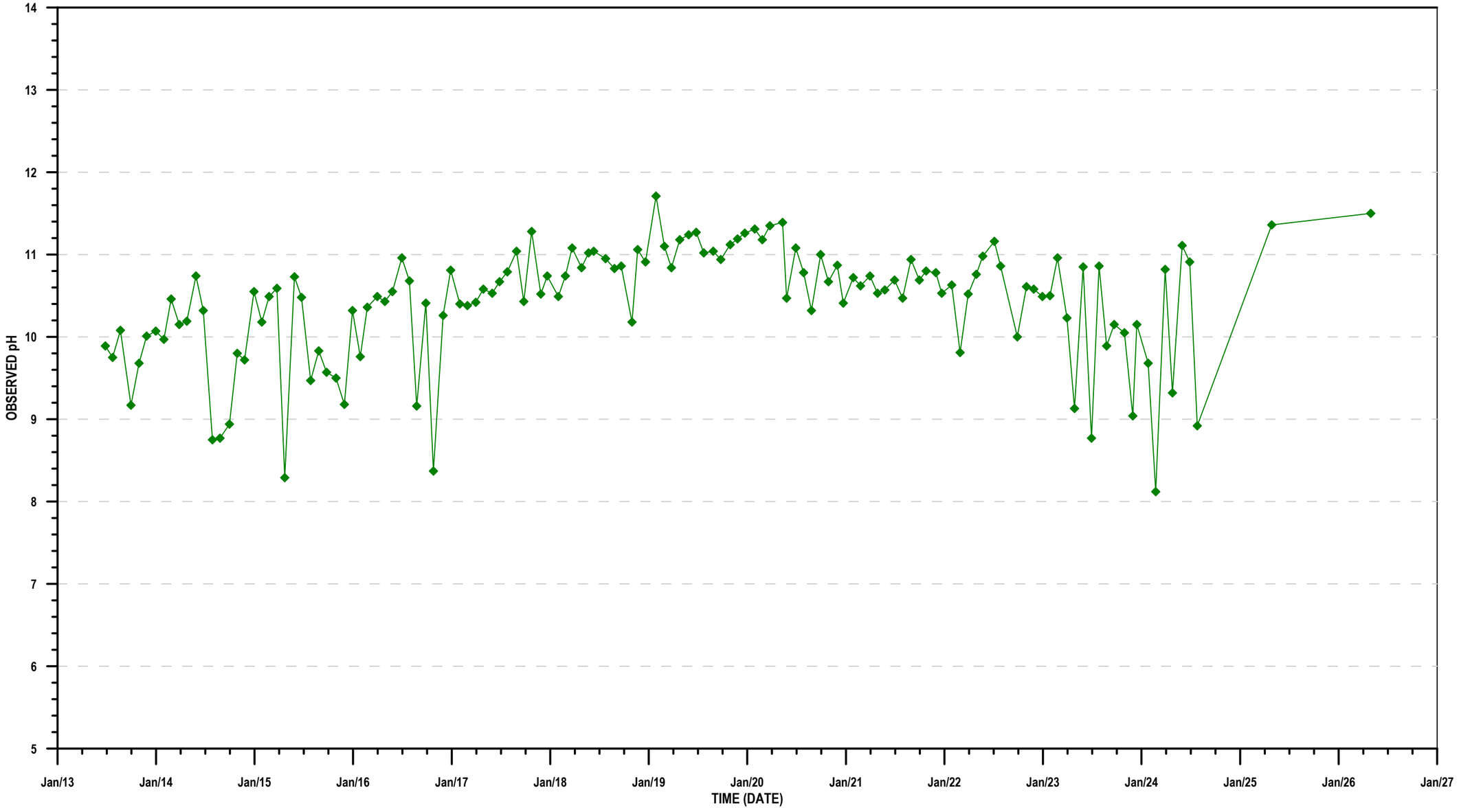
Parameter	Analyte	Calibration Date (mm/dd/yyyy)	RRF	%D	Associated Sample ID	Qualified Result	Units
VOCs	Vinyl chloride	05/07/2026	--	-21.0	WG-007987-043026-GH-004	4.0 UJ	µg/L
					WG-007987-043026-GH-006	2.3 J	µg/L
					WG-007987-050126-GH-010	1.8 J	µg/L
VOCs	Vinyl chloride	05/06/2026	--	24.0	WG-007987-043026-GH-001	1.0 UJ	µg/L
					WG-007987-043026-GH-002	4.0 UJ	µg/L
					WG-007987-043026-GH-003	1.0 UJ	µg/L
					WG-007987-043026-GH-005	1.0 UJ	µg/L
					WG-007987-050126-GH-007	1.0 UJ	µg/L
					WG-007987-050126-GH-008	1.0 UJ	µg/L
					WG-007987-050126-GH-009	1.0 UJ	µg/L
					WG-007987-050126-GH-011	1.0 UJ	µg/L
					WG-007987-050126-GH-012	2.0 UJ	µg/L
					WG-007987-050126-GH-013	1.0 UJ	µg/L
SVOCs	Di-n-octyl phthalate	05/06/2026	--	31.0	WG-007987-043026-GH-001	98 UJ	µg/L
					WG-007987-043026-GH-002	9.9 UJ	µg/L
					WG-007987-043026-GH-003	99 UJ	µg/L
					WG-007987-043026-GH-004	98 UJ	µg/L
					WG-007987-043026-GH-005	99 UJ	µg/L
					WG-007987-043026-GH-006	99 UJ	µg/L
					WG-007987-050126-GH-007	9.9 UJ	µg/L
					WG-007987-050126-GH-008	9.8 UJ	µg/L
					WG-007987-050126-GH-009	9.9 UJ	µg/L
					WG-007987-050126-GH-010	9.8 UJ	µg/L
					WG-007987-050126-GH-011	9.8 UJ	µg/L
					WG-007987-050126-GH-012	99 UJ	µg/L
					WG-007987-050126-GH-013	9.9 UJ	µg/L

Notes:

-- Not applicable
%D - Percent difference
RRF - Relative Response Factor
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Appendix F

pH vs Time Graphs



LEGEND

MW-6

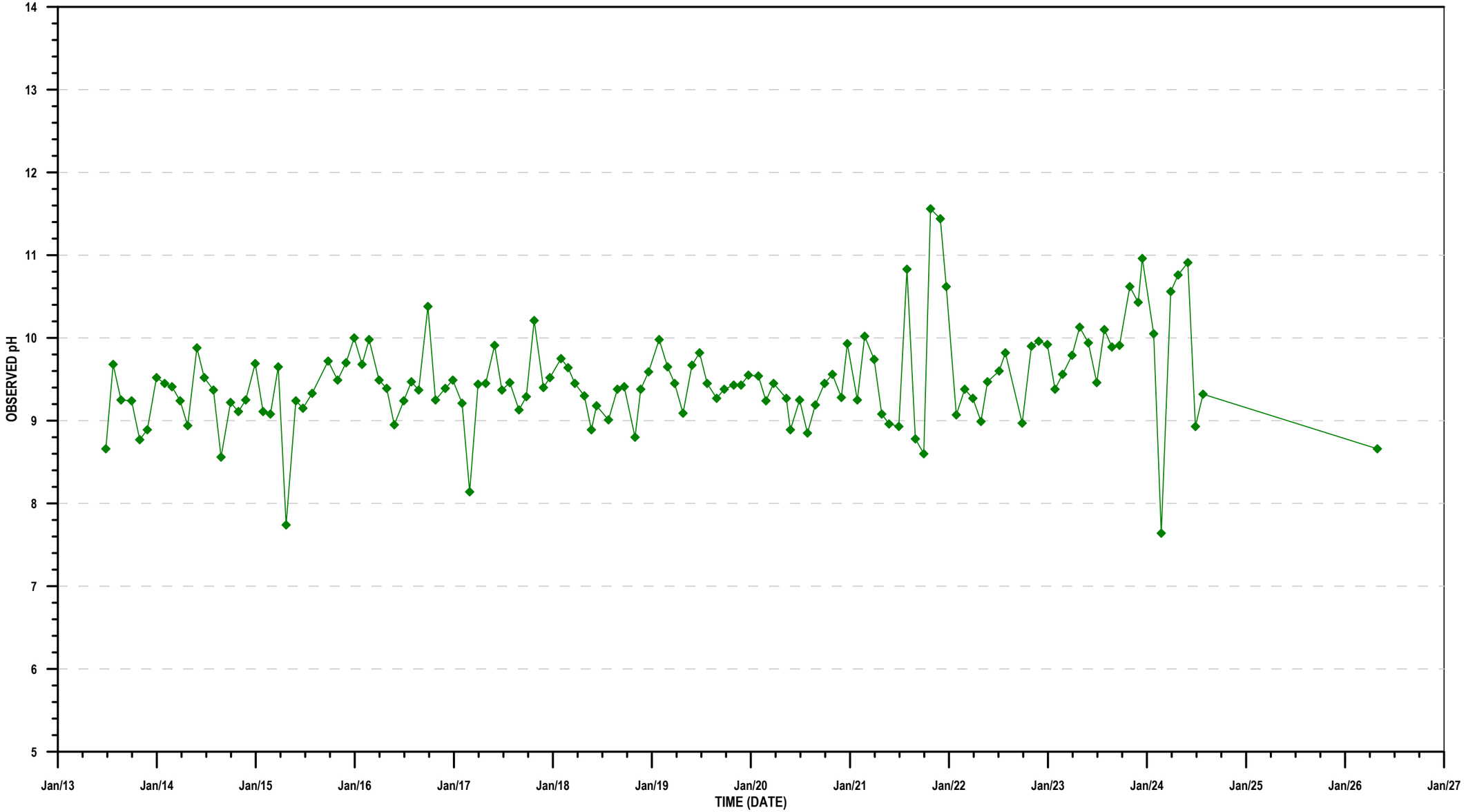
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT MW-6

