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Dufferin Aggregates Paris Pit – 2025 Combined Annual Monitoring Report

Please find enclosed the Combined Annual Monitoring Report for the Dufferin Aggregates Paris Pit for the 2025 calendar year, required by the ARA Licence No. 5601, Amended PTTW No. 7481-C4BQTA and ECA (ISW) No. 0302-ALCK5W. Dufferin Aggregates is a CRH Company.

Hard copies of the report can be provided upon request.

Please do not hesitate to contact me if you have any questions or comments.

Yours sincerely,

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2025 Combined Annual Monitoring Report

Dufferin Aggregates Paris Pit

Dufferin Aggregates, a CRH Company

31 March 2026



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1. Introduction

GHD was retained by Dufferin Aggregates, a CRH Company (Dufferin), to complete the 2025 Combined Annual Monitoring Report (AMR) for the Dufferin Paris Pit for the period between January 1 and December 31, 2025. This monitoring report was completed pursuant to and combines the associated monitoring results of:

- Ministry of Natural Resources (MNR) Aggregate Resources Act (ARA) Licence No. 5601
- Amended Permit to Take Water (PTTW) No. 7481-C4BQTA issued by the Ontario Ministry of the Environment, Conservation and Parks (MECP) on August 13, 2021
- Amended Environmental Compliance Approval (ECA) No. 3994-CCDR8L issued by the MECP on March 14, 2022

The Dufferin Paris Pit (Site) is located at 716 Watts Pond Road on Part Lot 27 in Concession 2, Part Lot 26 in Concession 3, and Part of Subdivision Lots 1, 2, and 3 in Concession 2 West of the Grand River and Part of the Canadian National Railway (CNR), in the County of Brant, Ontario. The Site location is presented on Figure 1.1. An area of 249 hectares (ha) is licensed under the ARA (Licence No. 5601), 207 ha of which are approved for extraction. A map of the Site and surrounding lands is presented on Figure 1.2.

The purpose of this 2025 Combined Annual Monitoring Report is to document the results of the 2025 monitoring program specified in the ARA Licence, PTTW, and ECA. Copies of the PTTW and ECA are provided in Appendix A and Appendix B, respectively.

The 2025 monitoring program and related activities included the following:

- Hydraulic monitoring (groundwater levels and surface water levels)
- Additional hydraulic monitoring (weekly events) in April/May and June to December 2025
- Water quality monitoring (groundwater, surface water, and recirculation cell)
- Measurement of water taking amounts

The Site-wide monitoring locations are presented on Figure 1.3, the monitoring well completion details are provided in Table 1.1, and the 2025 monitoring program is summarized in Table 1.2.

2. Background

2.1 Geological/Hydrogeological Setting

The geological and hydrogeological framework for the Site has been characterized through evaluation of stratigraphic data from historical test pits, boreholes, and monitoring wells and reported in the Ontario Water Resources Act (OWRA) S34 Permit to Take Water Application and Supporting Hydrologic and Hydrogeologic Study for the original PTTW (CRA, 2013), the previous PTTW Amendment Application (GHD, 2021a), the Below Water Table Hydrogeological Impact Assessment and Level 2 Water Report (GHD, 2022b), Category 1 Permit-To-Take-Water Renewal Application Supporting Information Report (GHD, 2025b) and has been routinely reviewed, updated and reported through Annual Monitoring Reports submitted to MECP, MNR, the County of Brant, and made publicly available through the CRH website.

The historical test pit, borehole and monitoring well stratigraphic data have been used to prepare geological/hydrogeological cross-sections at the cross-section locations illustrated on Figure 2.1. The cross sections are presented on Figures 2.2 and 2.3 and present the historical maximum observed water table as well as the current extraction extents.

As shown on Figures 2.2 and 2.3, sand and gravel deposits of outwash origin are underlain by fine-grained (silt and clay) glacial till. The glacial till deposits are part of the regionally-extensive Port Stanley Till. Bedrock underlying the glacial till deposits was penetrated by a limited number of boreholes or monitoring wells within the Site. Regionally, bedrock is comprised of shale and bedded dolostone of the Salina Formation.

The outwash sand and gravel deposits form the upper unconfined aquifer. Within the Site, these deposits range in saturated thickness from approximately 7.5 metres (m) in the western portion of the Site to 0 m immediately northwest of the existing ponds (BH4-12) and in the central-eastern part of the Site. In this area, the upper part of the Port Stanley Till has a prominent northeast to southwest trending ridge defined by the approximately 248 m above mean sea level (AMSL) top of till elevation at BH4-12 (GHD, 2021c). This ridge is located northwest of the existing natural ponds and restricts groundwater flow to and from the existing natural ponds under seasonal low groundwater table and surface water conditions. Beyond the Site, the saturated thickness of the outwash sand and gravel deposits are approximately 10 to 20 m at the Gilbert Wellfield (west of the Site) and up to 34 m at the Telfer Wellfield (east of the Site).

Based on additional characterization in 2023 (GHD, 2024) and subsequent investigations (GHD, 2025b), shallow till present at BH4-12 has been identified to extend as a ridge in a northeast to southwest orientation that roughly corresponds with the base of the local topographic relief on-Site. A second till ridge has been identified north of Watts Pond Road corresponding with the local topographic relief but has not been fully characterized at this stage. The approximate location and extent of these features is presented on Figure 2.1.

The presence of these subsurface till ridges define the flow of groundwater on-Site, forming three, largely separate, water table regions within the upper unconfined aquifers on-Site; the Upper, Middle and Lower regions that are separated by subsurface northeast to southwest trending till ridges.

Groundwater within the Upper region flows from northeast to southwest and the bulk of this region is largely located northwest of the Site. The till band in this area is estimated to peak around 257 m AMSL. This region is outside of the main supporting catchment for the on-Site water taking under the PTTW, although some overtopping of the ridge may contribute flow to the Middle region. It is possible, perhaps likely, that groundwater from this Upper region supports seeps discharging to the west side of Gilbert Creek, west of the Site.

Groundwater within the Middle region flows from northeast to southwest between the upper and lower till bands. The water source for the middle aquifer appears to be largely direct infiltration and leakage across and overtopping of the upper till ridge. Groundwater under the Site operations area flows towards the Source Pond. Some of the groundwater then overtops the lower till ridge resulting in the seeps between the Source Pond and SW1B. These seeps provide inflow support for Wetland SW1B in addition to direct precipitation and runoff. Excess water within SW1B flows north where it re-enters the groundwater flow system in the Lower region as infiltration in the vicinity of MW2-12.

Groundwater within the Lower region generally flows east towards the Grand River and the Telfer Wellfield. The water source for the Lower region appears to be from direct infiltration, leakage across the till ridge and water overtopping the subsurface till ridge during high groundwater conditions. As operations progress on-Site, Dufferin continues to evaluate the water table as it relates to ARA extraction limits and water table off-Sets.

2.2 ARA Licence

The Paris Pit was approved by the Province of Ontario for extraction of aggregates (sand and gravel) in 1974 under the provincial Pits and Quarries Control Act, 1971. In 1990, the ARA replaced the Pits and Quarries Control Act and the Site Plans were revised to reflect the necessary changes needed to meet the ARA Provincial Standards at that time. Subsequently, the Site Plans have been further updated and approved by the MNR from time to time. The most recent Site Plan Amendment was approved by MNR on January 13, 2023.

ARA Licence Requirements

The 2025 monitoring requirements for the ARA Licence No. 5601 are described below as specified in the Below Water Table Hydrogeological Impact Assessment and Level 2 Water Report (GHD, 2022b), which presented the technical requirements for the amendment which was issued on January 13, 2023:

- *Hydraulic (water level) monitoring three times per year at groundwater and surface water locations set for the purpose of the licence. Recording of water levels by transducers and data loggers at a regular frequency.*
 - Hydraulic monitoring was completed in May, August, and December 2025. All groundwater and surface water monitoring locations are equipped with dataloggers.
- *Water quality sampling three times per year from groundwater monitoring locations and surface water locations set for the purpose of the licence. The groundwater samples are analyzed for general chemistry and dissolved metals and the surface water samples are analyzed for general chemistry and total metals.*
 - Groundwater and surface water quality monitoring was completed in May, August, and December 2025. The groundwater samples were analyzed for general chemistry and dissolved metals, and the surface water samples were analyzed for general chemistry and total metals.
- *Submission of an annual monitoring report to the MNR and the MECP.*
 - The 2025 Combined Annual Monitoring Report will be submitted to the MNR and MECP before March 31, 2026.

2.3 Permit to Take Water (PTTW)

In 2025 the Site operated under Amended PTTW No. 7481-C4BQTA dated August 13, 2021. A copy of the PTTW is provided in Appendix A. PTTW No. 7481-C4BQTA expired on October 29, 2025. CRH submitted a Category 1 Permit-To-Take-Water Renewal Application on July 25, 2025 which, as of December 31, 2025 is still under review by the MECP. GHD has confirmed with MECP that in accordance with Section 34.1(6) of the Ontario Water Resources Act, because the renewal application was submitted at least 90 days in advance, the existing permit will remain valid beyond its expiry date until a decision is made by the Director on the renewal. As of December 31, 2025, Dufferin continues to operate in accordance with the conditions of PTTW No. 7481-C4BQTA, as outlined below.

The PTTW specifies terms and conditions regarding water taking limits, monitoring, reporting, and the response to well interference complaints, should they occur. These collected data are to be presented and interpreted in an annual report to be submitted to the MECP by March 31 for the 12-month period ending December 31 of each year.

Water Taking Limits

Table A of the PTTW allows water taking from the Source Pond (see Figure 1.2) for the purpose of aggregate washing, dust suppression, and vegetation watering at a flow rate not to exceed 10,000 L/min, for a maximum of 12 hours per day, to a maximum of 7,200,000 litres per day (L/day) for a total of 30 days per annum for the purpose of refilling the settling and recirculation cells (see Figure 1.2) after removal of accumulated sediment from these cells or repairing the liner in the recirculation cell. For the remaining 200 days, the water taking shall be at a rate of no more than 1,400 L/min for 12 hours per day.

- “Condition 3.6: Water takings only occur between February 15 and December 31 of each year.”
 - Water takings occurred between March 13 and December 1 in 2025 (see Section 5.0).
- “Condition 3.7: If water is pumped from the Source Pond at lower than the maximum permitted rates, the saved water can be pumped in other days exceeding the total number of 230 days, provided the takings are between February 15 and December 31, the rate of taking shall not exceed 1,400 L/min (1,008,000 L/day), and the

cumulative volume pumped in all days between February 15 and December 31 shall not exceed 417,600,000 litres annually.”

- Water takings occurred between March 13 and December 1, 2025 for a total of 219 days and a cumulative total of 360,862,182 litres. There were no exceedances of the PTTW maximum permitted rates in 2025 (see Section 5.0).
- Pumping equipment is equipped with a timed shutoff valve to prevent water taking greater than 12-hours per day.

Monitoring and Reporting Requirements

- “Condition 4.1: Record the daily water takings and rates.”
 - Water takings and rates were recorded daily for 2025 (see Section 5.0).
- “Condition 4.2 (a,b,c,d): Monitor groundwater levels in MW1-12, MW3-16, BH88-5-I and BH88-5-II with hourly dataloggers.”
 - The groundwater levels in MW1-12, MW3-16, BH88-5-I, and BH88-5-II were equipped with hourly programmed dataloggers that were generally monitored monthly, and on a weekly frequency from April to May and from July to December 2025. Water level data are presented in Appendix C.
- “Condition 4.3: Monitor surface water levels in SW1A, SW1B and multi-level piezometers (MP1-S and MP2-S) with hourly dataloggers and calculation of vertical hydraulic gradients at the multi-level piezometers.”
 - The surface water levels in SW1A, SW1B and multi-level piezometers (MP1S/MP2S) were equipped with hourly programmed dataloggers and monitored in 2025. In addition, a new staff gauge (SG2B) was installed on June 4, 2021 to monitor the open water portion of the SW1B pond. Water level data are presented in Appendix C.
 - Vertical hydraulic gradients at the multi-level piezometers are presented in Section 4.4 and water elevations in each of MP1-S and MP2-S are provided graphically in Appendix C (Figure C.21).
- “Condition 4.4: Submit a Combined Annual Monitoring Report to MECP, Section 34.1 Director and the County of Brant.”
 - The groundwater levels, surface water levels, and other data collected from the Site are included in the 2025 Combined Annual Monitoring Report. The groundwater and surface water levels collected through the year are compared with the simulated water level changes in Section 4.3. The 2025 Combined Annual Monitoring Report will be provided to the MECP, Section 34.1 Director and the County of Brant by March 31, 2026.
- “Condition 4.5: Make the annual report available to the Community Advisory Panel and publicly by posting it on CRH's website.”
 - Dufferin will make the 2025 Combined Annual Monitoring Report available to the Community Advisory Panel and publicly by posting it on CRH's website by March 31, 2026.
- “Condition 4.6: All permit renewals and amendments (other than administrative amendments) will be accompanied by a hydrogeological assessment report that presents and discusses the data collected in Conditions 4.1, 4.2 and 4.3 and will be signed by a qualified person.”
 - The PTTW renewal application was submitted on July 25, 2025, and was accompanied by a hydrogeological assessment, as summarized in Section 2.1.1 (GHD, 2025b).
- “Condition 4.7: Continue to implement the Trigger Mechanism and Contingency Plan for both groundwater and surface water. This Plan will be reviewed and updated with approval by the MECP as necessary and at minimum every 2 years. This review can be completed as part of the Combined Annual Monitoring report.”
 - The Trigger Mechanism and Contingency Plan was implemented at the Site for both groundwater and surface water in 2025. Details of the monitoring are described in Section 4.

All of the PTTW monitoring and reporting requirements have been met.

2.4 Environmental Compliance Approval (ECA)

The Site operates under Amended ECA No. 3994-CCDR8L dated March 14, 2022. The ECA is provided in Appendix B. Amended ECA No. 3994-CCDR8L specifies the terms and conditions regarding monitoring and reporting at the Site. These collected data are to be presented and interpreted in an annual report to be submitted to the MECP by March 31 for the 12-month period ending December 31 of each year.

Monitoring & Reporting Requirements

The following provides a summary of ECA No. 3994-CCDR8L monitoring and reporting requirements and how they are addressed:

- “Condition 3.1 and 3.2: Develop and implement an operations manual prior to the construction, use and operation of the Works.”
 - The Operations Manual was developed and implemented prior to the construction, use, and operation of the Works. It was first issued December 28, 2015 and is updated periodically to reflect operational changes.
- “Condition 3.3: Develop a seal at the bottom of the settling pond (cells and recirculation cell).”
 - The seal at the bottom of the settling pond (settling cells and recirculation cell) was initiated in September 2017 and is now completed. The recirculation cell was lined in November 2019. Additional information is provided in Section 3.2 and 3.3.
- “Condition 4.1: Groundwater monitoring from seven upper sand and gravel aquifer monitoring wells (BH88-2-I, BH88-6-I, MW1-12, MW3-16, MW4-16, MW5-16, and MW6-16).”
 - Groundwater monitoring was performed at the seven upper sand and gravel aquifer monitoring wells: BH88-2-I, BH88-6-I, MW1-12, MW3-16, MW4-16, MW5-16, and MW6-16; the results are discussed in Section 4.
- “Condition 4.2 and 4.3: Groundwater will be sampled from seven upper sand and gravel aquifer monitoring wells (BH88-2-I, BH88-6-I, MW1-12, MW3-16, MW4-16, MW5-16, and MW6-16) in May, August, and December each year and analyzed for general chemistry, dissolved metals, and pesticides (including organochlorine pesticides and herbicides).”
 - Groundwater was sampled from BH88-2-I, BH88-6-I, MW1-12, MW3-16, MW4-16, MW5-16, and MW6-16 in May, August, and December 2025 and analyzed for general chemistry, dissolved metals, and pesticides; the results are discussed in Section 6.
- “Condition 4.4: Surface water samples will be collected from SW1B in May, August, and December each year and analyzed for field parameters, general chemistry, total metals, oil & grease, and pesticides (including organochlorine pesticides and herbicides).”
 - Surface water was sampled from the SW1B Pond in May, August, and December 2025 and analyzed for field parameters, general chemistry, total metals, oil & grease, and pesticides; the results are discussed in Section 6.
- “Condition 4.6: Water samples collected from the recirculation pond and analyzed for general chemistry, nutrients, metals, and pesticides (including glyphosate, atrazine, atrazine desethyl and aminomethylphosphonic acid [AMPA]).”
 - Water samples from the recirculation cell were collected in April and November 2025 and analyzed for general chemistry, nutrients, metals, and pesticides. Additional information is provided in Section 3.3 and the results are discussed in Section 6.
- “Condition 5.1 to 5.3: Develop a Contingency and Pollution Prevention Plan prior to the commencement of the Works.”
 - A Contingency and Pollution Prevention Plan was developed prior to the commencement of the Works and submitted to the MECP on May 29, 2017 (email from Maria Topalovic [CRH] to Fariha Pannu [MECP] on May 29, 2017).