Project No. **007987**
Date **June 2026**

FIGURE F.1

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\MW-6.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

MW-7

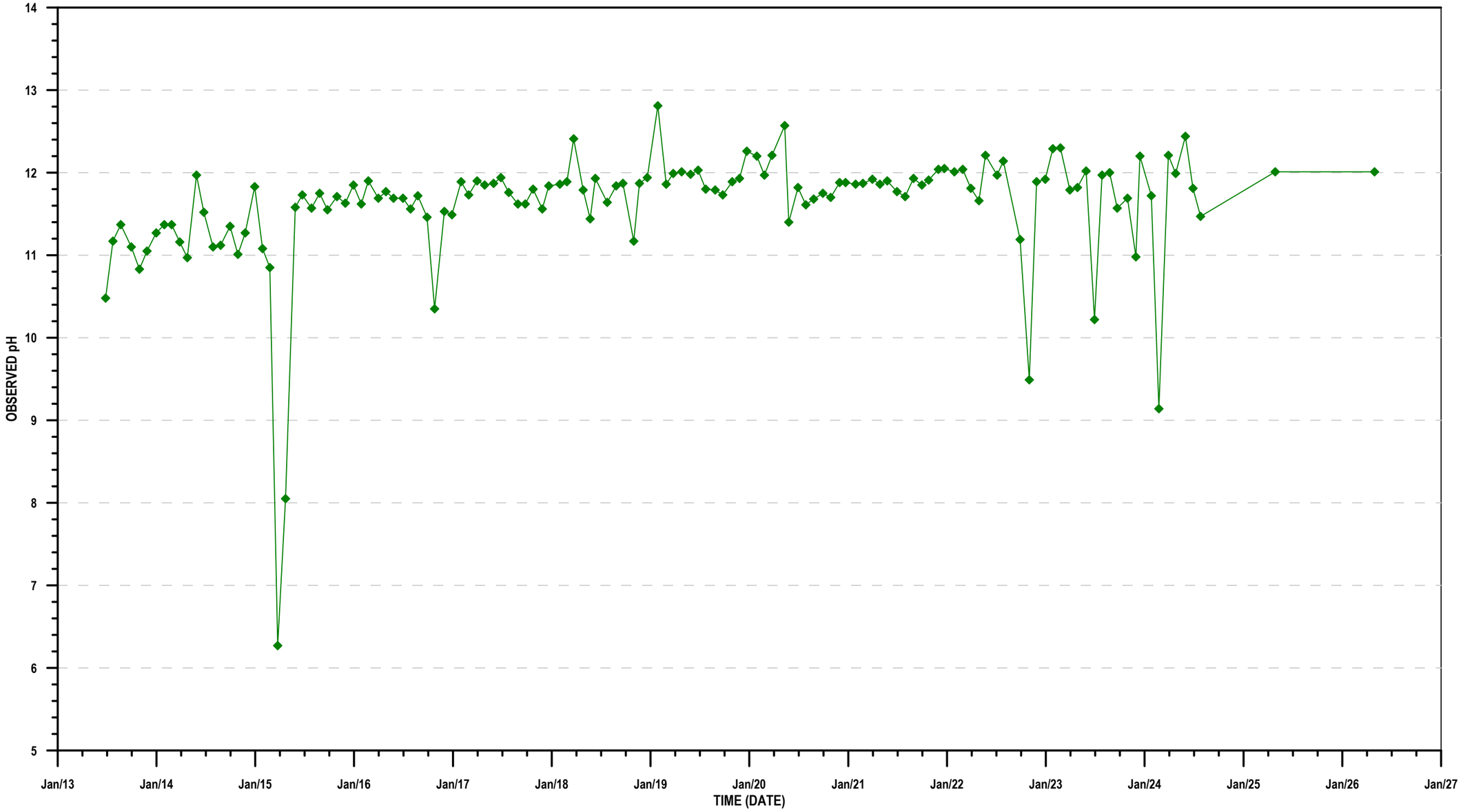
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT MW-7

Project No. **007987**
Date **June 2026**

FIGURE F.2

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\MW-7.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

MW-8

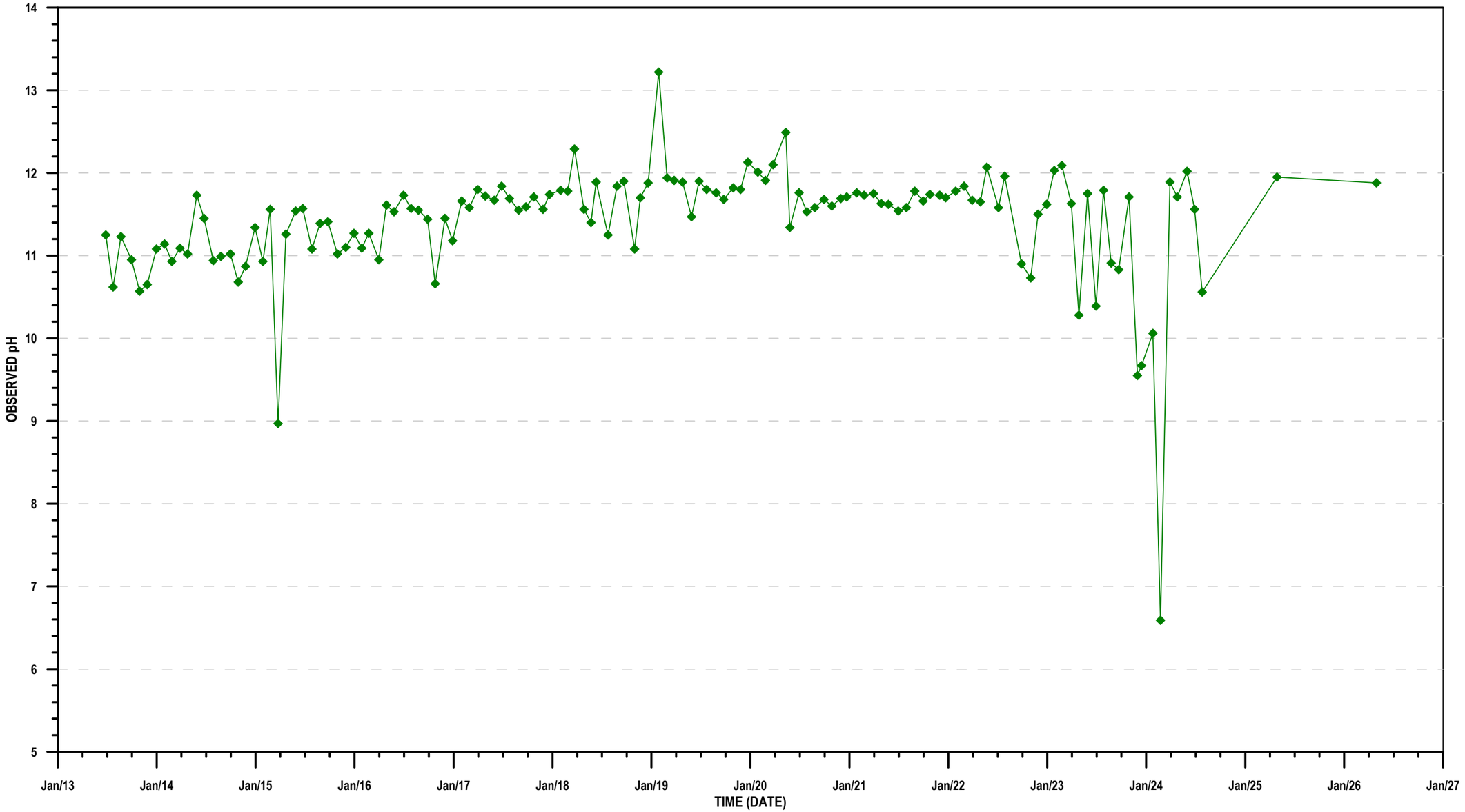
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT MW-8

Project No. **007987**
Date **June 2026**

FIGURE F.3

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\MW-8.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