- “Condition 5.4: The plan required by Condition 5.1 shall be provided to the County of Brant and posted on the CRH website for a thirty (30) day comment period.”
 - The Contingency and Pollution Prevention Plan was provided to the County of Brant and posted on the CRH website on April 13, 2017 with the 30-day comment period completed on May 13, 2017.
- “Condition 6.1: Submit a spill report to the MECP District Manager within fifteen (15) working days of a reportable spill into the environment.”
 - No reportable spills occurred at the Site in 2025.
- “Condition 6.2: Submit an annual Report to the MECP District Manager within ninety (90) days following the end of the period being reported upon.”
 - The 2025 Combined Annual Monitoring Report will be submitted before the March 31, 2026 due date.
- “Condition 7: Make the annual report available to the Community Advisory Panel and publicly by posting it on the CRH website.”
 - The 2025 Combined Annual Monitoring Report will be made available to the Community Advisory Panel and the public on the CRH website by March 31, 2026.

All of the ECA monitoring and reporting requirements have been met.

A summary of the 2025 water level monitoring and sampling program as required by the ARA, PTTW, and ECA is provided in Table 1.2.

3. Pit Operations and Activities

3.1 2025 Monitoring Program

The 2025 Monitoring Program consisted of hydraulic monitoring at 22 groundwater monitoring well locations, two piezometer locations, two surface water features, and four supplemental off-Site monitoring well. Water quality sampling events were conducted on May 26/27, August 26/27, and December 11/12, 2025 at 18 groundwater monitoring wells installed on the property as well as one surface water monitoring location.

In 2025, water levels from a monitoring well located on an adjacent property owned by CRH (MW12-23, MW13-23, MW14-23 and MW15-23) were included in this report.

The groundwater and surface water monitoring locations are provided on Figure 1.3, the monitoring well completion details are provided in Table 1.1, and the 2025 Monitoring Program is detailed in Table 1.2.

3.2 Settling Pond Operations

There were no significant issues encountered during operation of the Settling Pond in 2025.

3.3 Recirculation Cell Sampling

Water samples were collected at the beginning of the washing season, in April 2025, and before the end of the washing season, in November 2025. The water samples were collected from the recirculation cell adjacent to the pump intake using a telescoping swing arm sample rod.

The recirculation cell samples were analyzed for general chemistry, metals, and pesticides (including glyphosate, atrazine, atrazine desethyl and AMPA), as specified in Condition 4.7 of the ECA.

3.4 Operation, Inspection and Maintenance

The Operations Manual required in Condition 3 of the ECA has been completed, reviewed, updated as necessary, and implemented by the Site. It includes information pertaining to operating procedures for routine operations, inspection programs, repair and maintenance programs, contingency plans and procedures, and procedures for receiving and responding to public complaints.

The Contingency and Pollution Prevention Plan required in Condition 5 of the ECA has been completed, reviewed, and updated as necessary by the Site.

3.5 Adequacy of the Works

No operating problems were encountered at the Site in 2025 that required corrective actions or maintenance on major structures, apparatus, or mechanisms forming part of the Works.

4. Hydraulic Monitoring

Hydraulic monitoring (manual water level measurement) was performed three times as part of the regular monitoring program in 2025 for all groundwater and surface water monitoring locations around the Site in accordance with the Site Plans. More frequent monthly/weekly monitoring was completed at a select number of monitoring locations, as per Condition 4.7 of the PTTW - Trigger Mechanism and Contingency Plan (TMCP; GHD, 2017).

Groundwater depths were measured manually at 22 monitoring wells, two piezometers and four supplemental off-Site wells using an electronic water level meter. Surface water elevations were measured manually at three locations (SW1A, SW1B, and SG2B) from surveyed instruments. Staff gauge location SG2B was installed proactively on June 4, 2021 to ensure monitoring of the main pond could continue should the SW1B monitoring location go dry and to establish a relationship between water levels within the wetland margins (SW1B) and the open pond area (SG2B).

Dataloggers were operating at all groundwater and surface water locations and were downloaded during each monitoring event. Four datalogger malfunctions were experienced in 2025:

- BH88-5-I and BH88-5-II data were lost for 1-week following a reset error on December 4, 2025; water level collection recommenced on December 11, 2025.
- MW3-12 failure was identified on October 3, 2025 and replaced on October 9, 2025; approximately 8 days of water levels were determined to be erroneous based on comparing water level trends at nearby well MW1-12.
- SG2B data were found to be erroneous following repairs on September 19, 2025 following datalogger installation maintenance. A datalogger elevation could not be established until October 10, 2025 as the datalogger was settling within the soft pond sediments.

The 2025 groundwater and surface water monitoring manual elevations are provided in Table 4.1, hydrographs of historical groundwater and surface water data are presented in Appendix C, including datalogger data.

Note that the last monitoring event for the groundwater and surface water locations at the Site was completed between December 11 and 12, 2025. The hydrographs in Appendix C show datalogger data up to the final monitoring event of 2025 at each location rather than the end of the year (December 31, 2025). Outstanding datalogger data will be presented in the 2026 AMR.

4.1 Precipitation

The 2025 daily and monthly precipitation data obtained from Environment Canada for Hamilton A (Airport) Station (I.D. #6153193) are presented on Figure 4.1 compared to the monthly Environment Canada Climate Normals (1991-2020) prepared for the Station #6153193.

As shown on Figure 4.1, precipitation totals varied month-to-month compared to historical averages. However, on average the first half of the year was consistent with historical averages (February to June); approximately 97% of the historical average (378 mm vs 362 mm). The later half of the year (July to November) was significantly (57%) below the historical average (227.3 mm vs 400.1 mm). January 2025 extended dry conditions that began in August 2024 (307.9 mm vs 442.8 mm; 57% below average from August 2024 to January 2025). Normal precipitation conditions returned in December 2025.

Overall, the 2025 total precipitation was 701 mm, compared to the 1991-2020 climate normal precipitation total of 902.3 mm (78% of the average annual precipitation).

4.2 Site-Wide Groundwater Elevations

Dufferin groundwater monitoring wells at or near the Site are screened in the unconfined overburden aquifer (BH88-1-I, BH88-2-I, BH88-4-I, BH88-4A-II, BH88-5-I, BH88-5-II, BH88-6-I, MW1-12, MW2-12, MW3-16, MW4-16, MW5-16, MW6-16, MW8-22, MW9-22, MW10-22, MW11-22, OW1-96B, OW1-96C, MW12-23, MW13-23, MW14-23, and MW15-23), and confined bedrock aquifer (BH88-4A-I, BH88-5A-I, and OW1-96A). The locations of the groundwater monitoring wells are shown on Figure 1.3. Groundwater elevations measured in 2025 are provided in Table 4.1.

Hydrographs showing 2025 and historical data for the groundwater monitoring wells completed in the overburden are provided on the lower and upper panels of Figure 4.2, respectively, and hydrographs of the groundwater monitoring wells completed in the bedrock are provided on Figure 4.3. Individual (or nested where applicable) hydrographs for all groundwater monitoring wells are provided in Appendix C.

Figure 4.2 and Figure 4.3 show the overall, generally stable water level patterns across the Site while the hydrographs in Appendix C detail the individual variations. In 2025, groundwater and surface water elevations were on the lower end of their typical historical ranges for each of the monitoring locations with water levels approaching the lower range of historical observations heading into the second half of the year; particularly surface water levels at SW1B.

Seasonal groundwater contours were prepared for the Outwash Sand and Gravel Deposits (overburden) using groundwater elevation data collected between May 26 and 27, 2025, as presented on Figure 4.4. The May groundwater elevation contours show the typical water table conditions.

Generally, the regional groundwater flow patterns remain unchanged and consistent with the updated hydrogeological Site setting described in Section 2.1.1. Groundwater in the Upper Unconfined Aquifer at the Site is recharged vertically through infiltration of precipitation and from inflow from upgradient locations. On-Site, within the unconfined overburden, subterranean low permeability till ridges appear to interrupt the generally southeastward groundwater flow direction and redirect the groundwater flow south-southwest within the higher permeability sand and gravel between the bounding till ridges. Observed groundwater flow patterns are presented on Figure 4.4.

Contours for the historically observed maximum water table have also been developed for 2025 and are presented on Figure 4.5; no changes to the maximum observed water table were required based on the 2025 monitoring results. Monitoring results for all unconfined overburden monitoring wells (both manual and datalogger measurements) were reviewed to identify the maximum observed groundwater elevation at each location. The elevations were then contoured to represent the approximate maximum observed water table across the Site. Recent ground surface contours (December 14, 2023) are also presented on Figure 4.5 for reference.

The bedrock groundwater levels show frequent cyclical drawdown to water levels (provided on Figure 4.3). This drawdown is attributed to pumping at nearby municipal bedrock wells for the Gilbert Wellfield (P28 and P29) and the Telfer Wellfield (P32).

In addition to the hydraulic monitoring described above, monitoring wells BH88-5-I, MW1-12, and MW3-16 were also monitored (typically monthly) as part of the Trigger Mechanism and Contingency Plan (Condition 4.7 of the PTTW), as described in Section 4.3, below.

4.3 PTTW Groundwater and Surface Water Monitoring

The PTTW, to allow water taking from the Source Pond, was issued on April 27, 2017 and amended on August 13, 2021. The water taking is for the purpose of aggregate washing, dust control, and vegetation watering.

As required by Condition 4.7 of the PTTW, a TMCP was submitted and approved by the MECF on July 19, 2017. The purpose of the TMCP is to have an assessment and evaluation procedure in place to review water levels during the time when Dufferin is taking water from the Source Pond and establish an action plan to respond if key groundwater or surface water levels drop below predicted levels evaluated as part of the PTTW assessment.

PTTW Condition 4.2 and 4.3 requires continuous monitoring at BH88-5-I, BH88-5-II, MW1-12, MW3-16, SW1A, SW1B, MP1S, and MP2S (i.e., with a datalogger), the TMCP identified additional monitoring requirements for the following locations:

- BH88-5-I
- MW1-12
- MW3-16
- SW1B

In accordance with the PTTW Condition 4.4, groundwater and surface water elevations were compared to the simulated water level changes (drawdown) outlined in Section 6.1.2 of the PTTW Application and Supporting Hydrologic and Hydrogeologic Study (CRA, 2013).

For each of the four TMCP locations, historical lows based on analysis of monitoring data collected between 1988 and August 2016, early-warning threshold levels (EWTL), and trigger levels were established to facilitate monitoring during Source Pond operation as part of the TMCP.

Summaries of the trigger mechanism water elevations for 2025 are presented on Figures 4.6a through 4.6d for BH88-5-I, MW1-12, MW3-16 and SW1B, respectively. Also shown on these hydrographs are the 2015 to 2025 water elevation data, historical water elevation ranges, EWTLs, and trigger levels following establishment in 2017.

In 2025, each of the trigger monitoring groundwater wells (BH88-5-I, MW1-12, and MW3-16) showed groundwater levels that were generally within the typical range. Pumping from the source pond at the higher approved rates in March and April 2025 resulted in a drop in the water table to below the EWTL; however, a reduction in pumping rates to less than the lower approved rates, as described below, combined with precipitation and groundwater inflow, allowed for groundwater levels to recover to within historical ranges (and above the EWTL) by the end of May. Again, in July 2025, pumping from the source pond at the higher approved rates resulted in a drop in groundwater levels below the EWTL; following a return to the lower pumping rates, groundwater levels recovered to within historical ranges by the end of July.

Following monitoring on March 28, 2025 and again on July 30, 2025, groundwater water levels were identified below the EWTL and historical range in the preceding month at MW1-12 and MW3-16, weekly monitoring was initiated and pumping rates were reduced (as required by the TMCP). Increased surface water level monitoring was also required under the TMCP as discussed in Section 4.4.

Throughout 2025, datalogger checks were completed at trigger well locations on a minimum monthly frequency to ensure continued operation and continuous recording [per Condition 4.2(d) of the PTTW]. Monitoring may occur more frequently or less frequently based on Site condition observations and routine reviews of the monitoring data.

4.4 Surface Water and Piezometer Level Elevations

Further to the TMCP discussion in Section 4.3, Surface water elevations are measured at locations SW1A (small pond), SW1B (main pond at edge), and SG2B (open water portion of main pond) as well as two piezometers; MP1S and MP2S. MP1D was decommissioned in 2017, as noted in the 2017 annual monitoring report. Currently, the multilevel piezometers are being monitored as "shallow" (MP2S) and "deep" (MP1S) to monitor the hydraulic connection and vertical flow directions.

Surface water monitoring locations are shown on Figure 1.3 and surface water elevations measured in 2025 are provided in Table 4.1.

Surface water elevation hydrographs are presented in Appendix C for locations MP1S/MP2S (Figure C.21), SW1A (Figure C.22), and SW1B/SG2B (Figure C.23). The surface water elevations in the SW1B pond are generally about 1 m higher than the elevation in the small downgradient (SW1A) pond to the southeast.

The surface water elevations in 2025 were within the historical ranges in the first half of 2025 and decreased to below the historical range beginning in late July 2025 following the commencement of a prolonged low precipitation period. Surface water levels remained below the historical range through to December 15, 2025 when TMCP ranges are no longer in effect for winter conditions. It should be noted that datalogger data indicates that water levels did recover above the Surface Water Early Warning Threshold on December 17, 2025.

The SW1B Pond is monitored as part of the TMCP (Condition 4.7 of the PTTW). As shown on Figure 4.6d, the water elevations were on the lower end of historical observations beginning in July and remained low through the end of the year. The historical range present is the range defined in the TMCP and is prepared utilizing data from August 2012 to August 2016. Water levels have been observed below the historical range in 2021 and 2022 resulting from periods of below normal precipitation.

As presented on Figure 1.3, feature SW1B is installed within the wetland fringe. This is to allow for routine monitoring access; this location was used to develop the TMCP targets. In 2021, as surface water elevations decreased into the summer, SG2B was proactively installed within an open water portion of the wetland to facilitate continued data collection should SW1B dry out.

In 2021 and again in 2022, surface water elevations at SW1B dropped below the ground surface at that feature. Instrument SW1B, however, is advanced as a shallow piezometer within the wetland soils which allows for continuous data collection following a dry-out of the wetland fringe. It should be noted that, during these times, surface water elevations at SG2B are often recorded at a slightly lower elevation than SW1B following precipitation events. This is attributed to a slower rate of infiltration within the fringe soils/vegetation resulting in higher recorded elevations at SW1B following small to mid-size precipitation events which stabilize with the open pond water elevations within a few days to weeks. SW1B elevations continue to be used for comparison to the TMCP as that feature, in that location, was used to develop the historical ranges.

Vertical Hydraulic Gradient

In accordance with Condition 4.3 of the PTTW, calculation of the vertical hydraulic gradients at the multi-level piezometers is required.

Figure C.21 (in Appendix C) shows the hydrograph of the "shallow" piezometer location, MP2S, and the "deep" piezometer location, MP1S. The piezometer screen lengths are approximately 0.75 m.

The water level data and hydrographs for 2025 show an upward vertical hydraulic gradient occurs between the shallow (MP2S) and deep (MP1S) piezometers.

The following is an example vertical hydraulic gradient calculation from the May 26, 2025 monitoring data:

$$\text{Vertical Hydraulic Gradient} = \frac{\text{Difference in water level elevation}}{\text{Vertical distance between midpoints of piezometer screen elevations}}$$

$$\text{Vertical Hydraulic Gradient} = \frac{(244.26 - 244.18)}{(242.25 - 243.10)}$$

$$\text{Vertical Hydraulic Gradient} = \frac{(0.08)}{(-0.85)}$$

$$\text{Vertical Hydraulic Gradient} = -0.09 \text{ (i.e., upward)}$$

The upward vertical hydraulic gradient in the piezometer locations confirms groundwater discharges to the SW1B (main pond) feature. Following periods of heavy precipitation, the upward vertical hydraulic gradient may be reduced

to near zero and, for short durations, and short duration flow reversals can be noted in the transducer data as a result of the infiltration of precipitation (see, for example, water levels on March 31/April 1st, 2023 on Figure C.21). As shown on Figure C.21, the long-term upward gradient has been evident since 2017 monitoring was established and was maintained in 2025. In addition, field observations obtained on November 14, 2025 confirm presence of groundwater discharge south of MP1S/MP2S at the groundwater seeps.

5. Water Taking

In 2025, the Site operated under PTTW No. 7481-C4BQTA dated August 13, 2021. The PTTW is provided in Appendix A.

The maximum pumping rate allowed for the Source Pond under the PTTW is 10,000 L/min for a maximum of 12 hours per day to a maximum of 7,200,000 L/day. As specified in Condition 3.4, the “Taking Specific Purpose” includes aggregate washing, dust suppression, and watering vegetation. As specified in Condition 3.5, the allowed rate of taking from the Source Pond may only be at the rate in Table A (i.e., 10,000 L/min) for a total of 30 days per annum for the purpose of refilling the settling and recirculation cells after removal of accumulated sediment from these ponds or repairing the liner in the recirculation cell with the remaining 200 days at a rate of no more than 1,400 L/min for 12 hours per day. As specified in Condition 3.5(i) and Condition 3.5(ii), water taken during a 12-hour period between a Sunday and the following Monday (or in the case of a long weekend, a holiday Monday and Tuesday) will be measured and shall be recorded as being taken on the Sunday (or holiday Monday). As specified in Condition 3.6, water takings will only occur between February 15 and December 31 of each year. As specified in Condition 3.7, if water takings from the Source Pond are at a lower than maximum permitted rate, the saved water can be pumped in other days exceeding the total number of 230 days, provided water takings occur between February 15 and December 31, inclusive. The rate of taking shall not exceed 1,400 L/min, 1,008,000 L/day, and the cumulative volume pumped in all days from February 15 to December 31 shall not exceed 417,600,000 litres annually.

Water takings are calculated using measurements obtained from a flow meter. The cumulative pump operating hours are recorded with an hour meter. Pumping equipment is equipped with a timed shutoff valve to prevent water taking greater than 12 hours per day.

These data were recorded daily by Dufferin personnel during the operating season. No water taking occurred outside of the operating season.

The rate of taking is determined by dividing the total flow in a period by the total number of pumping hours in that same period.

5.1 Water Taking Data

The water takings and rates were recorded daily for 2025 and are provided in Table 5.1.

The aggregate washing operation balances the amount of water taking with the need for top up water in the system and the water levels in the two main trigger level monitoring wells (MW3-16 and MW1-12). Dufferin manages and monitors water takings and only take water on an as-needed basis.

The maximum water taking rate and total occurred on March 13, 2025 at a rate of 9,967 L/min (7,116,552 L total). Of the available 30 days of pumping to a maximum 10,000 L/min, all 30 were used in 2025 with a combined average rate of taking of 8,938 L/min (less than the permitted rate of 10,000 L/min). There were no exceedances of the higher water taking rate of 10,000 L/min in 2025. There were no exceedances of the lower water taking rate of 1,400 L/min during the applicable period in 2025.

Water takings occurred between March 13 and December 1 in 2025 for a total of 219 days and a cumulative total of 360,862,182 litres. There were no exceedances of the PTTW maximum permitted rates or limits in 2025.

6. Analytical Results

Groundwater and surface water quality monitoring is required as part of the ARA Licence and ECA. The 2025 monitoring program is summarized in Table 1.2.

Site-wide water quality sampling was performed on three occasions in 2025 to determine the groundwater and surface water quality at the Site. Prior to collecting any groundwater samples, the groundwater monitoring wells were purged and field parameters (typically pH, conductivity, turbidity, oxidation-reduction potential, dissolved oxygen, and temperature readings) were measured and recorded to ensure that representative groundwater samples were collected. Field parameters were also recorded at the surface water sample location during the sampling activities. Groundwater samples were field-filtered for dissolved metals. The groundwater and surface water samples were collected in laboratory-supplied analyte-specific sample containers, preserved according to laboratory requirements, and delivered in coolers, on ice, under chain-of-custody procedures. Samples were received and analyzed by ALS Laboratories, located in Waterloo, Ontario. Laboratory results were reviewed and validated by a GHD chemist to confirm acceptability of the laboratory results; all 2025 results were considered acceptable for use with the noted qualifiers.

The 2025 validated analytical results are provided in Tables 6.1 to 6.6.

6.1 Groundwater Quality

Groundwater analytical results for 2025 are summarized in Tables 6.1 to 6.3.

Routine groundwater samples were collected from 18 monitoring well locations around the Site during the May, August, and December sampling events, as summarized in Table 1.2.

The groundwater samples were analyzed for general chemistry and dissolved metals. Seven of the monitoring wells were also analyzed for pesticides (including organochlorine pesticides and herbicides), as specified in Condition 4.3 and 4.4 of the ECA.

The groundwater analytical results were compared to the 2020 Ontario Drinking Water Quality Standards, Objectives and Guidelines (ODWQS) including the Aesthetic Objectives and Operation Guidelines (revised June 2006). The monitoring well groundwater quality is compared to the ODWQS for illustrative purposes only since the ODWQS pertain to municipal water supply and are not directly applicable to groundwater quality.

Consistent with the ECA requirements, some analyses were run to relatively low laboratory detection limits, well below those typically used for drinking water supply systems. No pesticides, atrazine, or metabolites were detected in any of the groundwater samples collected from monitoring wells during any of the monitoring events in 2025.

Parameter concentrations for the 2025 sampling events were generally comparable to historical results and met the ODWQS, with the following exceptions:

- Hardness concentrations were above the ODWQS of 100 mg/L in all groundwater samples from monitoring wells during all 2025 monitoring events. Hardness concentrations have historically always been above the ODWQS in the groundwater samples in all monitoring well locations. In 2025 concentrations ranged from 261 to 638 mg/L and are within the historically detected range of concentrations between 164 and 730 mg/L. Hardness is a natural occurrence in this region and is characteristic of the local groundwater being influenced by carbonate-bearing overburden and the underlying carbonate bedrock. The ODWQS for hardness is an operational guideline for municipal water supply and is not considered a health concern.
- Nitrate concentrations were above the ODWQS of 10 mg/L in BH88-1-I, BH88-2-I, BH88-4-I, MW5-16 and MW8-22 with concentrations ranging from 10.1 (at BH88-4A-I in both May and December 2025) to 15.4 mg/L (MW8-22 in December 2025). Nitrate concentrations have historically been above the ODWQS in the groundwater samples at each of these monitoring locations. The nitrate concentrations are comparable to historical results in the area (both on-Site and off-Site) and generally are the result of upgradient agricultural land

use. Nitrate has also been a long-term issue for the County of Brant Gilbert/Telfer water supply wells and is unrelated to the Paris Pit aggregate operations.

- Total dissolved solids (TDS) concentrations were above the ODWQS of 500 mg/L in BH88-5A-I for the May, August, and December events with concentrations of 738, 732 (estimated), and 761 mg/L, respectively. The elevated concentrations of TDS reflect the increased calcium and sulphate concentrations within the bedrock aquifer at BH88-5A-I and are a natural occurrence. TDS was also above the ODWQS at MW2-12 in May and August 2025 at concentrations of 642 and 628 (estimated) mg/L. TDS concentrations at MW2-12 are likely associated with the installation and operation of the septic system at the site office located approximately 100m southwest of MW2-12 which was commissioned in Spring 2023. Operation of the new office commenced in 2023 and utilizes water obtained from a bedrock supply well. The ODWQS standard reflects an aesthetic objective related to taste and is not considered a health concern.
- Dissolved aluminum was above the ODWQS of 0.1 mg/L in MW8-22 (December 2025) at a concentration of 0.204 mg/L. Periodic detections of dissolved aluminum are observed on-Site and are typically correlated with elevated total suspended solids and could be attributed to a damaged field filter. Dissolved aluminum is naturally occurring and is considered an aesthetic objective and is not a health concern.
- Dissolved iron was above the ODWQS of 0.3 mg/L in BH88-5A-I (all) and in BH88-6-I (December) with concentrations ranging from 0.36 mg/L (BH88-5A-I in August) to 2.16 mg/L (BH88-6-I in December). Each of these monitoring well locations have had historical detections above the ODWQS. Dissolved iron is naturally occurring and is considered an aesthetic objective and is not a health concern.
- Dissolved Manganese was above the ODWQS of 0.05 mg/L at BH88-6-I (August and December) at concentrations of 0.0761 and 0.0828 mg/L, respectively. This monitoring well has had historical detections above the ODWQS. Dissolved manganese is naturally occurring and is considered an aesthetic objective and is not a health concern.

Historical groundwater quality analytical data was presented in the 2021 annual monitoring report (GHD, 2022a) and on an annual basis thereafter.

6.2 Surface Water Quality

Surface water analytical results for 2025 are summarized in Tables 6.4 to 6.6.

Surface water samples were collected from SW1B (main pond) during the May, August, and December monitoring events.

The SW1B (main pond) surface water analytical results were compared to the Provincial Water Quality Objectives (PWQO; MECP July 1994, revised February 1999), which are generally applicable to surface water results. The comparison is for illustrative purposes as many factors influence the water quality of the pond.

SW1B

The SW1B samples were analyzed for field parameters, general chemistry, total metals, oil & grease, and pesticides (including organochlorine pesticides and herbicides), as specified in Condition 4.5 of the ECA.

No pesticides, atrazine, or atrazine metabolites, or glyphosate were detected in any of the SW1B water samples.

Parameter concentrations in SW1B for the 2025 sampling events were generally comparable to historical results and met the PWQOs, with the following exception:

- Field pH was below the PWQO of 6.5 to 8.5 standard units in December at a value of 6.35. The laboratory pH was 8.26 and indicates that the field pH may have been anomalous and a result of a field unit error.

Historical surface water quality analytical data was presented in the 2021 annual monitoring report (GHD, 2022a) and on an annual basis thereafter.

It should be noted that nitrate concentrations at SW1B in 2025 (and historically) were significantly lower than local groundwater concentrations; ranging from non-detect (May/August) to 3.30 mg/L (December) in 2025. These results continue to demonstrate the beneficial nitrate consuming effects of wetland and open water features.

6.3 Recirculation Cell Water Quality

Samples of wash water were collected in April and November 2025 from the recirculation cell, as required by ECA Condition 4.6 and 4.7. A duplicate sample was collected during each of the sampling events as part of the QA/QC measures. The water samples were collected from the recirculation cell adjacent to the pump using a telescoping swing arm sample rod.

Sample results are reported in Tables 6.4, 6.5, and 6.6 and compared to the PWQO; however, the recirculation cell water is not directly comparable to the PWQO's as the recirculation cell is part of the approved sewage works while the PWQOs apply to "natural water".

The recirculation cell samples were analyzed for general chemistry, total metals and pesticides (including glyphosate, atrazine, atrazine desethyl and AMPA), as specified in Condition 4.7 of the ECA.

No pesticides, atrazine, or atrazine metabolites, or glyphosate were detected in any of the recirculation cell water samples.

Nitrate concentrations in the recirculation cell ranged from 3.82 to 4.45 mg/L in 2025. The concentrations in the recirculation cell were stable in 2025 and below concentrations observed in the regional groundwater used to supply water to the washing operation. These results demonstrate that operation of the recirculating aggregate washing system does not accumulate nitrate in the recirculated wash water nor does the washing operations contribute to elevated nitrate concentrations in regional groundwater.

7. Response to Public Inquiries

No complaints were received by Dufferin in relation to the PTTW, ECA, or other water-related matters. Dufferin and GHD are not aware of any public inquiries reported to the MECP during the 2025 calendar year. There are currently no outstanding public inquiries or complaints.

8. Conclusions

The monitoring program at the Paris Pit was completed to satisfy the monitoring requirements of the Site ARA Licence, PTTW and ECA. Based on the results of the 2025 monitoring program the following conclusions are drawn:

- The water taking and aggregate washing operations have not caused any water (surface water or groundwater) quantity interference issues.
- No appreciable impacts to the surface or groundwater quality or quantity at the Paris Pit or nearby areas is indicated to have occurred as a result of aggregate washing operations.
- No pesticides, glyphosate, atrazine, or atrazine metabolites were detected in surface water or groundwater.
- No complaints were received by Dufferin in relation to the PTTW, ECA, or other water-related matters. Dufferin and GHD are not aware of any public inquiries reported to the MECP during the 2025 calendar year. There are currently no outstanding public inquiries or complaints.

9. References

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All of Which is Respectfully Submitted,
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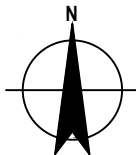
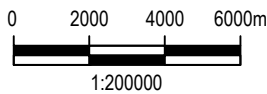
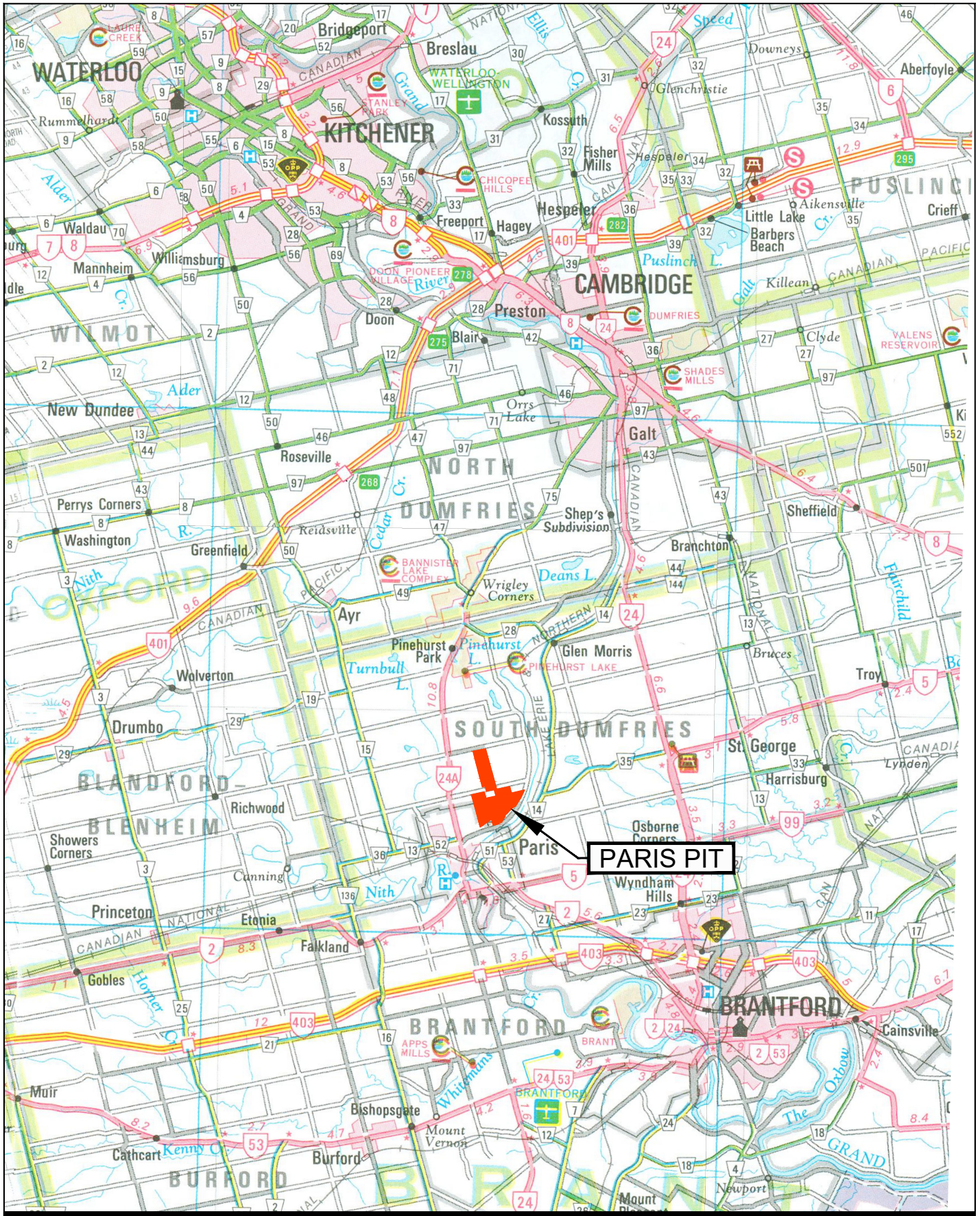
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➔ **The Power of Commitment**