MW-9

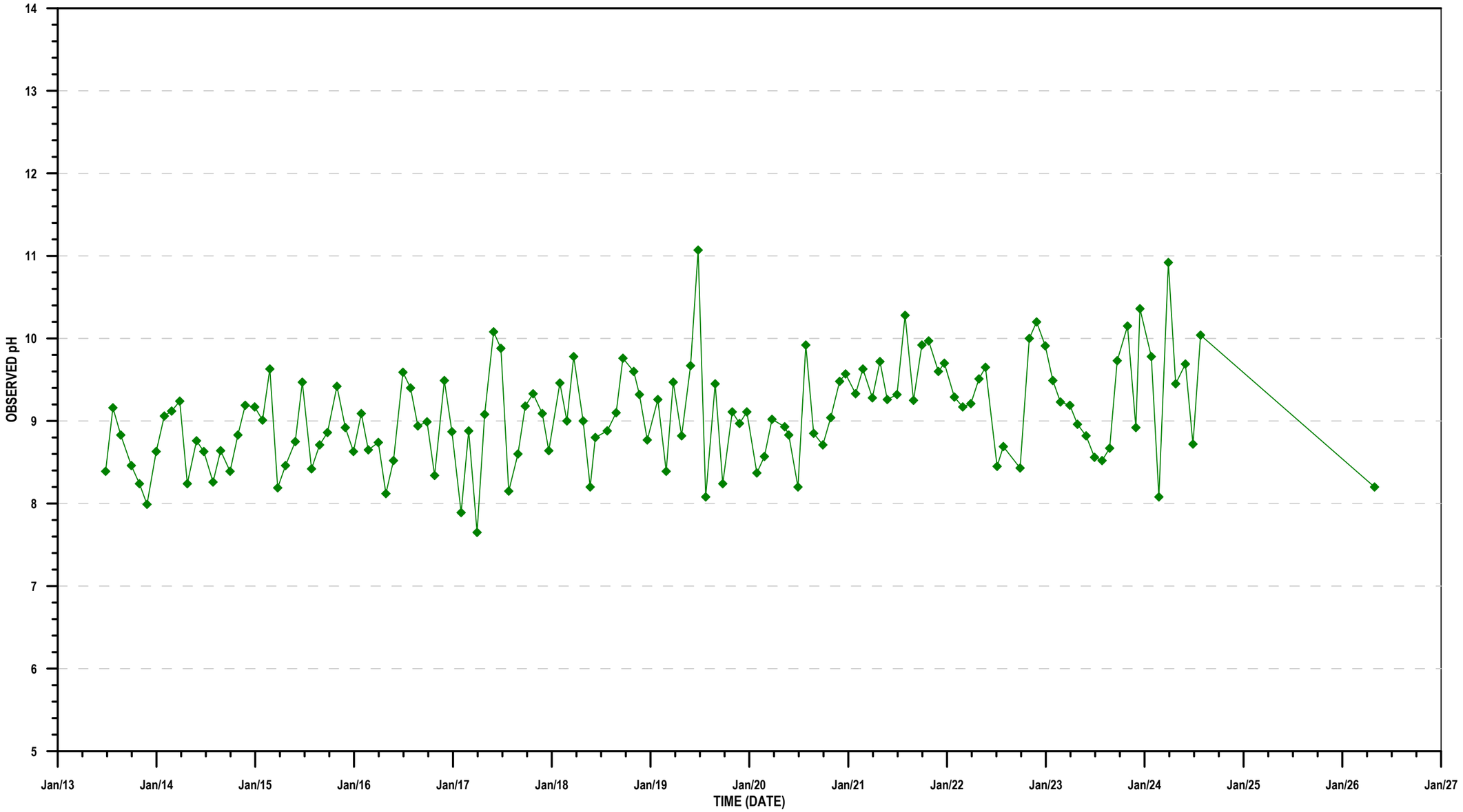
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT MW-9

Project No. **007987**
Date **June 2026**

FIGURE F.4

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\MW-9.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-1

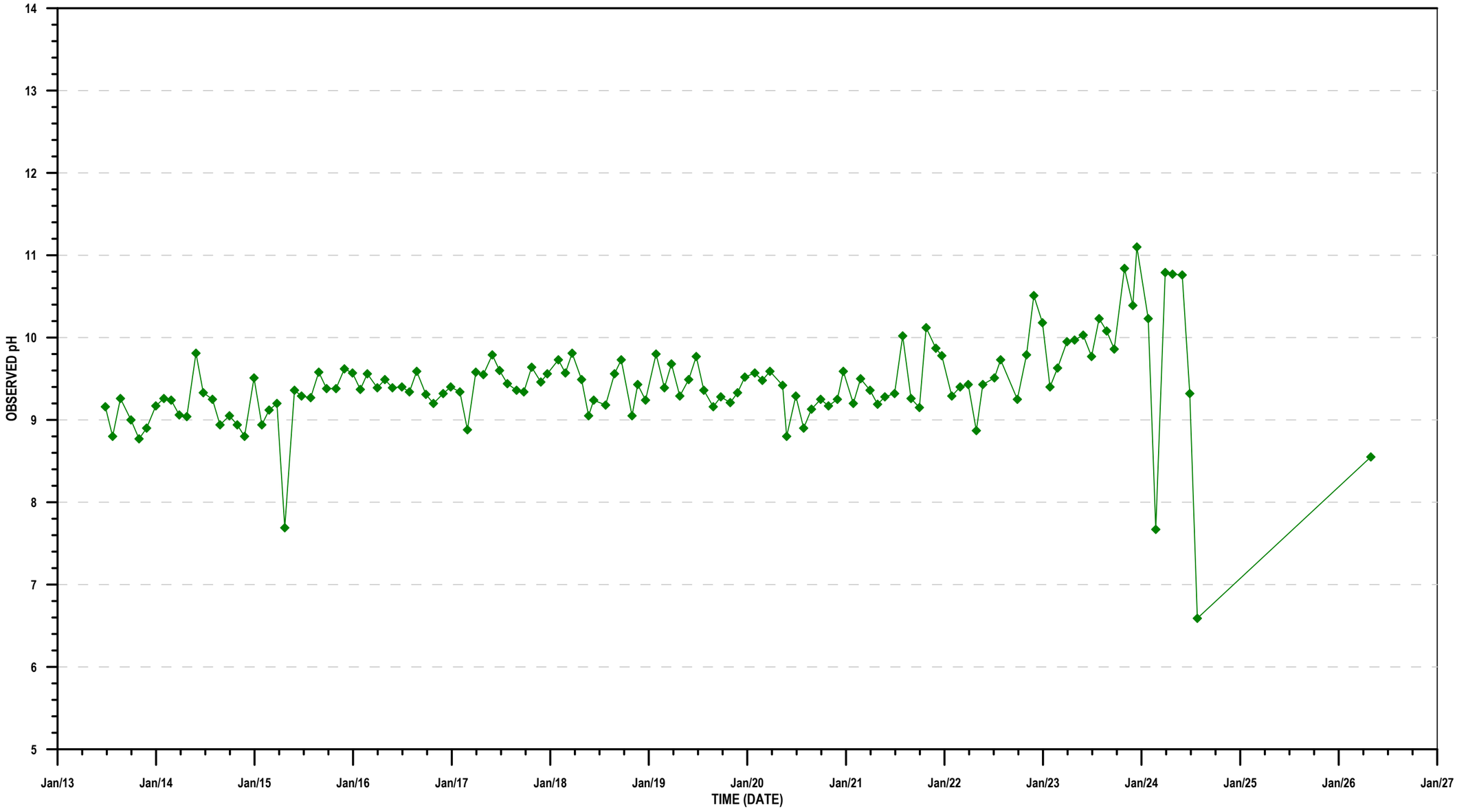
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-1

Project No. **007987**
Date **June 2026**

FIGURE F.5

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-1.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-2

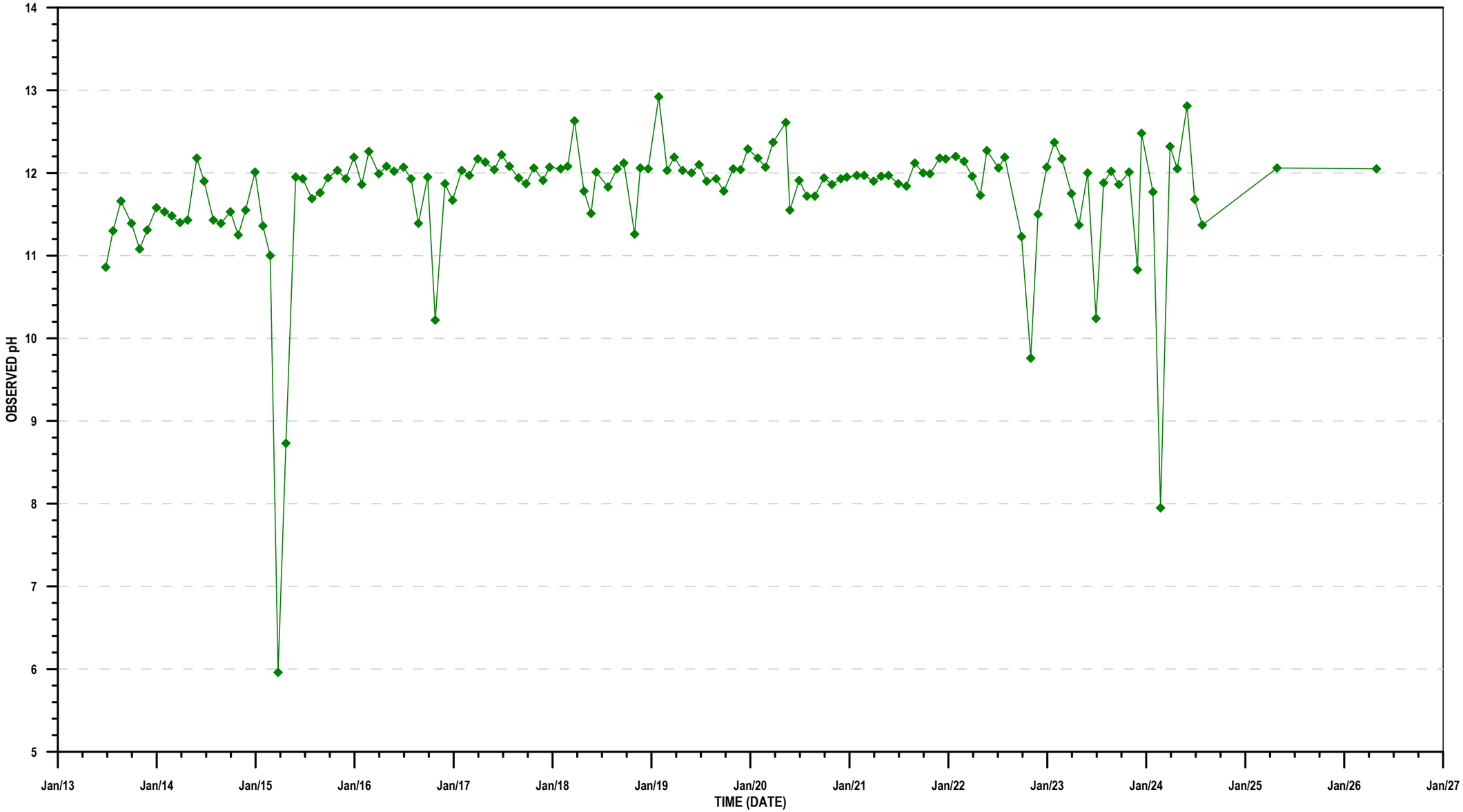
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-2

Project No. **007987**
Date **June 2026**

FIGURE F.6

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-2.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-3

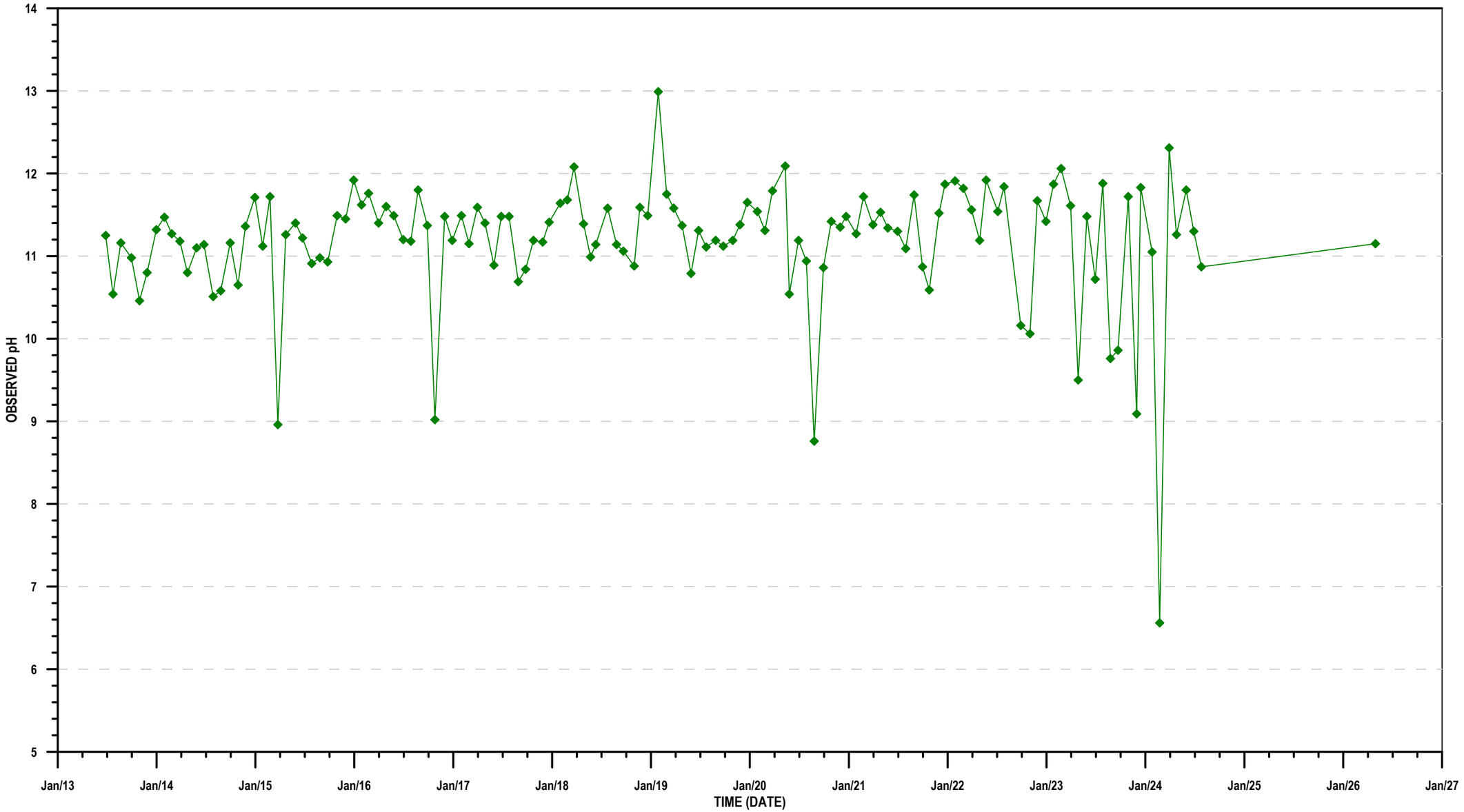
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-3

Project No. **007987**
Date **June 2026**

FIGURE F.7

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-3.grf
Plot Date: August 28 2026 4:08 PM



LEGEND

OGC-4

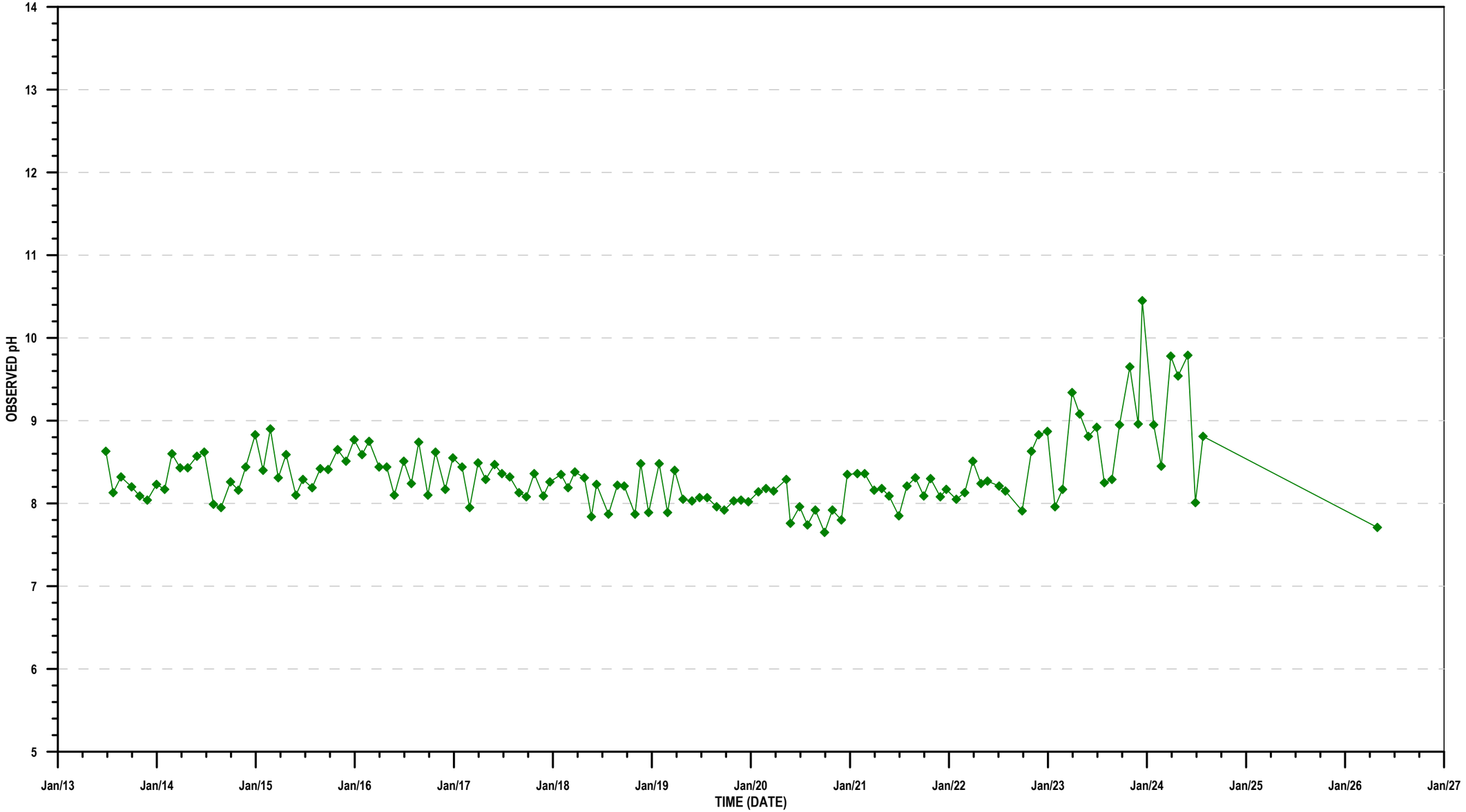
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-4

Project No. **007987**
Date **June 2026**

FIGURE F.8

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-4.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-5