Figures

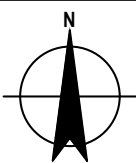
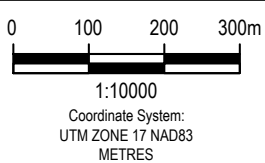
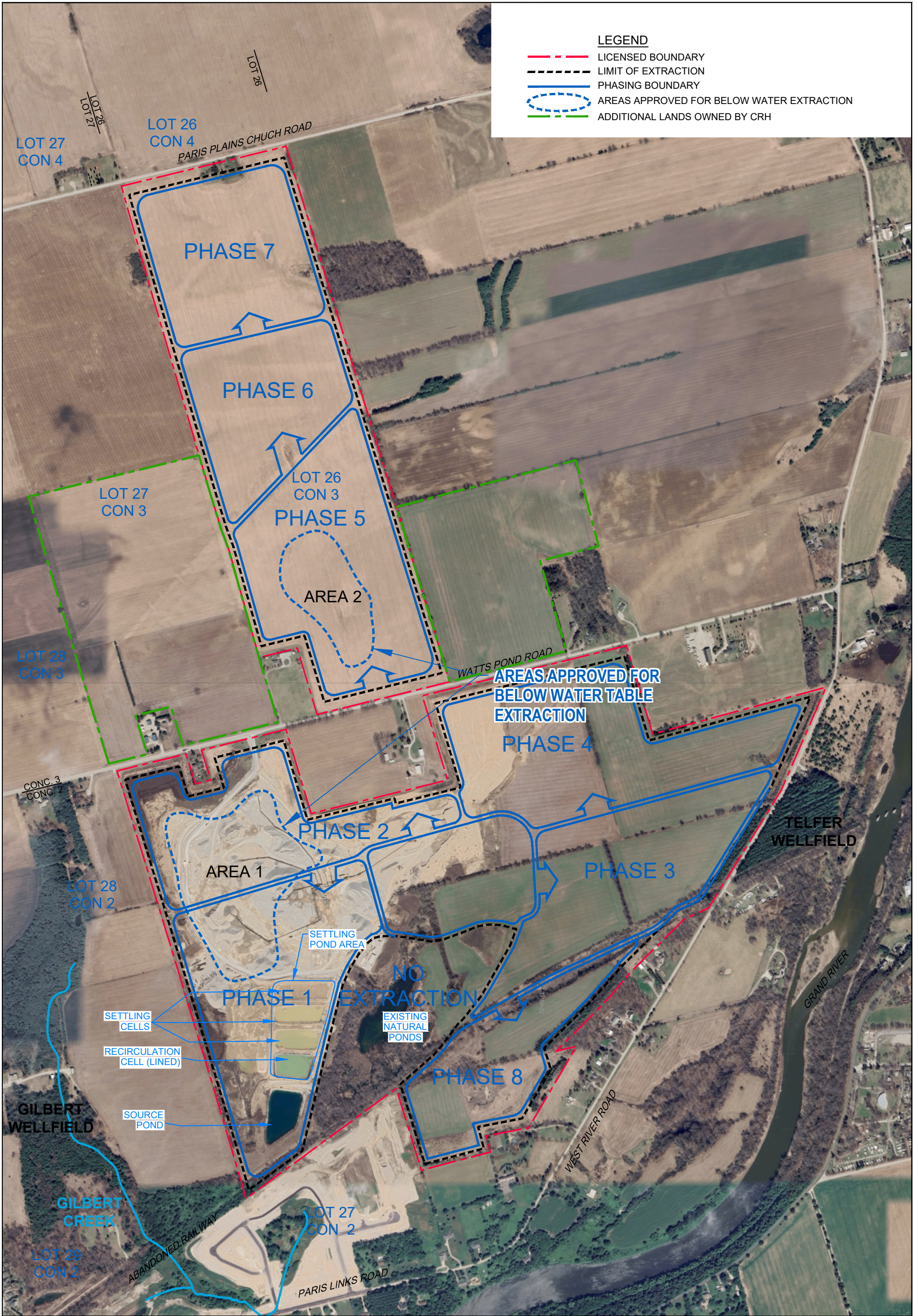


DUFFERIN AGGREGATES PARIS PIT
COUNTY OF BRANT, ONTARIO
2025 COMBINED ANNUAL MONITORING REPORT

Project No. 78410
Date January 2026

SITE LOCATION

FIGURE 1.1



DUFFERIN AGGREGATES PARIS PIT
COUNTY OF BRANT, ONTARIO
2025 COMBINED ANNUAL MONITORING REPORT

Project No. 78410
Date January 2026

PARIS PIT AND SURROUNDING LANDS

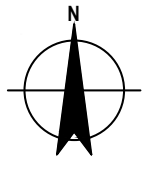
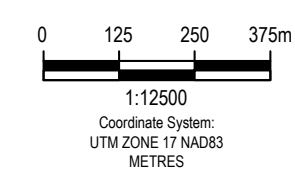
FIGURE 1.2



- LEGEND**
- 253.0 — GROUND SURFACE ELEVATION CONTOUR (mAMSL) - DECEMBER 14, 2023
 - LICENSED BOUNDARY
 - LIMIT OF EXTRACTION
 - EASEMENT
 - ADDITIONAL LANDS OWNED BY CRH
 - PROPOSED ENTRANCE/EXIT
 - EXISTING FIELD ENTRANCE
 - SPOT ELEVATION
 - MW1-12 MONITORING WELL INCLUDED IN THE GROUNDWATER MONITORING NETWORK
 - ▲ SW1A SURFACE WATER LOCATION INCLUDED IN THE SURFACE WATER MONITORING NETWORK
 - MP1S/MP1D/MP2S PIEZOMETER (NESTED AS SHALLOW AND DEEP) INCLUDED IN THE MONITORING NETWORK
 - BH88-3-I MONITORING WELL WAS DESTROYED
 - MW7-18 DECOMMISSIONED MONITORING WELL
 - SG2B STAFF GAUGE
 - MW12-23 SUPPLEMENTAL MONITORING WELL

WATER WELL RECORD (WWR) PRIMARY USE

- DOMESTIC WATER SUPPLY WELL (APPROXIMATE LOCATION)
- MUNICIPAL MONITORING WELL
- PUBLIC WATER SUPPLY WELL
- IRRIGATION WELL (APPROXIMATE LOCATION)
- LIVESTOCK WELL (APPROXIMATE LOCATION)

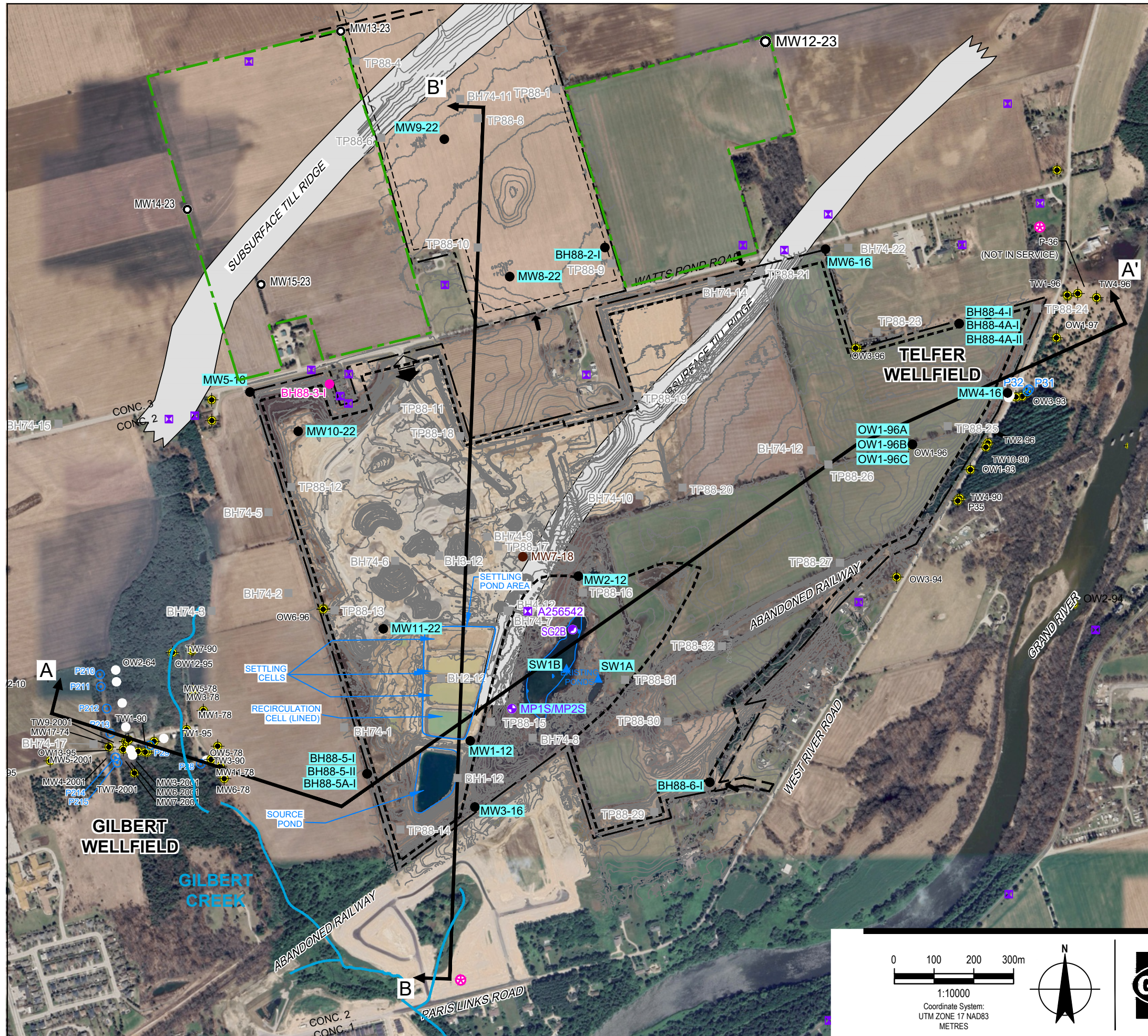


DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

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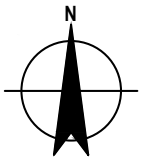
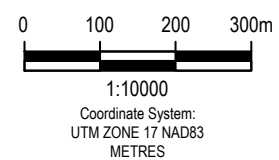
SITE MAP AND MONITORING LOCATIONS

FIGURE 1.3



- LEGEND**
- 253.0 — GROUND SURFACE ELEVATION CONTOUR - DECEMBER 14, 2023
 - LICENSED BOUNDARY
 - LIMIT OF EXTRACTION EASEMENT
 - ADDITIONAL LANDS OWNED BY CRH
 - ↔ SITE ENTRANCE/EXIT
 - ↔ EXISTING FIELD ENTRANCE
 - SPOT ELEVATION
 - MW1-12 MONITORING WELL INCLUDED IN THE GROUNDWATER MONITORING NETWORK
 - BH1-12 BOREHOLE (CRA, JULY 2012) (APPROXIMATE LOCATION)
 - TP88-11 TEST PIT (JAGGER HIMS LTD., 1988) (APPROXIMATE LOCATION)
 - BH74-10 BOREHOLE (FARVOLDEN, 1974) (APPROXIMATE LOCATION)
 - ▲ SW1A SURFACE WATER LOCATION INCLUDED IN THE SURFACE WATER MONITORING NETWORK
 - ⊕ MP1S/MP1D/MP2S PIEZOMETER (NESTED AS SHALLOW AND DEEP) INCLUDED IN THE MONITORING NETWORK
 - BH88-3-I MONITORING WELL WAS DESTROYED
 - MW7-18 DECOMMISSIONED MONITORING WELL
 - SG2B STAFF GAUGE
 - MW12-23 SUPPLEMENTAL MONITORING WELL
 - ↔ GEOLOGIC CROSS-SECTION LOCATION

- WATER WELL RECORD (WWR) PRIMARY USE**
- ⊗ DOMESTIC WATER SUPPLY WELL (APPROXIMATE LOCATION)
 - ⊙ MUNICIPAL MONITORING WELL
 - ⊕ PUBLIC WATER SUPPLY WELL
 - ⊗ IRRIGATION WELL (APPROXIMATE LOCATION)
 - ⊗ LIVESTOCK WELL (APPROXIMATE LOCATION)

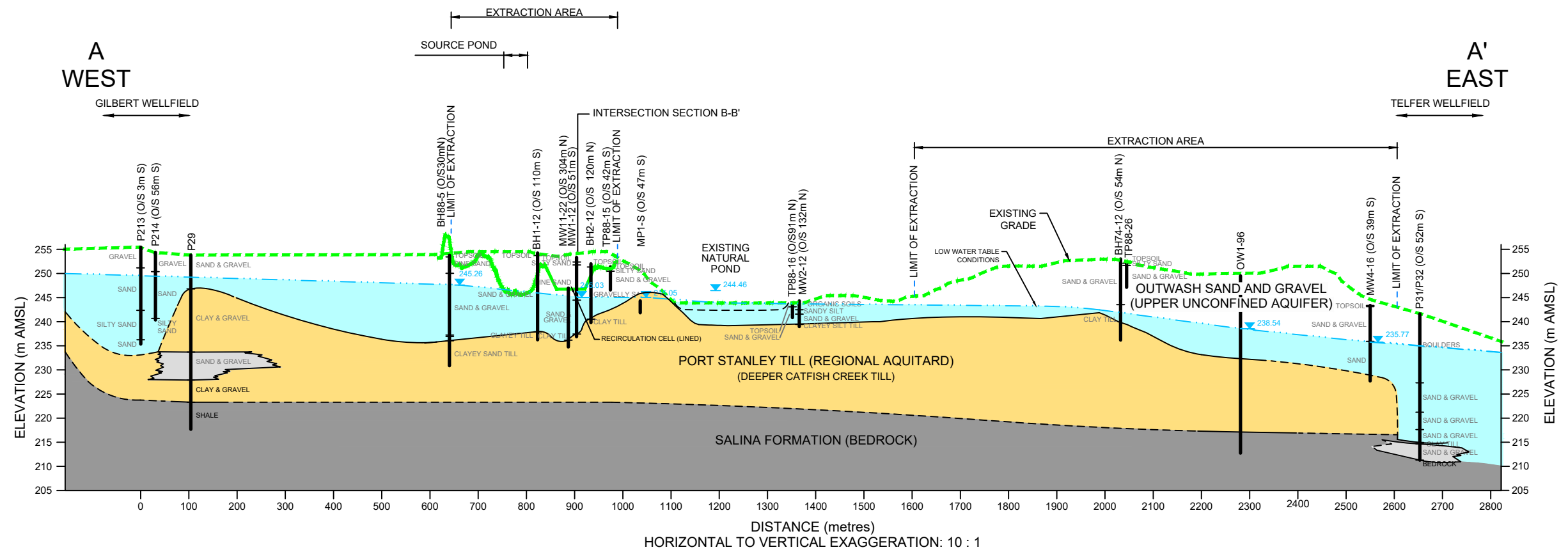


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Project No. 78410
Date January 2026

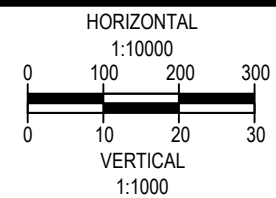
**SITE STRATIGRAPHIC
CROSS - SECTION LOCATIONS**

FIGURE 2.1



LEGEND

- MONITORING WELL / SOIL BORING / TEST PIT ID
- PRE-EXTRACTION GROUND SURFACE
- GROUND SURFACE ELEVATION - DECEMBER 14, 2023
- STRATIGRAPHIC CONTACT
- MAXIMUM OBSERVED WATER TABLE
- INTERPRETED MAXIMUM GROUNDWATER TABLE

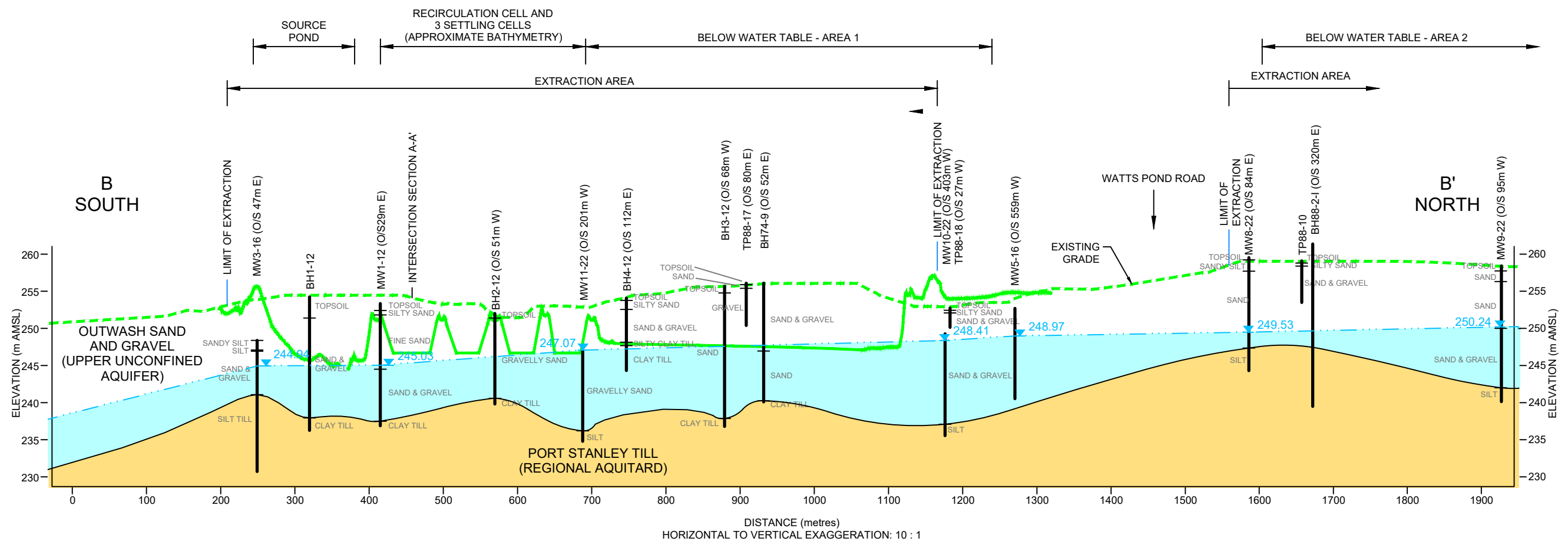


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**SITE STRATIGRAPHIC
 CROSS-SECTION A-A'**

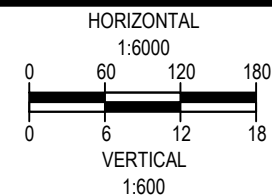
FIGURE 2.2



LEGEND

- MW1-12 — MONITORING WELL / SOIL BORING / TEST PIT ID
- PRE-EXTRACTION GROUND SURFACE
- CURRENT GROUND SURFACE ELEVATION - DECEMBER 14, 2023 (STOCKPILES REMOVED)
- STRATIGRAPHIC CONTACT
- MAXIMUM OBSERVED WATER TABLE
- INTERPRETED MAXIMUM GROUNDWATER TABLE

NOTE:
STOCKPILES REMOVED FROM DECEMBER 14, 2023 TOPOGRAPHIC PROFILE BY INTERPOLATION ACROSS THE PILE BASE.

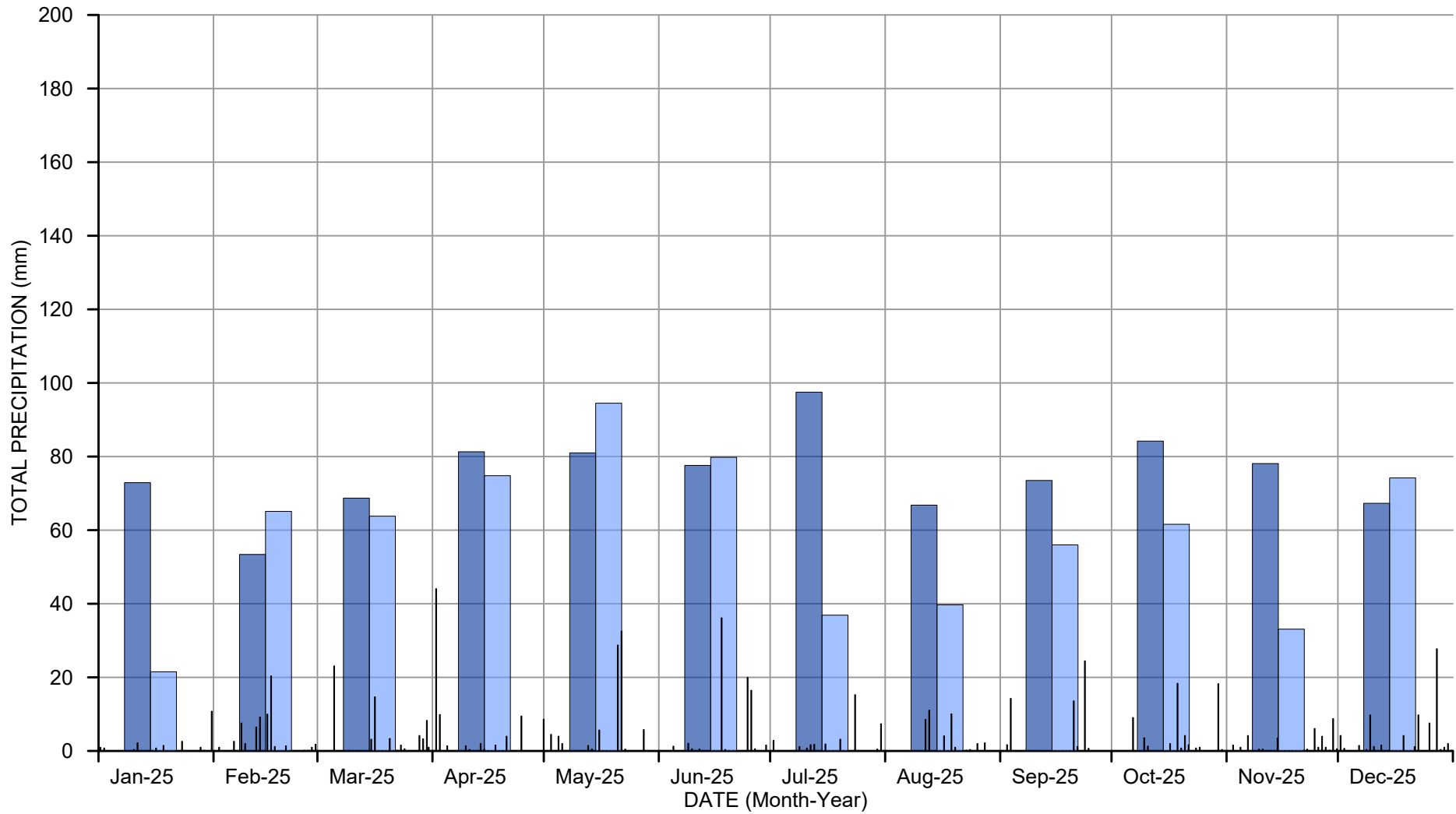


DUFFERIN AGGREGATES PARIS PIT
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**SITE STRATIGRAPHIC
CROSS-SECTION B-B'**

FIGURE 2.3



NOTE:
 (1) Hamilton Airport data obtained from Environment Canada Station #6153193.

LEGEND

- Climate Normals (1991-2020, Hamilton Airport)
- Monthly Precipitation
- Daily Precipitation

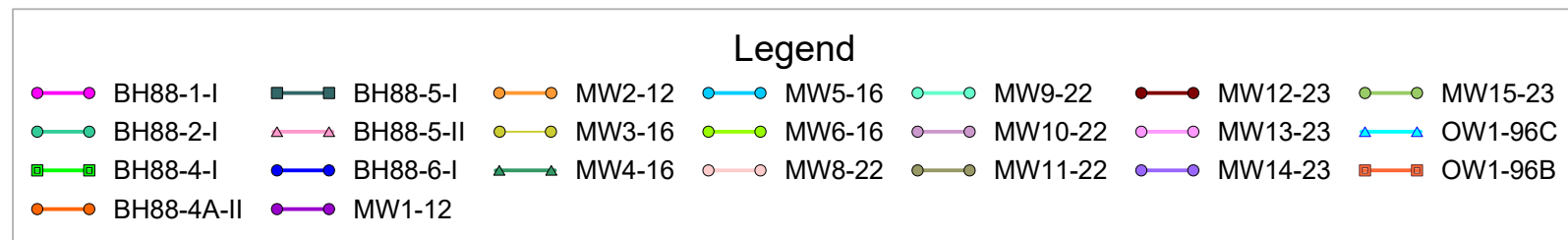
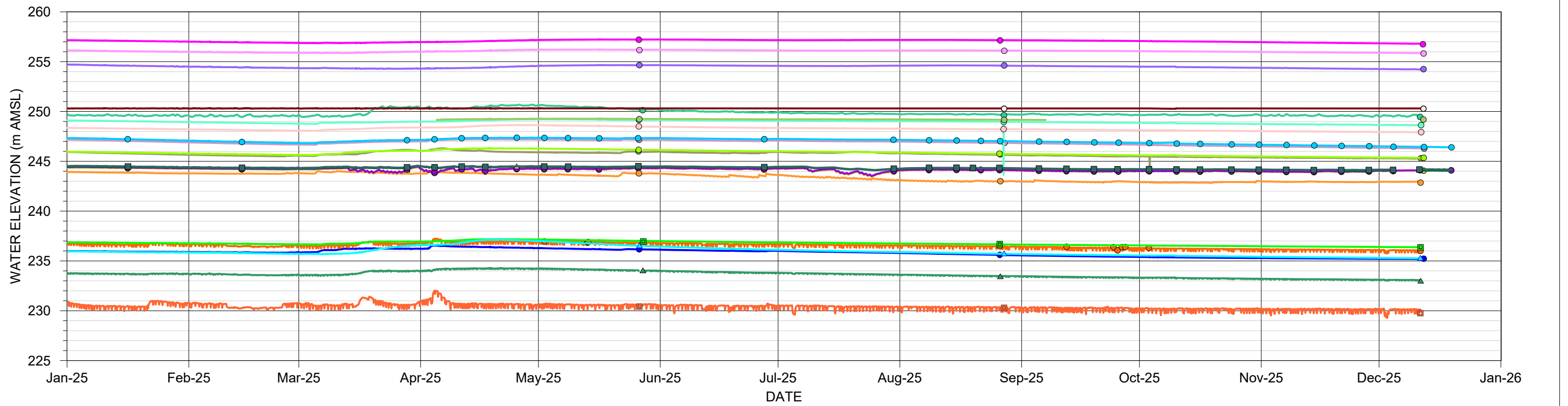
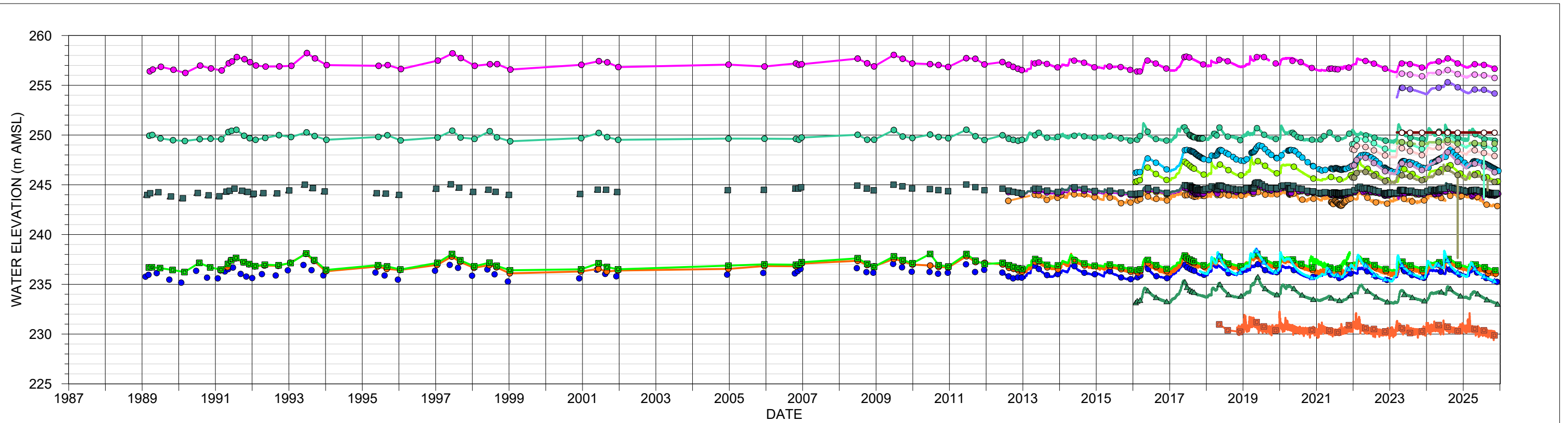


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO
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2025 PRECIPITATION SUMMARY

FIGURE 4.1

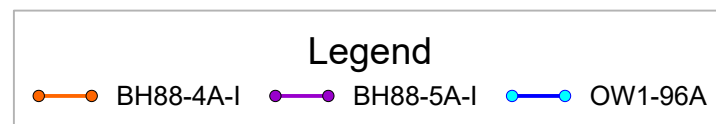
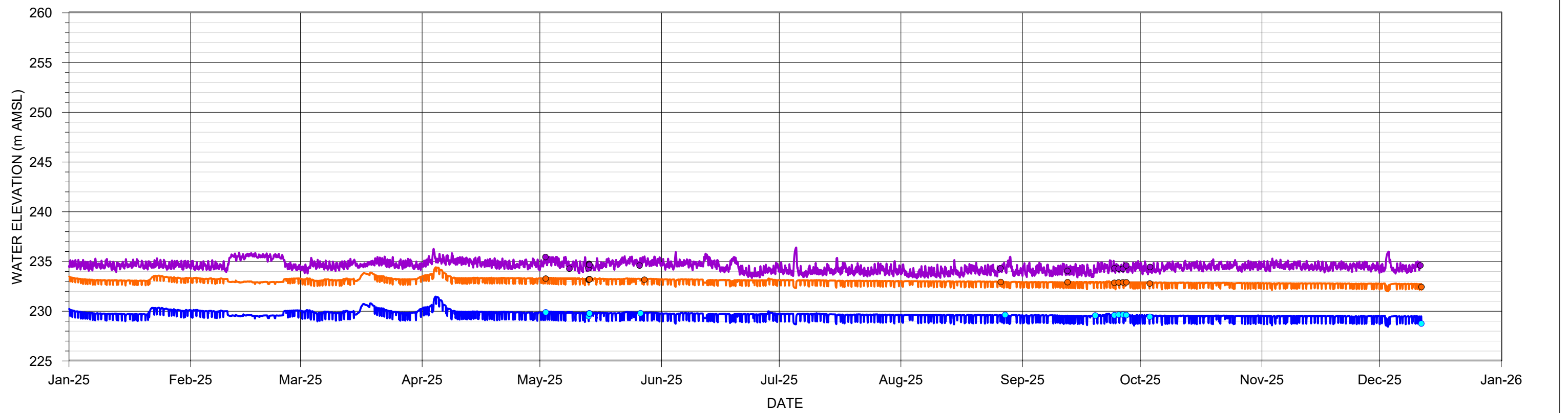
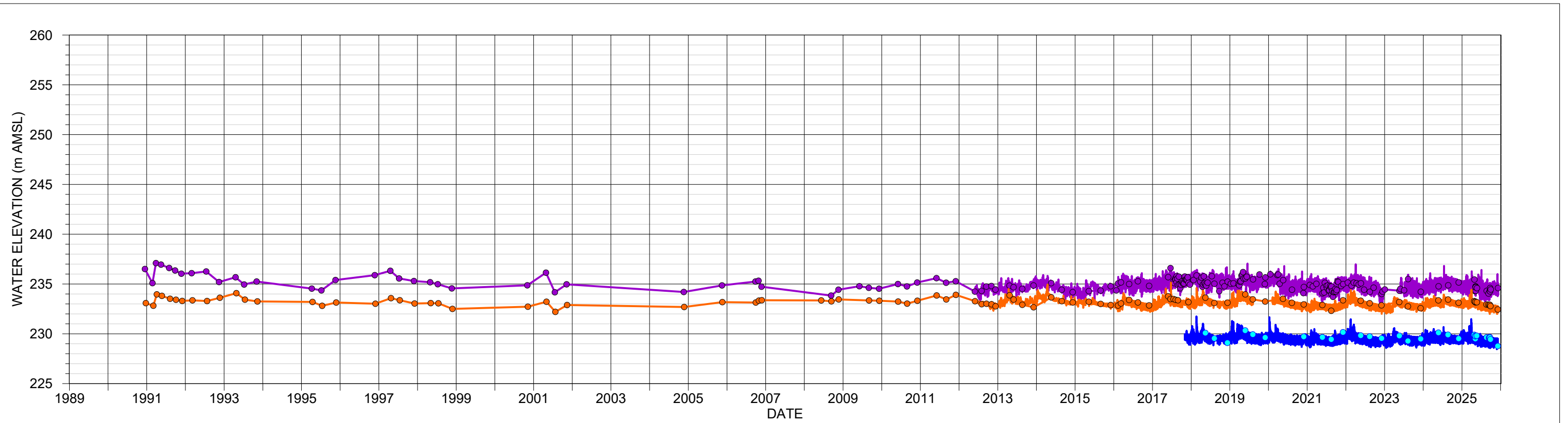


DUFFERIN AGGREGATES PARIS PIT
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**GROUNDWATER HYDROGRAPH
 OVERBURDEN**