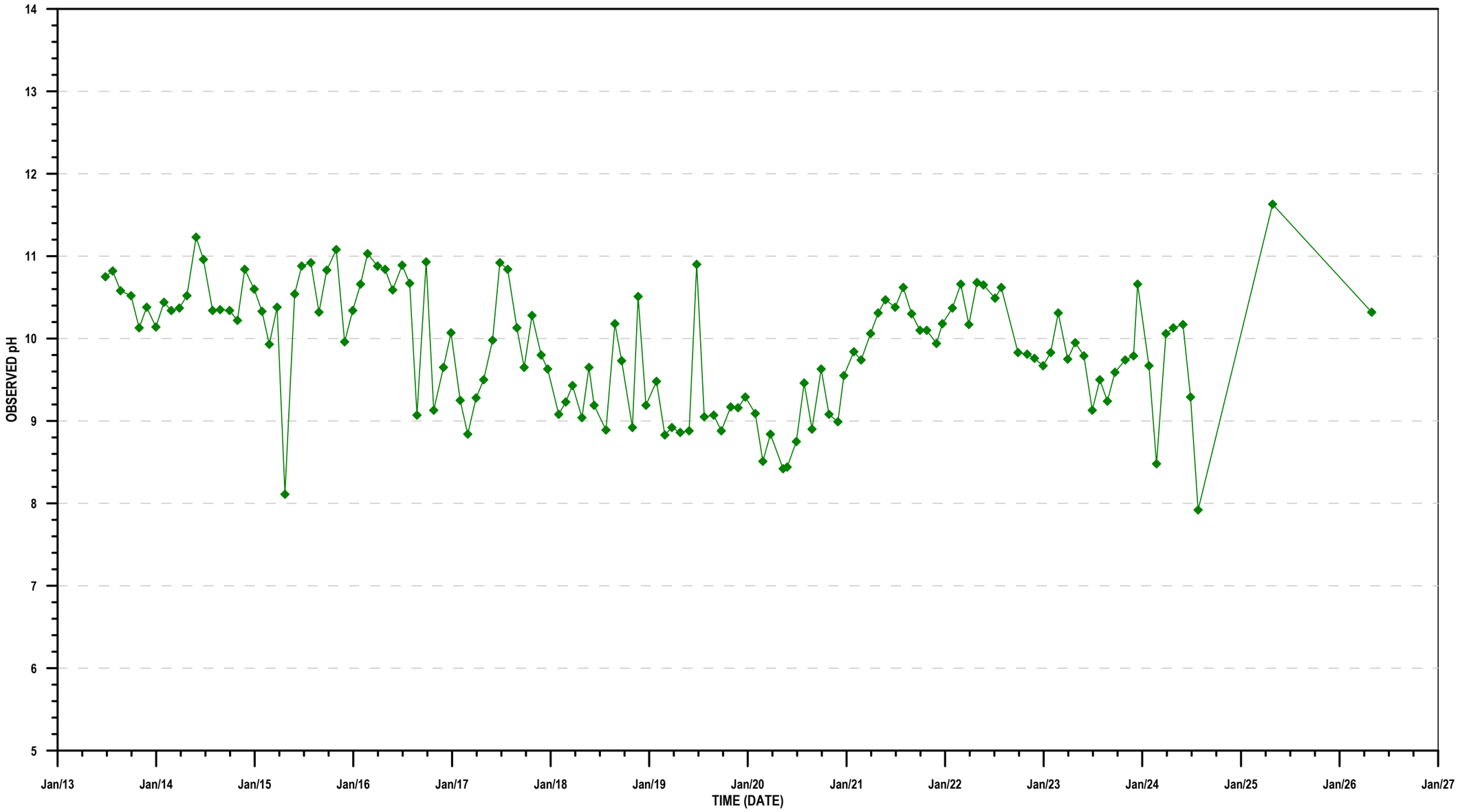
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-5

Project No. **007987**
Date **June 2026**

FIGURE F.9

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-5.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-6

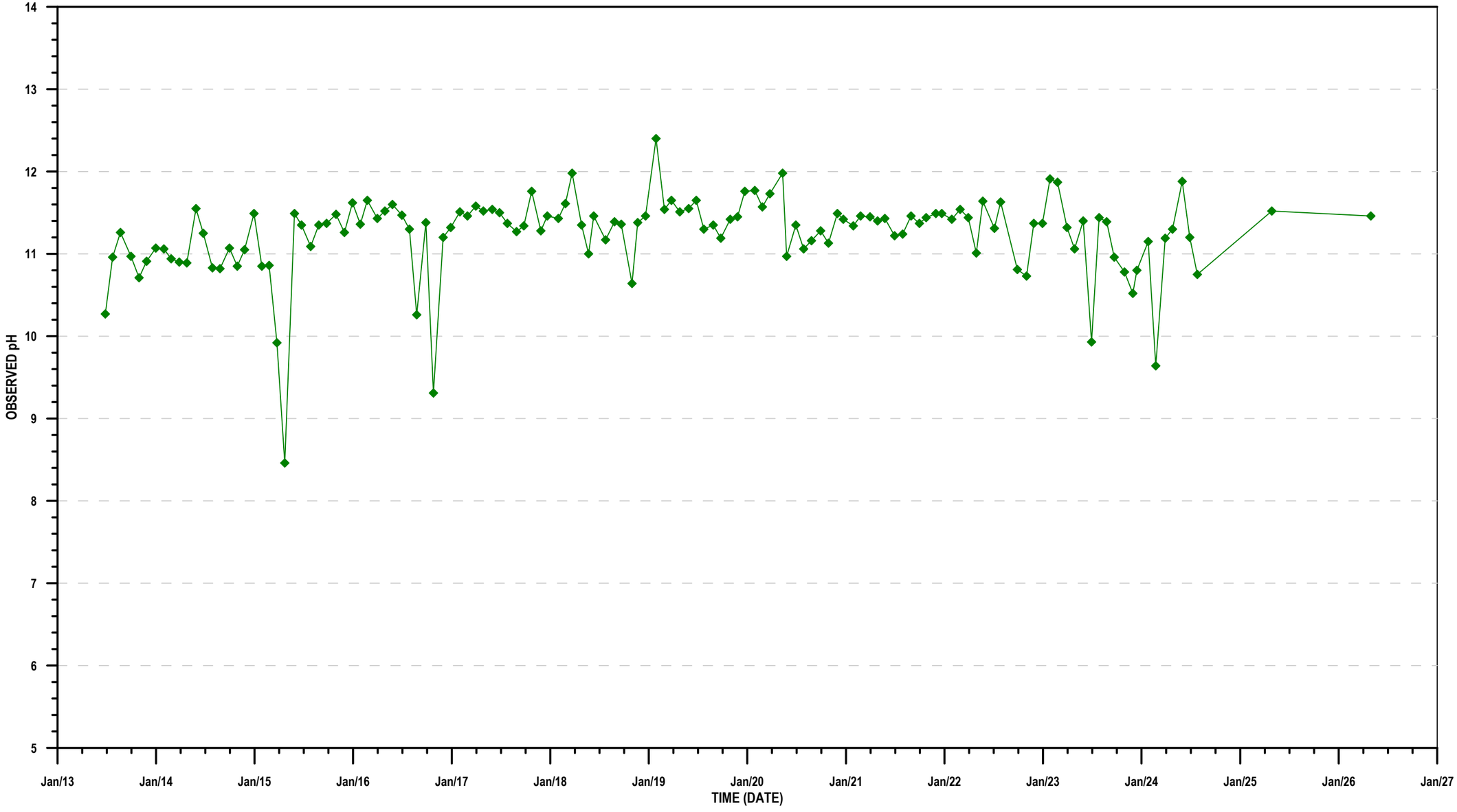
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-6

Project No. **007987**
Date **June 2026**

FIGURE F.10

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-6.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-7

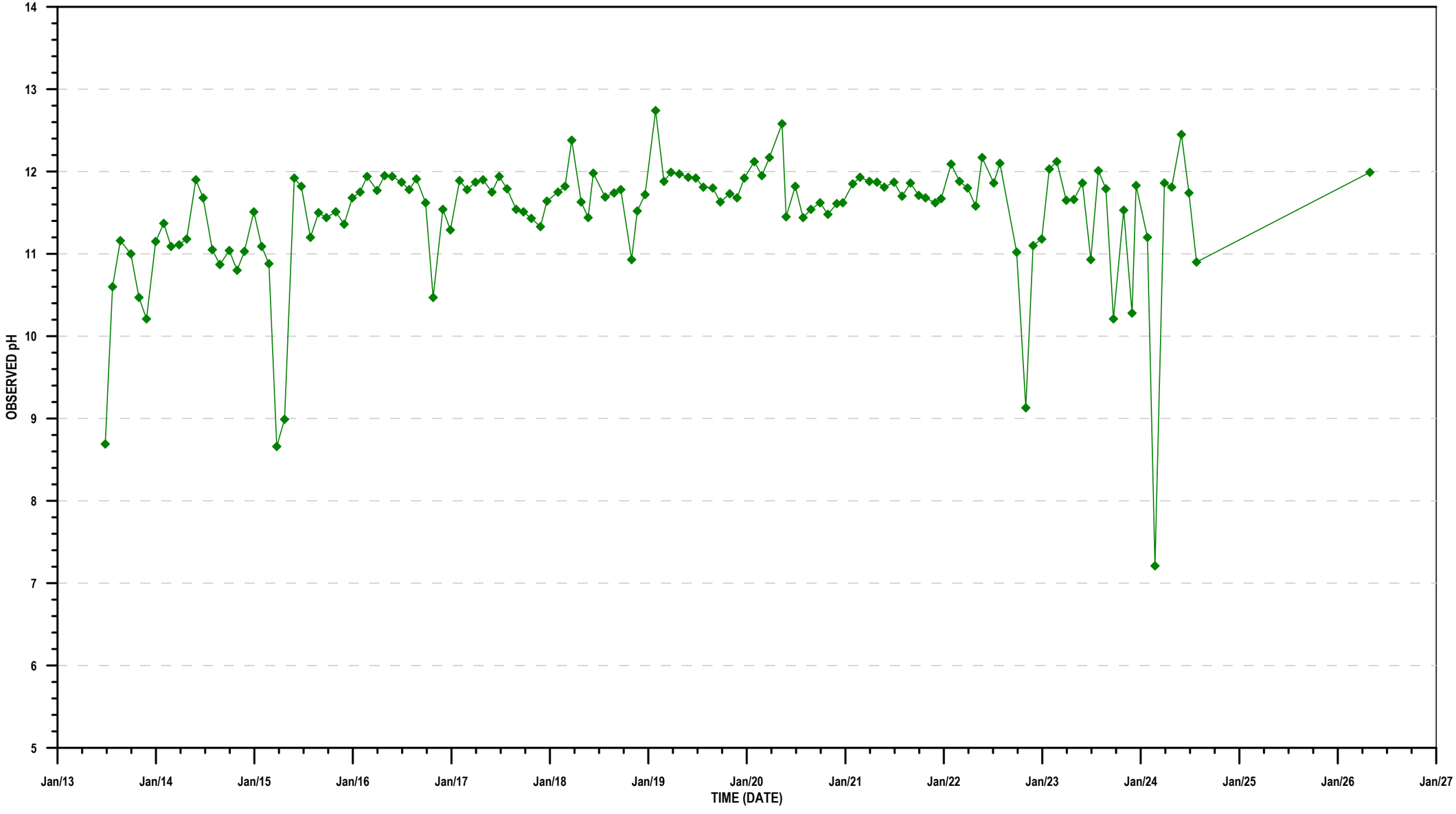
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-7

Project No. **007987**
Date **June 2026**

FIGURE F.11

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-7.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

OGC-8

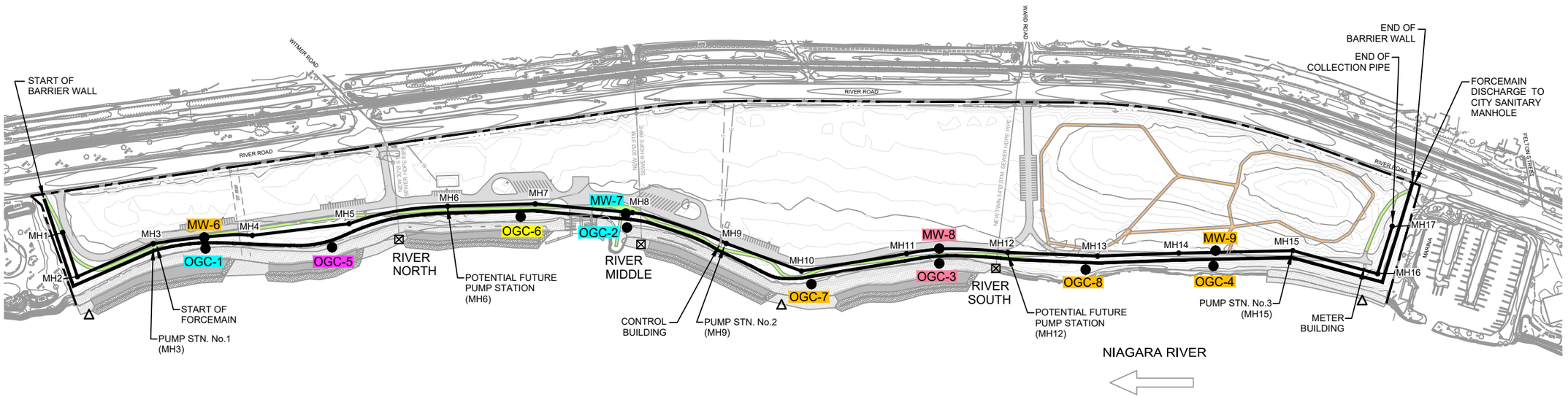
Gratwick Riverside Park
North Tonawanda, New York

OBSERVED pH VS TIME AT OGC-8

Project No. **007987**
Date **June 2026**

FIGURE F.12

\\ghdnet\ghd\CA\Waterloo\Projects\662\007987\Tech\Grapher\pH\2026\OGC-8.grf
Plot Date: June 04 2026 1:06 PM



LEGEND

- PROPERTY BOUNDARY
- BARRIER WALL
- MH11 — GROUNDWATER COLLECTION SYSTEM
- ● OGC-1 MW-1 — MONITORING WELL LOCATION
- ⊠ RIVER SOUTH — SURFACE WATER LEVEL MONITORING LOCATION
- △ — SURFACE WATER CHEMICAL MONITORING LOCATION (NO SAMPLING AFTER APRIL 2008)

- BETWEEN 7 AND <8
- BETWEEN 8 AND <9
- BETWEEN 9 AND <10
- BETWEEN 10 AND <11
- BETWEEN 11 AND <12
- BETWEEN 12 AND <13

0 200 400 ft
1" = 400 ft

GHD

GRATWICK - RIVERSIDE PARK SITE
NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

GEOMETRIC MEAN pH VALUES

Project No. **7987**
Date **June 2026**

FIGURE F.13

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D121_WA-055.dwg
Plot Date: 11 June 2026 12:42 PM

Appendix G

Monthly Inspection Logs

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 06/27/15 (MM DD YY)

INSPECTOR(S): D. Burr, G. Harkach, & J. Kawecki

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North Outfalls 8-10' wide strip of vegetation washed away. Mesh exposed. Vegetation/Driftwood buildup in front of River North outfall. 50' along shoreline near OGC-5 has exposed mesh.	
X		- bare areas		
X		- washouts		
X		- leachate seeps		
X		- length of vegetation		
X		- dead/dying vegetation		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/6/25 (MM DD YY)

INSPECTOR(S): D. Burr, G. Harlach, & J. Kaweski

Item	*Inspect For*	*Action Required*	*Comments*
2. Landfill Cap (continued)			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction	↓	
3. Wetlands (Area "F")			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands	↓	
4. Other Site Systems			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks	↓	
☒	- placement and condition of signs	↓	

FORM 17

Daniel Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/6/25 (MM DD YY)

INSPECTOR(S): D. Burr, G. Harlach, & J. Kawecki

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation/driftwood in front of River North Outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 07/25/25 (MM DD YY)

INSPECTOR(S): D. Burr

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
☒	Manholes	- cover on securely	None	
☒		- condition of cover	↓	
☒		- condition of inside of manhole		
☒		- flow conditions		
☒	Wet Wells	- cover on securely	None	
☒		- condition of cover	↓	
☒		- condition of inside of wet well		
2.	**Landfill Cap**			
☒	Vegetated Soil Cover	- erosion	50' on either side of Rivr Middle & Rivr North outfalls 8-10' wide Strip of vegetation washed away. Mesh exposed Vegetation/Driftwood buildup in front of Rivr North outfall. 50' along shoreline near OGC-5 has exposed mesh.	
☒		- bare areas		
☒		- washouts		
☒		- leachate seeps		
☒		- length of vegetation		
☒		- dead/dying vegetation		

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 01/25/25 (MM DD YY)

INSPECTOR(S): D Burr

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction	↓	
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands	↓	
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks	↓	
☒	- placement and condition of signs	↓	

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 07/25/25 (MM DD YY)

INSPECTOR(S): D. Burr

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Buildup of vegetation/driftwood in front of River North Outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	↓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 08 | 29 | 25 (MM DD YY)

INSPECTOR(S): D Burr & G. Hedach

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
☒	Manholes	- cover on securely	None	
☒		- condition of cover	↓	
☒		- condition of inside of manhole	↓	
☒		- flow conditions		
☒	Wet Wells	- cover on securely	None	
☒		- condition of cover	↓	
☒		- condition of inside of wet well		
2.	**Landfill Cap**			
☒	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North outfalls 8-10' wide strip of vegetation washed away. Mesh exposed.	
☒		- bare areas	Vegetation / Driftwood buildup in front of River North outfall, 50' along shoreline near OGC-5 has exposed mesh.	
☒		- washouts	Upper grass at North outfall has holes forming on mesh beginning to be visible.	
☒		- leachate seeps		
☒		- length of vegetation		
☒		- dead/dying vegetation		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10 | 8 | 25 (MM DD YY)

INSPECTOR(S): D. Burr & G. Herlach

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles		
☒	- obstruction		
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands		
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks		
☒	- placement and condition of signs		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/29/25 (MM DD YY)

INSPECTOR(S): D. Burr & G. Haslach

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation/Driftwood in front of River North outfall	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	✓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/9/19/25 (MM DD YY)

INSPECTOR(S): D. Burr & G. Haslach

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North outfalls	
X		- bare areas	8-10' wide strip of vegetation washed away. Mesh exposed	
X		- washouts	Vegetation/Driftwood build up in front of River North outfall	
X		- leachate seeps	50' along shoreline near DGC-5 has exposed mesh. ~~Hippos~~	
X		- length of vegetation		
X		- dead/dying vegetation		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 09/29/25 (MM DD YY)

INSPECTOR(S): D Burr & G. Harlach

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction	↓	
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands	↓	
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks	↓	
☒	- placement and condition of signs	↓	

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 09/29/15 (MM DD YY)

INSPECTOR(S): D. Burr & G. Herlach

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation/driftwood in front of River North outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoeline. Top ~2.5 ft of GGC-6 broken off due to corrosion.	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 1/02/9/25 (MM DD YY)

INSPECTOR(S): D. Burr

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North outfalls	
X		- bare areas	& 10' wide strip of vegetation	washed away. Mesh exposed
X		- washouts	Vegetation/Driftwood build up in	front of River North outfall
X		- leachate seeps	50' along shoreline near DGC-5 has	exposed mesh.
X		- length of vegetation	Several holes in upper grassy area near	North Outfall including exposed
X		- dead/dying vegetation	mesh. 1 hole in upper grassy area	near MH-6

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/29/25 (MM DD YY)

INSPECTOR(S): D. Burr

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction		
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands		
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks		
☒	- placement and condition of signs		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 1 0 2 9 2 5 (MM DD YY)

INSPECTOR(S): D. Baer

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation / driftwood in front of River North outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline. Top ~2.5 ft of OGC-6 broken off due to corrosion. OGC-3 casing has hole in bottom. Rodents using hole to access & build nests.	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Baer

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 1 1 2 6 2 5 (MM DD YY)

INSPECTOR(S): C. Harlach, D. Burr

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River-Middle & River-North outfalls	
X		- bare areas	8-10' wide strip of vegetation washed away. Mesh exposed	
X		- washouts	Vegetation/Driftwood build up in front of River North outfall.	
X		- leachate seeps	50' along shoreline near dec-5 has exposed mesh.	
X		- length of vegetation	Several holes in upper grassy area near North outfall including	
X		- dead/dying vegetation	exposed mesh. 1 Hole in upper grassy area near MH-6.	