Project No. 078410-20
 Date January 21, 2026

FIGURE 4.2

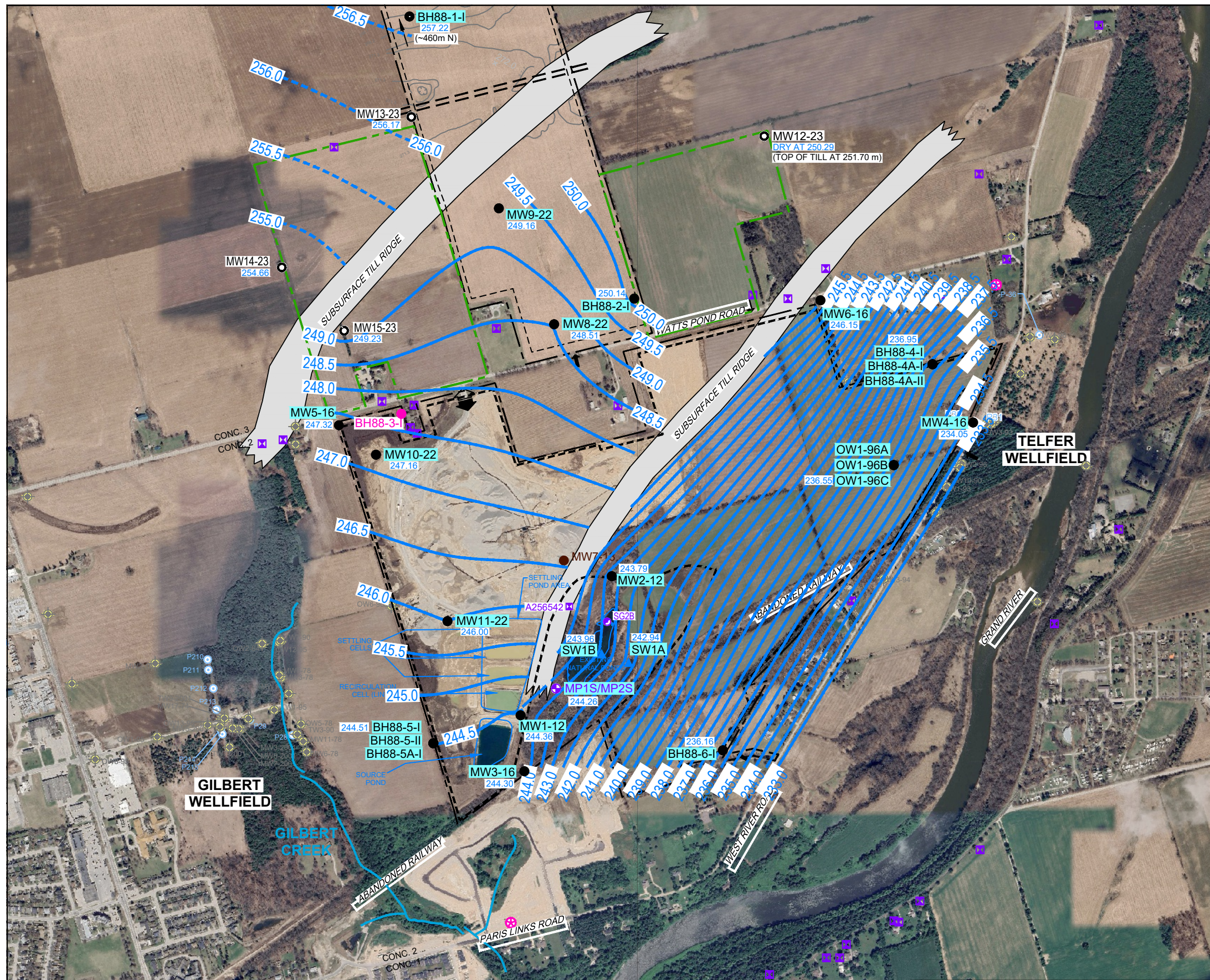


DUFFERIN AGGREGATES PARIS PIT
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**GROUNDWATER HYDROGRAPH
 BEDROCK**

Project No. 078410-20
 Date January 21, 2026

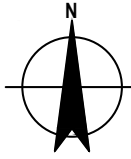
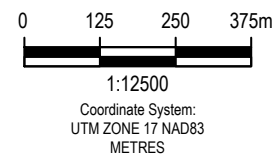
FIGURE 4.3



- LEGEND**
- 253.0 — GROUND SURFACE ELEVATION CONTOUR (mAMS) - DECEMBER 14, 2023
 - LICENSED BOUNDARY
 - - - LIMIT OF EXTRACTION
 - - - EASEMENT
 - ↔ SITE ENTRANCE/EXIT
 - EXISTING FIELD ENTRANCE
 - SPOT ELEVATION
 - MW1-12 MONITORING WELL INCLUDED IN THE GROUNDWATER MONITORING NETWORK
 - ▲ SW1A SURFACE WATER LOCATION INCLUDED IN THE SURFACE WATER MONITORING NETWORK
 - MP1S PIEZOMETER (NESTED AS SHALLOW AND DEEP) INCLUDED IN THE MONITORING NETWORK
 - BH88-3-I MONITORING WELL WAS DESTROYED
 - MW7-18 MONITORING WELL INSTALLED IN 2018
 - SG2B STAFF GAUGE
 - 234.05 GROUNDWATER ELEVATION (MAY 2025) (mAMS)
 - 235.5 — GROUNDWATER CONTOUR (mAMS)
 - (1) GROUNDWATER ELEVATION NOT INCLUDED IN CONTOURS

WATER WELL RECORD (WWR) PRIMARY USE

- ⊗ DOMESTIC WATER SUPPLY WELL (APPROXIMATE LOCATION)
- MUNICIPAL MONITORING WELL
- PUBLIC WATER SUPPLY WELL
- IRRIGATION WELL (APPROXIMATE LOCATION)
- LIVESTOCK WELL (APPROXIMATE LOCATION)

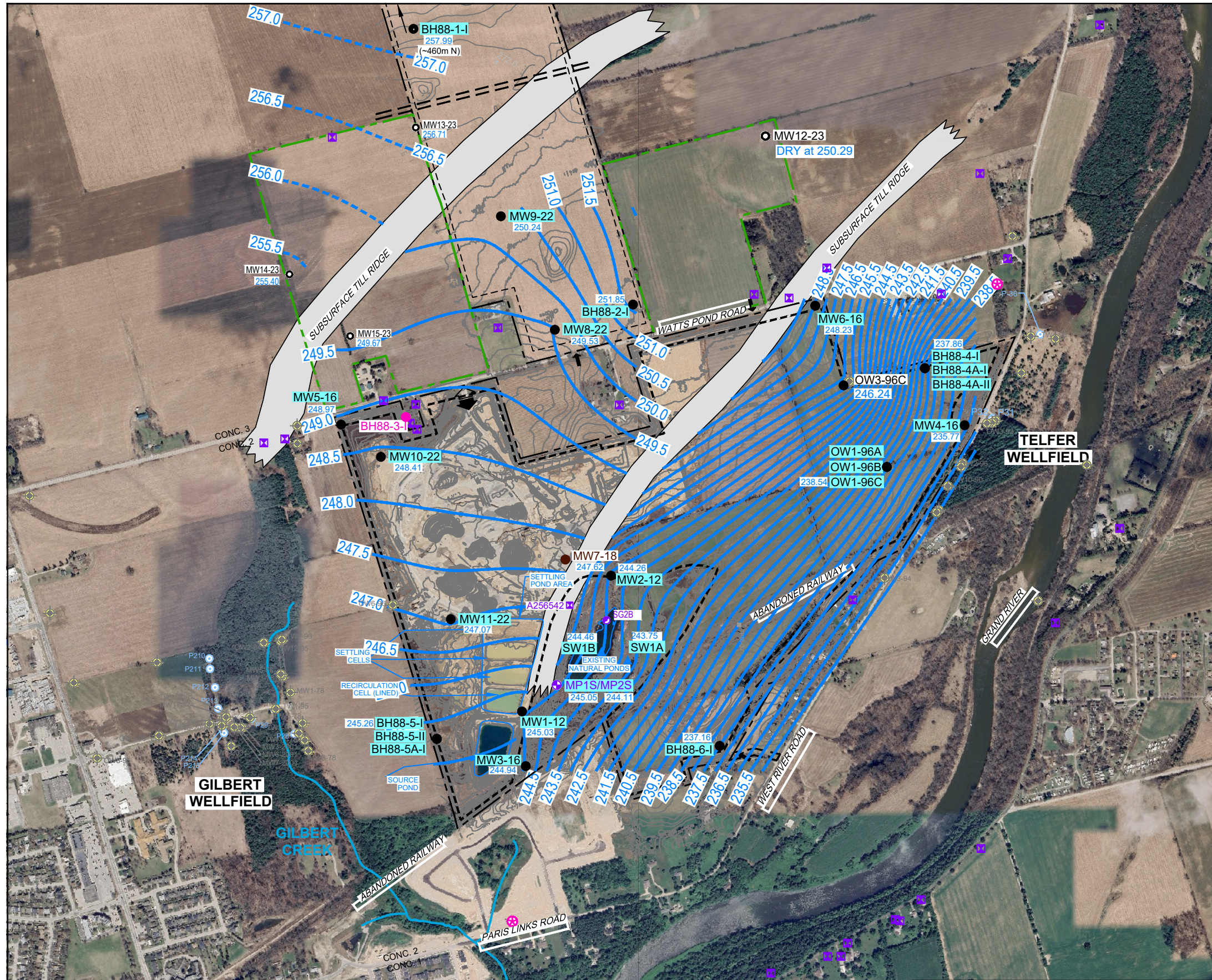


DUFFERIN AGGREGATES PARIS PIT
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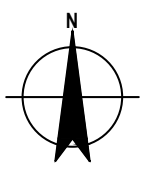
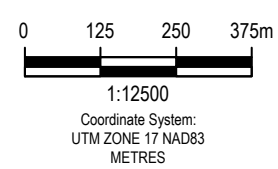
**SITE GROUNDWATER
 ELEVATION CONTOURS MAY 2025**

FIGURE 4.4



- LEGEND**
- 253.0 — GROUND SURFACE ELEVATION CONTOUR (mAMSLL) - DECEMBER 14, 2023
 - LICENSED BOUNDARY
 - LIMIT OF EXTRACTION
 - EASEMENT
 - SITE ENTRANCE/EXIT
 - EXISTING FIELD ENTRANCE
 - SPOT ELEVATION
 - MW1-12 MONITORING WELL INCLUDED IN THE GROUNDWATER MONITORING NETWORK
 - SW1A SURFACE WATER LOCATION INCLUDED IN THE SURFACE WATER MONITORING NETWORK
 - MP1S PIEZOMETER (NESTED AS SHALLOW AND DEEP) INCLUDED IN THE MONITORING NETWORK
 - BH88-3-I MONITORING WELL WAS DESTROYED
 - MW7-18 MONITORING WELL INSTALLED IN 2018
 - SG2B STAFF GAUGE
 - 233.64 MAXIMUM OBSERVED GROUNDWATER ELEVATION (mAMSLL)
 - 235— MAXIMUM WATER TABLE CONTOUR (mAMSLL)

- WATER WELL RECORD (WWR) PRIMARY USE**
- DOMESTIC WATER SUPPLY WELL (APPROXIMATE LOCATION)
 - MUNICIPAL MONITORING WELL
 - PUBLIC WATER SUPPLY WELL
 - IRRIGATION WELL (APPROXIMATE LOCATION)
 - LIVESTOCK WELL (APPROXIMATE LOCATION)

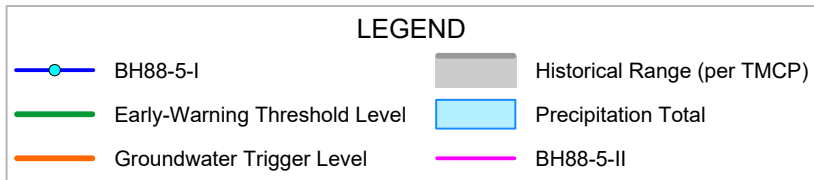
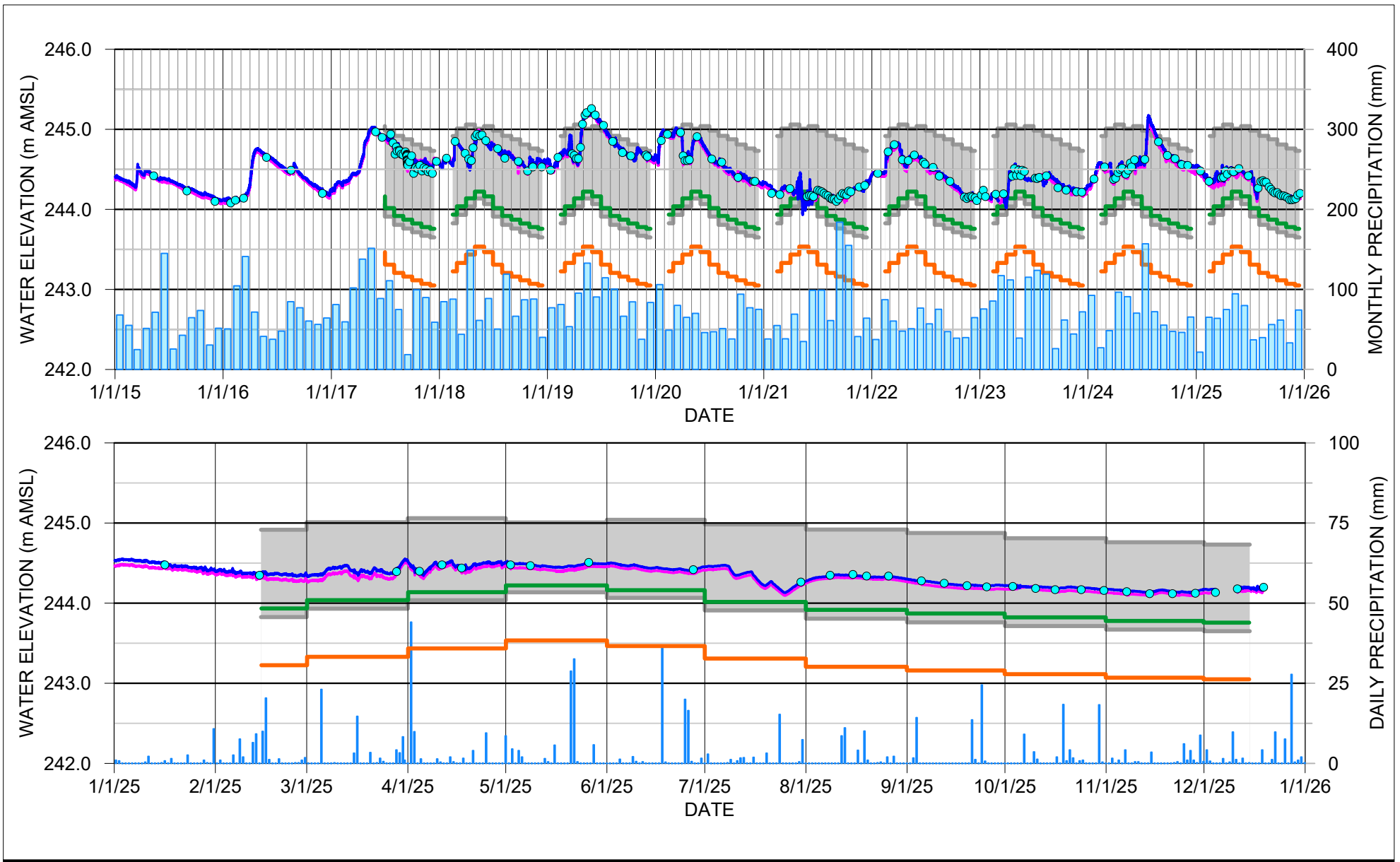


DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

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**SITE MAXIMUM HISTORICAL
 GROUNDWATER ELEVATIONS**

FIGURE 4.5

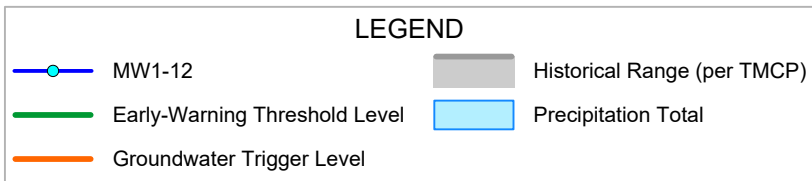
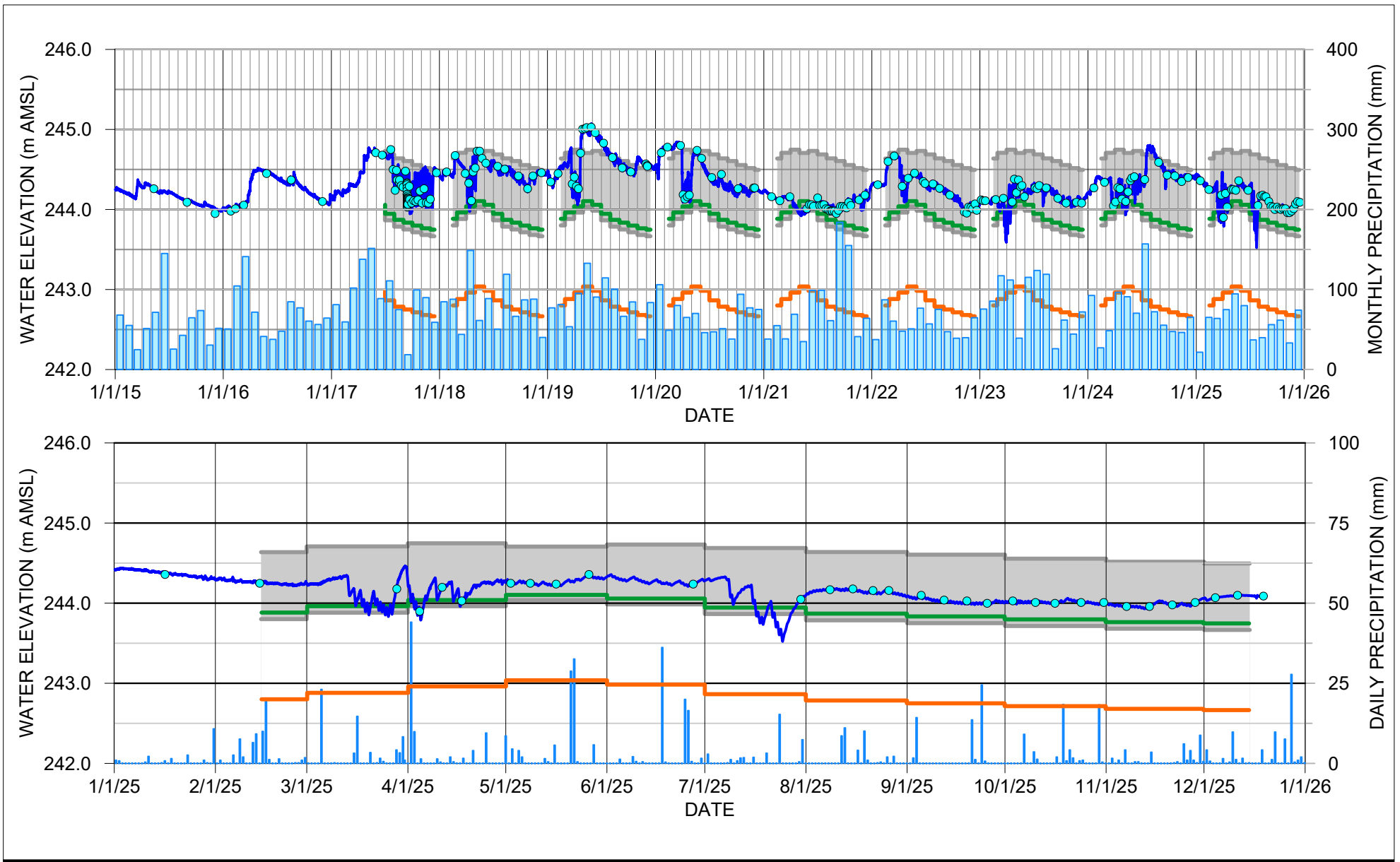


DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

Project No. 078410-20
 Date January 22, 2026

TRIGGER MECHANISM SUMMARY
 BH88-5-I

FIGURE 4.6a

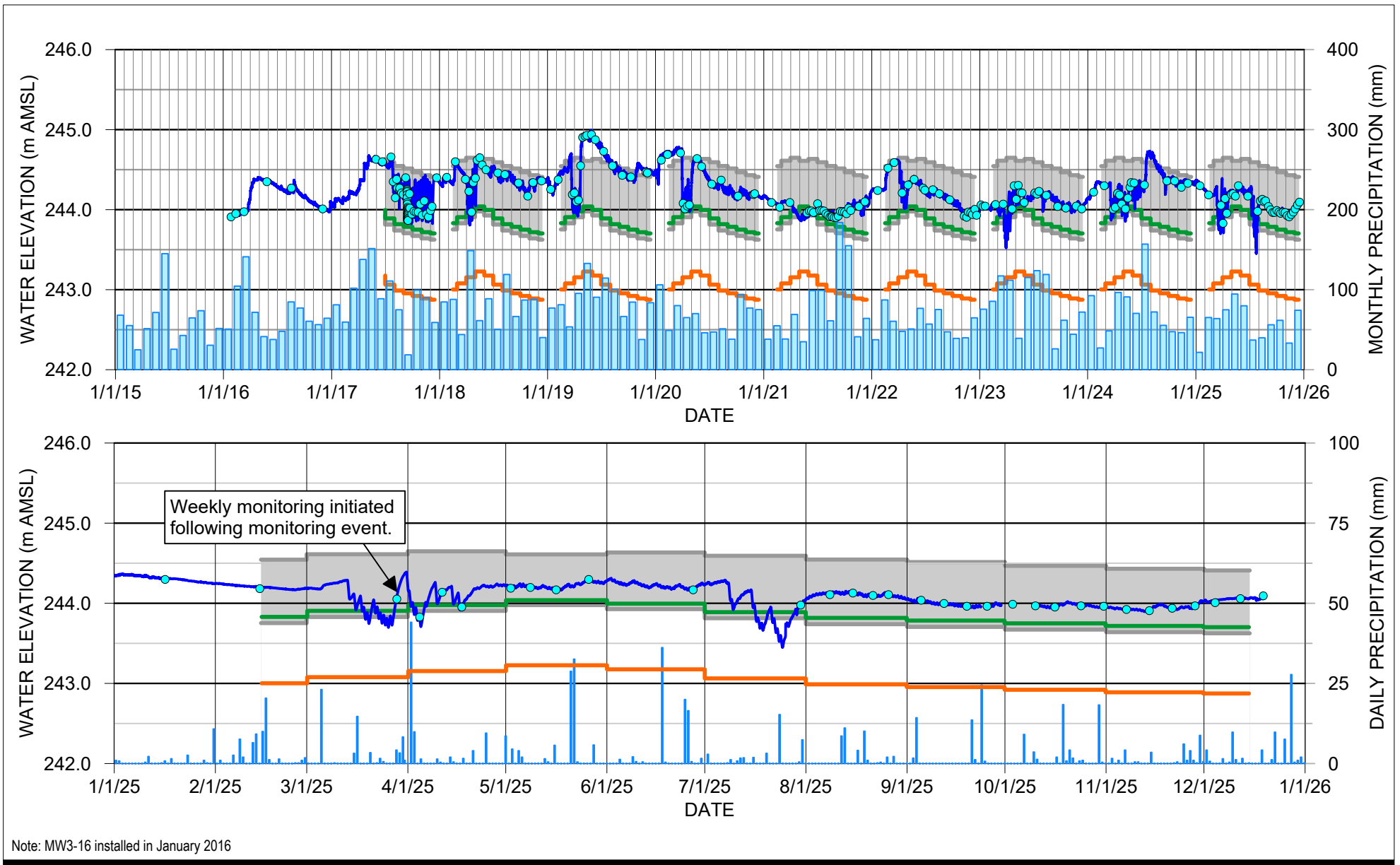


DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

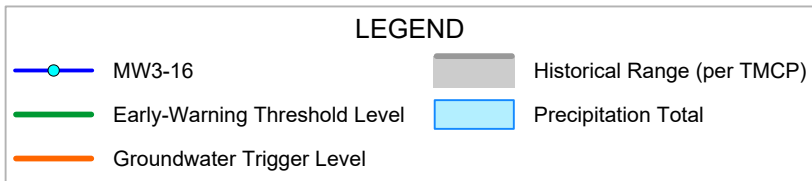
Project No. 078410-20
 Date January 13, 2026

TRIGGER MECHANISM SUMMARY
 MW1-12

FIGURE 4.6b



Note: MW3-16 installed in January 2016

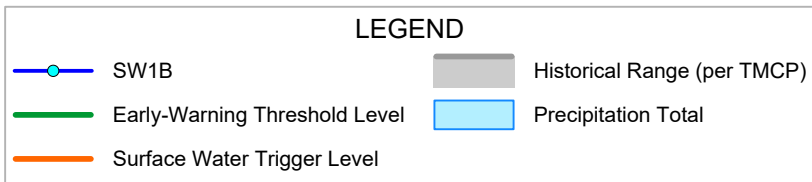
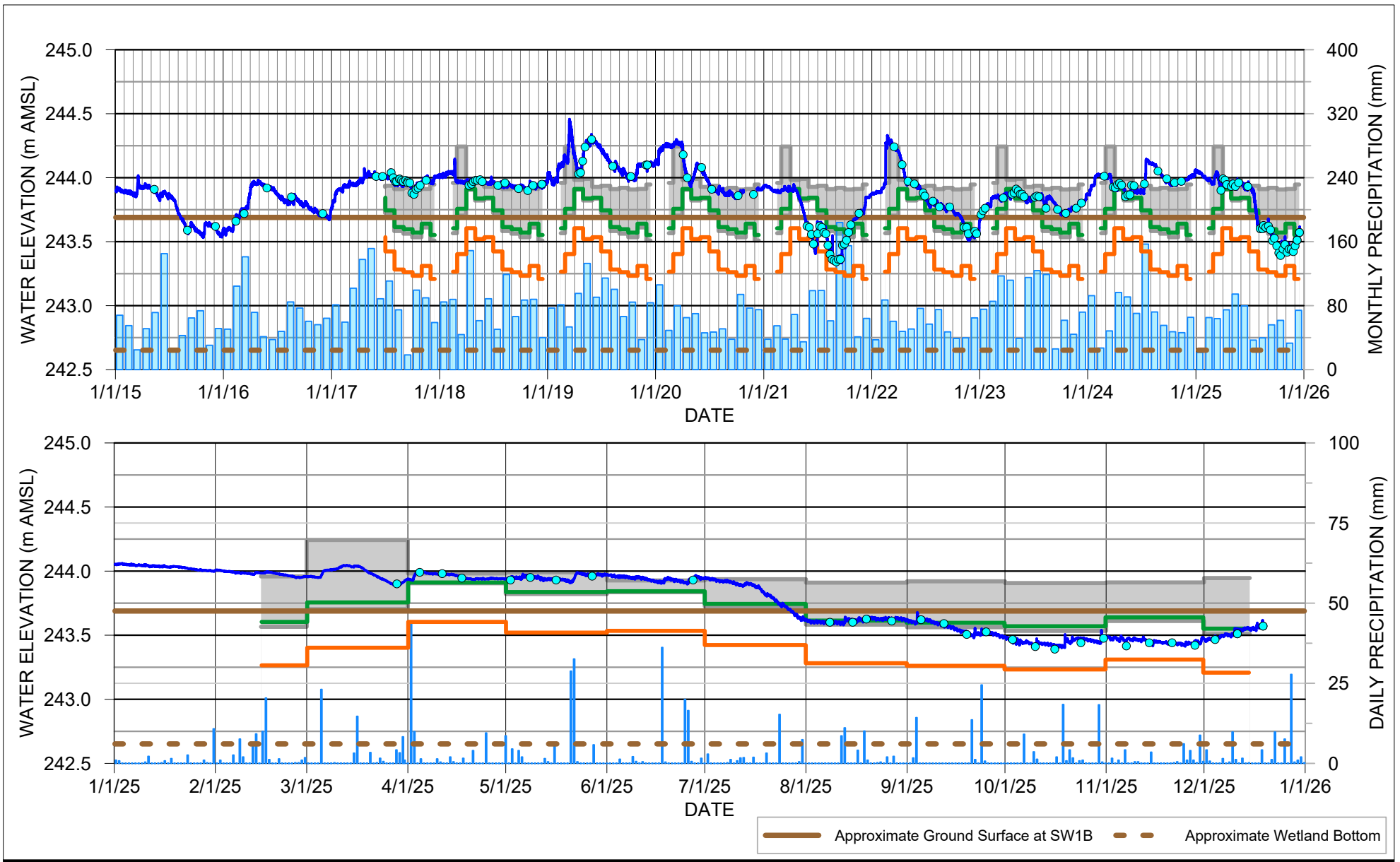


DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

Project No. 078410-20
 Date January 13, 2026

TRIGGER MECHANISM SUMMARY
 MW3-16

FIGURE 4.6c



DUFFERIN AGGREGATES PARIS PIT
 COUNTY OF BRANT, ONTARIO
 2025 COMBINED ANNUAL MONITORING REPORT

Project No. 078410-20
 Date January 13, 2026

**TRIGGER MECHANISM SUMMARY
 SW1B**

FIGURE 4.6d

Tables

Table 1.1
Monitoring Well Completion Details
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Monitoring Location	Easting	Northing	Completion Date	Ground Surface Elevation (m AMSL)	Top of Riser Reference Elevation (m AMSL)	Borehole Completion Depth (m bgs)	Borehole Completion Elevation (m AMSL)	Screened Interval (m bgs)			Screened Interval (m AMSL)			Screened Lithology
								Top	-	Bottom	Top	-	Bottom	
BH88-1-I	550356.0	4787344.2	12/6/1988	271.28	272.16	24.10	247.18	18.30	-	19.82	252.98	-	251.46	Fine Sandy Silt
BH88-2-I	551201.9	4786061.5	12/5/1988	261.38	262.78	21.90	239.48	9.70	-	11.22	251.68	-	250.16	Sand & Gravel
BH88-3-I ⁽¹⁾	550506.4	4785718.6	11/28/1988	254.45	254.76	15.90	238.55	10.80	-	11.60	243.65	-	242.85	Sand & Gravel
BH88-4-I	552093.9	4785866.3	12/1/1988	250.39	251.76	21.30	229.09	16.78	-	18.30	233.61	-	232.09	Sand
BH88-4A-I	552093.9	4785866.3	10/31/1990	250.39	251.47	35.60	214.79	33.80	-	35.20	216.59	-	215.19	Gravel & Bedrock
BH88-4A-II	552093.9	4785866.3	10/31/1990	250.39	251.50	28.00	222.39	25.10	-	26.60	225.29	-	223.79	Sand & Gravel
BH88-5-I	550602.2	4784729.1	11/23/1988	253.78	255.15	22.90	230.88	16.50	-	17.00	237.28	-	236.78	Sand & Gravel
BH88-5-II	550602.6	4784727.6	11/23/1988	253.78	254.77	14.81	238.97	10.10	-	10.90	243.68	-	242.88	Sand & Gravel
BH88-5A-I	550601.3	4784732.5	10/30/1990	253.78	255.08	33.20	220.58	30.50	-	32.00	223.28	-	221.78	Till & Bedrock
BH88-6-I	551466.6	4784711.6	11/30/1988	239.84	240.91	16.20	223.64	6.90	-	7.90	232.94	-	231.94	Sand & Gravel
MW1-12	550862.3	4784816.3	7/20/2012	253.34	254.25	16.46	236.88	12.80	-	15.85	240.54	-	237.49	Sand
MW2-12	551134.7	4785232.0	7/23/2012	244.36	245.31	5.33	239.03	2.74	-	4.27	241.62	-	240.09	Sand & Gravel
MW3-16	550873.7	4784649.2	1/14/2016	248.38	249.43	17.68	230.70	6.10	-	9.14	242.28	-	239.24	Sand & Gravel
MW4-16	552215.7	4785691.7	1/18/2016	243.37	244.39	17.68	225.69	11.58	-	14.63	231.79	-	228.74	Sand
MW5-16	550307.8	4785694.2	1/19/2016	252.70	253.69	12.19	240.51	9.14	-	12.19	243.56	-	240.51	Sand
MW6-16	551758.8	4786057.5	1/15/2016	250.47	251.42	11.43	239.04	8.23	-	11.28	242.24	-	239.19	Sand
MW7-18 ⁽²⁾	550994.8	4785280.9	4/24/2018	256.56	255.85	13.72	242.84	8.99	-	13.56	247.57	-	243.00	Sand & Gravel
MW8-22	550962.5	4785984.6	1/6/2022	259.55	260.385	15.24	244.30	9.14	-	12.19	250.40	-	247.35	Sand & Gravel
MW9-22	550797.6	4786331.0	1/7/2022	258.42	259.122	18.29	240.13	13.11	-	16.15	245.32	-	242.27	Sand & Gravel
MW10-22	550430.3	4785595.1	1/10/2022	249.26	250.041	13.72	235.55	9.14	-	12.19	240.12	-	237.07	Sand & Gravel
MW11-22	550643.8	4785097.6	1/11/2022	246.98	247.840	12.19	234.78	7.62	-	10.67	239.35	-	236.31	Sand & Gravel
MW12-23	551607.0	4786577.8	3/30/2023	259.32	260.26	18.29	241.04	5.91	-	8.97	253.41	-	250.35	Sand & Gravel
MW13-23	550536.3	4786604.2	3/29/2023	272.15	273.00	21.34	250.81	15.74	-	18.79	256.41	-	253.36	Sand & Gravel
MW14-23	550149.4	4786154.5	3/28/2023	269.79	270.74	18.29	251.50	13.72	-	16.77	256.07	-	253.02	Sand & Gravel
MW15-23	550335.4	4785965.4	3/27/2023	258.83	259.74	21.34	237.49	6.66	-	9.71	252.17	-	249.12	Sand & Gravel
MP1S	550967.9	4784896.1	5/26/2016	244.32	245.93	2.45	241.87	1.69	-	2.45	242.63	-	241.87	Sand & Gravel
MP1D	550967.4	4784896.2	5/26/2016	244.40	245.41	4.21	240.19	3.45	-	4.21	240.95	-	240.19	Sand & Gravel
MP2S	550967.4	4784896.2	11/9/2017	244.25	245.20	1.53	242.72	0.78	-	1.53	243.47	-	242.72	Sand & Gravel
OW1-96A	551977.9	4785564.5	1996	249.22	249.73	36.80	212.42	33.6	-	36.6	215.62	-	212.62	Bedrock
OW1-96B	551977.9	4785564.5	1996	249.23	249.72	25.26	223.97	23.6	-	25.1	225.63	-	224.13	Overburden (Int)
OW1-96C	551977.9	4785564.5	1996	249.24	249.70	16.43	232.81	14.6	-	16.1	234.64	-	233.14	Overburden (Upp)