FORM 17

Carol C Harlach

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 11/26/25 (MM DD YY)

INSPECTOR(S): C. Harlach, D. Burr

Item	Inspect For	Action Required	Comments
2. Landfill Cap (continued)			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction	↓	
3. Wetlands (Area "F")			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands	↓	
4. Other Site Systems			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks	↓	
☒	- placement and condition of signs	↓	

FORM 17

C. Harlach

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 11/26/25 (MM DD YY)

INSPECTOR(S): C. Harlach, D. Burr

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation/driftwood in front of River Mouth outfalls.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	↓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline. Top 25ft of DGC-6 broken off due to corrosion. DGC-3 casing has hole in bottom. Rodents using hole to access & build nests.	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 1 | 21 | 9 | 25 (MM DD YY)

INSPECTOR(S): D. Burr, G. Harlach

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
Y		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North Outfalls	
X		- bare areas	8-10' wide strip of vegetation washed away. Mesh exposed.	
X		- washouts	Vegetation/driftwood build up in front of River North Outfall	
X		- leachate seeps	50' along shoreline near OBC-5 has exposed mesh. 30' along shore	
X		- length of vegetation	near OBC-7 has exposed mesh. Several holes in upper grassy area	
X		- dead/dying vegetation	near North Outfall with exposed mesh.	

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 1 2 / 1 9 / 2 5 (MM DD YY)

INSPECTOR(S): D Burr, G. Harlach

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles	↓	
☒	- obstruction		
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands		
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks	↓	
☒	- placement and condition of signs		

FORM 17

David Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 11/19/25 (MM DD YY)

INSPECTOR(S): D. Burr, G. Harlach

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Buildup of vegetation/deadwood in front of River North outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	↓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline. Top 2.5 ft of OGC-5 broken off due to corrosion. OGC-3 casing has hole in bottom. Rodents using hole to access & build nests.	
X	Wells	- locks secure		
Y	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 0 2 0 3 2 6 (MM DD YY)

INSPECTOR(S): D. Burr & G. Herlach

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	50' on either side of River Middle & River North Outfalls	
X		- bare areas	8-10' wide strip of vegetation washed away. Mesh exposed.	
X		- washouts	Vegetation/Driftwood build up in front of River North Outfall. 50'	
X		- leachate seeps	along shoreline near OGC-5 has exposed mesh. 30' along shore	
X		- length of vegetation	near OGC-7 has exposed mesh. Several holes in upper grassy	
X		- dead/dying vegetation	area near North Outfall with exposed mesh.	

FORM 17

David Burr

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10|2|10|3|2|6| (MM DD YY)

INSPECTOR(S): D. Beer & G. Harlach

	Item	*Inspect For*	*Action Required*	*Comments*
2.	**Landfill Cap (continued)**			
X	Access Roads	- bare areas, dead/dying veg.	None	
X		- erosion	↓	
X		- potholes or puddles		
X		- obstruction		
3.	**Wetlands (Area "F")**			
X		- dead/dying vegetation	None	
X		- change in water budget	↓	
X		- general condition of wetlands		
4.	**Other Site Systems**			
X	Perimeter Fence	- integrity of fence	None	
X		- integrity of gates	↓	
X		- integrity of locks		
X		- placement and condition of signs		

FORM 17

Daniel Beer

CRA 7987 (24)

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10|2|0|3|2|6| (MM DD YY)

INSPECTOR(S): D. Burr & G. Harbach

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Build up of vegetation/driftwood in front of River North Outfall.	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	Mesh exposed along shoreline. Top 2.5 feet of OGC-5 rises broken off due to corrosion. OGC-3 casing has hole in bottom leaving access for rodents to access & build nests.	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

David C Burr

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 0 2 | 2 | 0 | 2 | 1 | 6 (MM DD YY)

INSPECTOR(S): Gerald Harlack

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	There have been no significant changes. All previously reported damages and or erosional effects remain the same.	
X		- bare areas		
X		- washouts		
X		- leachate seeps		
X		- length of vegetation		
X		- dead/dying vegetation		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 02/26/26 (MM DD YY)

INSPECTOR(S): C. Harlach

Item	*Inspect For*	*Action Required*	*Comments*
2. Landfill Cap (continued)			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	↓	
☒	- potholes or puddles		
☒	- obstruction		
3. Wetlands (Area "F")			
☒	- dead/dying vegetation	None	
☒	- change in water budget	↓	
☒	- general condition of wetlands		
4. Other Site Systems			
☒ Perimeter Fence	- integrity of fence	None	
☒	- integrity of gates	↓	
☒	- integrity of locks		
☒	- placement and condition of signs		

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/2/12 (MM DD YY)

INSPECTOR(S): C. Harlach

	Item	*Inspect For*	*Action Required*	*Comments*
	4. **Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact / damage	None	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: Wheatfield, New York

DATE: 08/27/26 (MM DD YY)

INSPECTOR(S): Gerald Herlach

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
X	Manholes	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of manhole		
X		- flow conditions		
X	Wet Wells	- cover on securely	None	
X		- condition of cover	↓	
X		- condition of inside of wet well		
2.	**Landfill Cap**			
X	Vegetated Soil Cover	- erosion	No Significant changes	
X		- bare areas		
X		- washouts		
X		- leachate seeps		
X		- length of vegetation		
X		- dead/dying vegetation		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: Wheatfield, New York

DATE: ___ ___ ___ ___ ___ ___ (MM DD YY)

INSPECTOR(S): C. Harlach

Item	*Inspect For*	*Action Required*	*Comments*
2. Landfill Cap (continued)			
☑ Access Roads	- bare areas, dead/dying veg.	None	
☑	- erosion	↓	
☑	- potholes or puddles	↓	
☑	- obstruction	↓	
3. Wetlands (Area "F")	- dead/dying vegetation	None	
☑	- change in water budget	↓	
☑	- general condition of wetlands	↓	
4. Other Site Systems			
☑ Perimeter Fence	- integrity of fence	None	
☑	- integrity of gates	↓	
☑	- integrity of locks	↓	
☑	- placement and condition of signs	↓	

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: Wheatfield, New York

DATE: ___ ___ ___ ___ ___ ___ (MM DD YY)

INSPECTOR(S): C. Halack

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	None	
X		- erosion	✓	
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	✓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact /damage	None	
X	Wells	- locks secure	✓	

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 01/30/16 (MM DD YY)

INSPECTOR(S): C. Hartack & B. Clarke

Item	*Inspect For*	*Action Required*	*Comments*
1. **Perimeter Collection System/Off-Site Forcemain**			
Manholes	- cover on securely	None	
	- condition of cover		
	- condition of inside of manhole		
	- flow conditions		
Wet Wells	- cover on securely		
	- condition of cover		
	- condition of inside of wet well		
2. **Landfill Cap**			
Vegetated Soil Cover	- erosion	No change	
	- bare areas		
	- washouts		
	- leachate seeps		
	- length of vegetation		
	- dead/dying vegetation		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 6 14 13 6 12 6 (MM DD YY)

INSPECTOR(S): C. Harlach & B. Clarke

Item	*Inspect For*	*Action Required*	*Comments*
2. **Landfill Cap (continued)**			
☒ Access Roads	- bare areas, dead/dying veg.	None	
☒	- erosion	✓	
☒	- potholes or puddles	✓	
☒	- obstruction	✓	
3. **Wetlands (Area "F")**			
☒	- dead/dying vegetation	✓	
☒	- change in water budget	✓	
☒	- general condition of wetlands	✓	
4. **Other Site Systems**			
☒ Perimeter Fence	- integrity of fence	NA	
☒	- integrity of gates	✓	
☒	- integrity of locks	✓	
☒	- placement and condition of signs	✓	

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 04/30/26 (MM DD YY)

INSPECTOR(S): C. Harland & B. Clarke

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
☒	Drainage Ditches/ Swale Outlets	- sediment build-up	None	
☒		- erosion		
☒		- condition of erosion protection		
☒		- flow obstructions		
☒		- dead/dying vegetation		
☒		- cable concrete/gabion mats and riprap		
☒	Culverts	- sediment build-up		
☒		- erosion		
☒		- condition of erosion protection		
☒		- flow obstructions		
☒	Gas Vents	- intact / damage	No change	
☒	Wells	- locks secure		
☒	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 10/20/16 (MM DD YY)

INSPECTOR(S): Gerald Harlach, Brett Clarke

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
☒	Manholes	- cover on securely	None	
		- condition of cover		
		- condition of inside of manhole		
		- flow conditions		
☒	Wet Wells	- cover on securely	None	
		- condition of cover		
		- condition of inside of wet well		
2.	**Landfill Cap**			
☒	Vegetated Soil Cover	- erosion	50' on either side of river middle & River North outfalls - 8-10' wide strip of vegetation washed away. Mesh exposed. Vegetation/Soil load build up in front of River North outfall. 50' along shoreline near OGC-5 has exposed mesh. 30' along shore near OGC-7 has exposed mesh. Several holes in upper grassy area near North outfall with exposed mesh.	
		- bare areas		
		- washouts		
		- leachate seeps		
		- length of vegetation		
		- dead/dying vegetation		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 6/5/2/7/2/16 (MM DD YY)

INSPECTOR(S): C. Harlach + B. Clarke

Item	*Inspect For*	*Action Required*	*Comments*
2. Landfill Cap (continued)			
☑ Access Roads	- bare areas, dead/dying veg.	None	
	- erosion	↓	
	- potholes or puddles	↓	
	- obstruction		
3. Wetlands (Area "F")			
☑	- dead/dying vegetation	None	
	- change in water budget	↓	
	- general condition of wetlands		
4. Other Site Systems			
☑ Perimeter Fence	- integrity of fence	None	
	- integrity of gates	↓	
	- integrity of locks	↓	
	- placement and condition of signs		

FORM 17

GRATWICK-RIVERSIDE PARK SITE
MONTHLY INSPECTION LOG

PROJECT NAME: Gratwick-Riverside Park Site

LOCATION: North Tonawanda, New York

DATE: 05 12 17 17 16 (MM DD YY)

INSPECTOR(S): C. Hardack & B. Clarke

	Item	Inspect For	Action Required	Comments
4.	**Other Site Systems (continued)**			
X	Drainage Ditches/ Swale Outlets	- sediment build-up	Buildup of vegetation/driftwood in front of River Mark	
X		- erosion		
X		- condition of erosion protection		
X		- flow obstructions		
X		- dead/dying vegetation		
X		- cable concrete/gabion mats and riprap		
X	Culverts	- sediment build-up	None	
X		- erosion	↓	
X		- condition of erosion protection		
X		- flow obstructions		
X	Gas Vents	- intact /damage	Top 2.5 feet of OGC-6 riser broken off due to corrosion. OGC-3 casing damaged near the bottom allowing rodents to build nests inside.	
X	Wells	- locks secure		
X	Shoreline Stabilization	- condition of gabion mats and riprap		

FORM 17

Appendix H

Monthly Inspection Photo Logs



June 2025 Photo 1 – Shore near MH-6 – Location 14



June 2025 Photo 2 – Shore near MH-9 – Location 10



June 2025 Photo 3 – Shore near MH-9 – Location 10



June 2025 Photo 4 – Shore near MW-6 – Location 17



June 2025 Photo 5 – Shore near MW-6 – Location 17



June 2025 Photo 6 – Shore near MW-9 – Location 4



June 2025 Photo 7 – Cover system near MH-2 – Location 19



July 2025 Photo 1 – Shore at River North – Location 15



July 2025 Photo 2 – Shore at River North – Location 15



July 2025 Photo 3 – Shore at River Middle – Location 11



July 2025 Photo 4 – Shore at River Middle – Location 11



July 2025 Photo 5 – Shore at River South – Location 7



July 2025 Photo 6 – Shore at River South – Location 7



July 2025 Photo 7 - Well OGC-3, showing damage at base.



July 2025 Photo 8 - Well OGC-3, showing damage at base.



July 2025 Photo 9 – Showing cover system near MW-6 – Location 17



August 2025 Photo 1 – Shore at River North – Location 15



August 2025 Photo 2 – Shore at River North – Location 15



August 2025 Photo 3 – Shore at River Middle – Location 11



August 2025 Photo 4 – Shore at River Middle – Location 11



August 2025 Photo 5 – Shore at River South– Location 7



August 2025 Photo 6 – Shore at River South– Location 7



August 2025 Photo 7 – Upper Grass near River North, showing small holes in grass



August 2025 Photo 8 – Showing cover system near MW-6 – Location 17



September 2025 Photo 1 – Shore at River North – Location 15



September 2025 Photo 2 – Shore at River North – Location 15



September 2025 Photo 3 – Shore at River Middle – Location 11



September 2025 Photo 4 – Shore at River Middle – Location 11



September 2025 Photo 5 – Shore at River South – Location 7



September 2025 Photo 6 – Shore at River South – Location 7



September 2025 Photo 7 – Well OGC-6, showing damage to well riser pipe



September 2025 Photo 8 – Well OGC-6, showing damage to well riser pipe



September 2025 Photo 9 – Showing cover system at OGC-5 – Location 16



October 2025 Photo 1 – Shore at MW-9 – Location 4



October 2025 Photo 2 – Shore at River North– Location 15



October 2025 Photo 3 – Shore at River North– Location 15



October 2025 Photo 4 – Shore at River Middle – Location 11



October 2025 Photo 5 – Shore at River Middle – Location 11



October 2025 Photo 6 – Shore at River Middle – Location 7



October 2025 Photo 7 – Showing cover system near OGC-7 – Location 9



November 2025 Photo 1 – Shore at River North – Location 15



November 2025 Photo 2 – Shore at River North – Location 15



November 2025 Photo 3 – Shore River Middle – Location 11



November 2025 Photo 4 – Shore River Middle – Location 11



November 2025 Photo 5 – Bare grass near River North – Location 15



November 2025 Photo 6 – Shore at River South – Location 7



November 2025 Photo 7 – Shore at River South – Location 7



November 2025 Photo 8 – Showing cover system at OGC-6 – Location 13



December 2025 Photo 1 – Shore at River North – Location 15



December 2025 Photo 1 – Shore at River North – Location 15



December 2025 Photo 3 – River North – Location 15, showing small holes in grass cover



December 2025 Photo 4 – Shore at River Middle – Location 11



December 2025 Photo 5 – Shore at River Middle – Location 11



December 2025 Photo 6 – Shore at River South – Location 7



December 2025 Photo 7 – Shore at River South – Location 7



December 2025 Photo 8 – Shore near OGC-7 – Location 9



December 2025 Photo 9 – Showing cover system near OGC-7 – Location 9



January 2026 Photo 1 – Shore at River North – Location 15



January 2026 Photo 2 – Shore at River Middle – Location 11



January 2026 Photo 3 – Shore at River South – Location 7



January 2026 Photo 4 – Shore near MW-9 – Location 4



January 2026 Photo 5 – Showing cover system near MW-6 – Location 17



January 2026 Photo 6 – Showing cover system near OGC-7 – Location 9



February 2026 Photo 1 – Shore River North – Location 15



February 2026 Photo 2 – Shore River Middle – Location 11



February 2026 Photo 3 – MW-9 and OGC-4 – Location 3



February 2026 Photo 4 – OGC-1 – Location 17



February 2026 Photo 5 – Showing cover system near OGC-8 – Location 6



February 2026 Photo 6 – Showing cover system near MW-7 – Location 12



March 2026 Photo 1 – River North – Location 15



March 2026 Photo 2 – River Middle – Location 11



March 2026 Photo 3 – River South – Location 7



March 2026 Photo 4 – Showing cover system at MW-9 – Location 3



March 2026 Photo 5 – Showing cover system at MW-7 – Location 12



March 2026 Photo 6 – Showing cover system at OGC-8 – Location 6



April 2026 Photo 1 – Shore at River Middle – Location 11



April 2026 Photo 2 – Shore at River Middle – Location 11



April 2026 Photo 3 – Shore at River South – Location 7



April 2026 Photo 4 – Shore near OGC-2 – Location 12



April 2026 Photo 5 – Shore near OGC-5 – Location 16



April 2026 Photo 6 – Shore near OGC-8 – Location 6



April 2026 Photo 7 – Showing cover system near MW-6 – Location 8



May 2026 Photo 1 – Shore at River North – Location 15



May 2026 Photo 2 – Shore at River Middle – Location 11



May 2026 Photo 3 – Shore at River South – Location 7



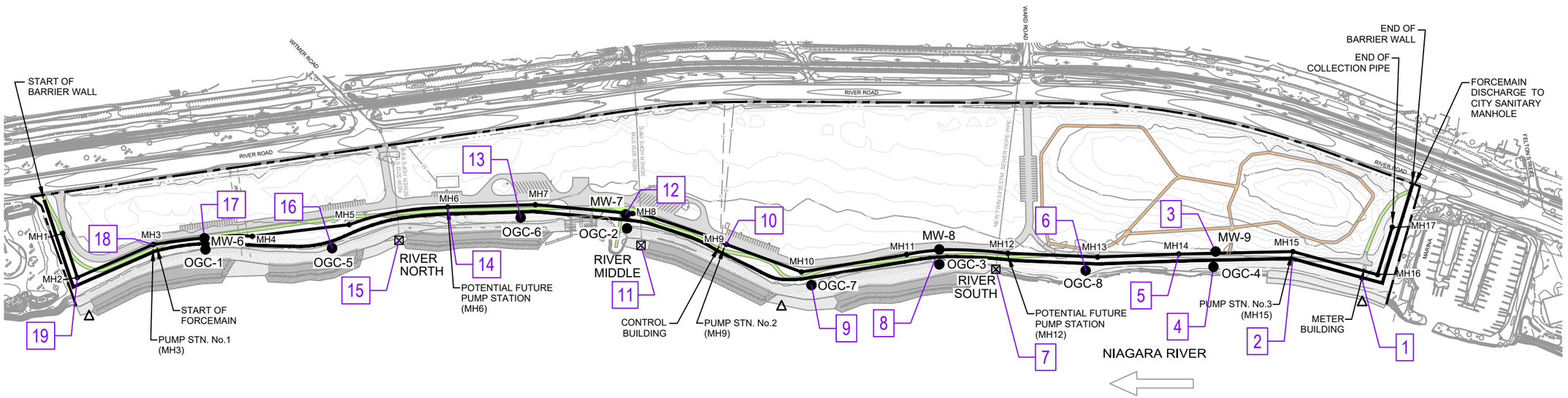
May 2026 Photo 4 – OGC-6, showing damage to riser pipe – Location 13



May 2026 Photo 5 – MH9, showing high water level – Location 10



May 2026 Photo 5 – Showing cover system at OGC-2– Location 12



LEGEND

- PROPERTY BOUNDARY
- BARRIER WALL
- MH11 — GROUNDWATER COLLECTION SYSTEM
- ● OGC-1 MW-1 — MONITORING WELL LOCATION
- ⊠ RIVER SOUTH — SURFACE WATER LEVEL MONITORING LOCATION
- △ — SURFACE WATER CHEMICAL MONITORING LOCATION (NO SAMPLING AFTER APRIL 2008)
- 1 — PHOTO LOCATION

0 200 400 ft

1" = 400 ft

GHD

GRATWICK - RIVERSIDE PARK SITE
NORTH TONAWANDA, NEW YORK
OPERATION AND MONITORING REPORT
- JUNE 2025 TO MAY 2026

PHOTO LOG PHOTO LOCATIONS

Project No. **7987**
Date **June 2026**

FIGURE H.1

Filename: C:\ADSK\ACCDocs\GHD Services Pty Ltd\11230862-Enviro Projs\Project Files\007987\01 WIP\Env\Figures\RPT055\007987-GHD-00-00-RPT-EN-D122_WA-055.dwg
Plot Date: 16 June 2026 2:30 PM