Notes:

- (1) Monitoring well has been destroyed
- (2) Location decommissioned in November 2022 prior to extraction
- NA Location not surveyed
- m AMSL Metres above mean sea level
- m bgs Metres below ground surface

**2025 Monitoring Program
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Monitoring Locations	PTTW ⁽¹⁾	ECA ⁽²⁾	ARA ⁽³⁾	Pressure Transducer	TMCP Water Level Monitoring ⁽¹⁾	Manual Water Level Monitoring ⁽⁴⁾	Sampling Frequency	Field Parameters	General Chemistry	Dissolved Metals	Total Metals	Pesticides & Herbicides
BH88-1-I			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-2-I		X	X	X ⁽³⁾		X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
BH88-4-I			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-4A-I			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-4A-II			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-5-I	X		X	X ^(1,3)	X	X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-5-II			X	X ^(1,3)	X	X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-5A-I			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
BH88-6-I		X	X	X ⁽³⁾		X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW1-12	X	X	X	X ^(1,3)	X	X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW2-12			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
MW3-16	X	X	X	X ^(1,3)	X	X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW4-16		X	X	X ⁽³⁾		X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW5-16		X	X	X ⁽³⁾		X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW6-16		X	X	X ⁽³⁾		X	3/year ^(2,4)		X ^(2,3)	X ^(2,3)		X ⁽²⁾
MW8-22			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
MW9-22			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
MW10-22			X	X ⁽³⁾		X						
MW11-22			X	X ⁽³⁾		X	3/year ⁽⁴⁾		X ⁽³⁾	X ⁽³⁾		
MW12-23				X ⁽⁶⁾		X ⁽⁶⁾						
MW13-23				X ⁽⁶⁾		X ⁽⁶⁾						
MW14-23				X ⁽⁶⁾		X ⁽⁶⁾						
MW15-23				X ⁽⁶⁾		X ⁽⁶⁾						
OW1-96A ⁽⁵⁾				X		X						
OW1-96B ⁽⁵⁾				X		X						
OW1-96C ⁽⁵⁾				X		X						
MP1S	X			X ⁽¹⁾	X	X						
MP2S	X			X ⁽¹⁾	X	X						
SW1A	X		X	X ^(1,3)		X						
SW1B	X	X	X	X ^(1,3)	X	X	3/year ^(2,4)	X ^(2,3)	X ^(2,3)		X ^(2,3)	X ⁽²⁾
SG2B ⁽⁶⁾				X		X						
BWT Area 1 ⁽⁷⁾			X	X ⁽³⁾		X						
BWT Area 2 ⁽⁷⁾			X	X ⁽³⁾		X						
Recirculation Cell		X					2/year ⁽²⁾		X ⁽²⁾		X ⁽²⁾	X ⁽²⁾

Notes:

General Chemistry:	Conductivity, pH, Hardness (as CaCO3), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Alkalinity - Bicarbonate (as CaCO3), Alkalinity - Carbonate (as CaCO3), Alkalinity - Hydroxide (as CaCO3), Total - Alkalinity (as CaCO3), Chloride, Nitrate-N, Nitrite-N, Nitrate & Nitrite (as N), Phosphate-P (ortho), Sulphate, Anion Sum, Cation Sum, Cation - Anion Balance, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Turbidity. Includes oil and grease for surface water samples only.
Field Parameters:	pH, Temperature
Metals:	Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Silicon (total and dissolved), Silver, Sodium, Strontium, Thallium, Tin, Titanium, Tungsten, Uranium, Vanadium, Zinc, Zirconium.

- (1) Requirement of Permit to Take Water No. 7481-C4BQTA (PTTW).
- (2) Requirement of Environmental Compliance Approval No. 3994-CCDR8L (ECA).
- (3) Aggregate Resource Act (ARA) license Groundwater Monitoring Program (i.e., locations not monitored as part of PTTW or ECA requirements)
- (4) Groundwater and surface water monitoring/sampling will be completed in May, August and December every year.
- (5) Included as part of the Monitoring Program at the request of the MECP and County of Brant.
- (6) Supplemental monitoring proactively completed on-Site.
- (7) Below water table (BWT) area hydraulic monitoring to be completed during extraction below the water table.

Table 4.1
2025 Water Elevation Data
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Location: Date	BH88-1-I	BH88-2-I	BH88-4A-I	BH88-4A-II	BH88-4-I	BH88-5A-I	BH88-5-I	BH88-5-II	BH88-6-I	MW1-12	MW2-12	MW3-16	MW4-16	MW5-16	MW6-16	MW8-22	MW9-22	MW10-22	MW11-22	MW12-23	MW13-23	MW14-23	MW15-23	OW1-96A	OW1-96B	OW1-96C	SW1A	SW1B	SG2B	MP1-S	MP2-S	
2025-01-16	--	--	--	--	--	--	244.48	244.45	--	244.36	--	244.30	--	247.22	--	--	--	--	--	--	--	--	--	--	--	--	--	Frozen	244.02	244.28	244.23	
2025-02-14	--	--	--	--	--	--	244.35	244.33	--	244.25	--	244.19	--	246.94	--	--	--	--	--	--	--	--	--	--	--	--	--	Frozen	Frozen	244.21	244.18	
2025-03-28	--	--	--	--	--	--	244.40	244.36	--	244.18	--	244.06	--	247.12	--	--	--	--	--	--	--	--	--	--	--	--	--	243.90	243.92	--	--	
2025-04-04	--	--	--	--	--	--	244.40	244.37	--	243.90	--	243.83	--	247.21	--	--	--	--	--	--	--	--	--	--	--	--	--	243.99	244.00	--	--	
2025-04-11	--	--	--	--	--	--	244.48	244.46	--	244.20	--	244.14	--	247.32	--	--	--	--	--	--	--	--	--	--	--	--	--	243.98	243.97	--	--	
2025-04-17	--	--	--	--	--	--	244.44	244.42	--	244.03	--	243.96	--	247.35	--	--	--	--	--	--	--	--	--	--	--	--	--	243.95	243.95	--	--	
2025-04-25	--	--	--	--	--	--	--	244.49	--	244.26	--	244.21	--	247.37	--	--	--	--	--	--	--	--	--	--	--	--	--	243.93	243.93	--	--	
2025-05-02	--	--	233.28	236.95	--	235.45	244.48	244.45	--	244.25	--	244.19	--	247.35	--	--	--	--	--	--	--	--	--	229.89	--	--	--	243.93	243.95	--	--	
2025-05-08	--	--	--	--	--	234.28	244.47	244.43	--	244.25	--	244.20	--	247.33	--	--	--	--	--	--	--	--	--	--	--	--	--	243.95	243.95	--	--	
2025-05-13	--	--	233.23	236.89	--	234.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	229.79	--	--	--	--	--	--	--	
2025-05-16	--	--	--	--	--	--	--	--	--	244.24	--	244.17	--	247.31	--	--	--	--	--	--	--	--	--	--	--	--	--	243.93	243.93	--	--	
2025-05-26	257.22	--	--	--	--	234.59	244.51	244.48	236.16	244.36	243.79	244.30	--	247.32	246.16	248.51	249.16	247.16	246.00	Dry	256.17	254.67	249.23	229.80	230.41	236.56	--	--	--	244.26	244.18	
2025-05-27	--	250.14	233.17	236.83	236.95	--	--	--	--	--	--	234.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	242.94	243.96	243.96	--	--	
2025-06-27	--	--	--	--	--	--	244.42	244.39	--	244.24	--	244.17	--	247.22	--	--	--	--	--	--	--	--	--	--	--	--	--	243.93	243.92	--	--	
2025-07-30	--	--	--	--	--	--	244.27	244.25	--	244.05	--	243.98	--	247.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	243.58	243.58	243.94	243.96
2025-08-08	--	--	--	--	--	--	244.35	244.32	--	244.17	--	244.11	--	247.11	--	--	--	--	--	--	--	--	--	--	--	--	--	243.60	243.61	--	--	
2025-08-15	--	--	--	--	--	--	244.36	244.34	--	244.18	--	244.13	--	247.09	--	--	--	--	--	--	--	--	--	--	--	--	--	243.60	243.64	244.12	244.09	
2025-08-19	--	--	--	--	--	--	244.34	244.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	243.63	243.65	244.09	244.06	
2025-08-21	--	--	--	--	--	--	--	--	--	244.16	--	244.10	--	247.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2025-08-26	257.15	--	232.94	236.47	236.68	234.31	244.34	244.30	235.60	244.16	243.01	244.11	233.46	247.03	245.77	--	--	--	245.70	--	--	--	--	--	--	--	--	--	--	--	--	
2025-08-27	--	249.63	--	--	--	--	--	--	--	--	--	--	--	--	--	248.24	248.96	246.85	--	Dry	256.10	254.64	249.16	229.63	230.28	235.75	242.80	243.61	243.65	244.07	244.03	
2025-09-05	--	--	--	--	--	--	244.28	244.25	--	244.10	--	244.04	--	246.98	--	--	--	--	--	--	--	--	--	--	--	--	--	243.62	243.63	--	--	
2025-09-12	--	--	232.92	236.42	--	234.05	244.25	244.22	--	244.04	--	244.00	--	246.95	--	--	--	--	--	--	--	--	--	--	--	--	--	243.59	243.59	243.97	243.98	
2025-09-19	--	--	--	--	--	--	244.22	244.19	--	244.03	--	243.97	--	246.90	--	--	--	--	--	--	--	--	--	--	--	--	--	243.51	243.55	243.99	243.97	
2025-09-24	--	--	232.86	236.39	--	234.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	229.57	--	--	--	--	--	--	--	
2025-09-25	--	--	232.89	236.05	--	234.29	244.21	244.18	--	244.00	--	243.97	--	246.87	--	--	--	--	--	--	--	--	--	229.60	--	--	--	--	--	--	--	
2025-09-26	--	--	232.90	236.38	--	234.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	229.65	--	--	--	243.53	243.55	244.07	244.07	
2025-09-27	--	--	232.91	236.39	--	234.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	229.66	--	--	--	--	--	--	--	
2025-09-27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	229.62	--	--	--	--	--	--	--	
2025-10-03	--	--	232.79	236.32	--	234.45	244.21	244.19	--	244.03	--	243.99	--	246.83	--	--	--	--	--	--	--	--	--	229.44	--	--	--	243.47	243.49	244.00	243.94	
2025-10-10	--	--	--	--	--	--	244.19	244.16	--	244.01	--	243.97	--	246.78	--	--	--	--	--	--	--	--	--	--	--	--	--	243.41	243.46	243.98	243.96	
2025-10-16	--	--	--	--	--	--	244.17	244.14	--	244.00	--	243.96	--	246.75	--	--	--	--	--	--	--	--	--	--	--	--	--	243.39	243.44	243.96	243.94	
2025-10-24	--	--	--	--	--	--	244.17	244.15	--	244.01	--	243.97	--	246.70	--	--	--	--	--	--	--	--	--	--	--	--	--	243.44	243.48	244.01	243.99	
2025-10-31	--	--	--	--	--	--	244.16	244.14	--	244.01	--	243.97	--	246.67	--	--	--	--	--	--	--	--	--	--	--	--	--	243.48	243.49	244.07	244.05	
2025-11-07	--	--	--	--	--	--	244.15	244.12	--	243.96	--	243.93	--	246.64	--	--	--	--	--	--	--	--	--	--	--	--	--	243.42	243.48	243.95	243.94	
2025-11-14	--	--	--	--	--	--	244.12	244.09	--	243.96	--	243.91	--	246.59	--	--	--	--	--	--	--	--	--	--	--	--	--	243.44	243.46	243.96	243.93	
2025-11-21	--	--	--	--	--	--	244.12	244.10	--	243.98	--	243.94	--	246.55	--	--	--	--	--	--	--	--	--	--	--	--	--	243.44	243.45	243.98	243.96	
2025-11-28	--	--	--	--	--	--	244.13	244.10	--	244.01	--	243.97	--	246.52	--	--	--	--	--	--	--	--	--	--	--	--	--	243.42	243.50	244.00	243.97	
2025-12-04	--	--	--	--	--	--	244.14	244.11	--	244.07	--	244.01	--	246.46	--	--	--	--	--	--	--	--	--	--	--	--	--	243.47	243.52	244.03	244.00	
2025-12-11	--	249.46	232.44	236.01	236.36	234.60	244.18	244.14	--	244.10	242.86	--	233.01	--	--	247.93	248.63	--	245.30	--	--	--	--	228.76	229.75	235.30	242.73	243.51	243.53	244.06	244.03	
2025-12-12	256.76	--	--	--	--	--	--	--	235.22	--	--	244.06	--	246.44	245.35	--	--	246.28	--	--	--	--	--	--	--	--	--	--	--	--	--	
2025-12-19	--	--	--	--	--	--	244.20	244.17	--	244.09	--	244.10	--	246.40	--	--	--	--	--	--	--	--	--	--	--	--	--	243.57	243.58	244.08	244.12	

Notes:
 All elevations shown are in meters above mean sea level (m AMSL)
 -- No measurement recorded on indicated date

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Jan/Feb 2025	--	--	--	No taking occurred.
Saturday, March 01 2025	0.0	0	0	-
Sunday, March 02 2025	0.0	0	0	-
Monday, March 03 2025	0.0	0	0	-
Tuesday, March 04 2025	0.0	0	0	-
Wednesday, March 05 2025	0.0	0	0	-
Thursday, March 06 2025	0.0	0	0	-
Friday, March 07 2025	0.0	0	0	-
Saturday, March 08 2025	0.0	0	0	-
Sunday, March 09 2025	0.0	0	0	-
Monday, March 10 2025	0.0	0	0	-
Tuesday, March 11 2025	0.0	0	0	-
Wednesday, March 12 2025	0.0	0	0	-
Thursday, March 13 2025	11.9	9,967	7,116,552	- Large Pump
Friday, March 14 2025	0.0	0	0	-
Saturday, March 15 2025	11.9	9,914	7,078,698	- Large Pump
Sunday, March 16 2025	0.0	0	0	-
Monday, March 17 2025	12.0	9,989	7,192,260	- Large Pump
Tuesday, March 18 2025	12.0	9,884	7,116,552	- Large Pump
Wednesday, March 19 2025	11.9	9,596	6,851,574	- Large Pump
Thursday, March 20 2025	0.0	0	0	-
Friday, March 21 2025	11.9	9,808	7,002,990	- Large Pump
Saturday, March 22 2025	11.9	9,437	6,738,012	-
Sunday, March 23 2025	12.0	9,043	6,510,888	-
Monday, March 24 2025	11.9	9,119	6,510,888	- Large Pump
Tuesday, March 25 2025	11.9	9,119	6,510,888	- Large Pump
Wednesday, March 26 2025	12.0	8,990	6,473,034	- Large Pump
Thursday, March 27 2025	0.0	0	0	-
Friday, March 28 2025	0.0	0	0	-
Saturday, March 29 2025	0.0	0	0	-
Sunday, March 30 2025	0.0	0	0	-
Monday, March 31 2025	11.9	9,278	6,624,450	- Large Pump
Tuesday, April 01 2025	11.9	9,278	6,624,450	- Large Pump
Wednesday, April 02 2025	12.0	9,043	6,510,888	- Large Pump
Thursday, April 03 2025	11.9	9,172	6,548,742	- Large Pump
Friday, April 04 2025	11.9	9,119	6,510,888	- Large Pump
Saturday, April 05 2025	0.0	0	0	-
Sunday, April 06 2025	12.0	3,365	2,422,656	-
Monday, April 07 2025	0.0	0	0	-
Tuesday, April 08 2025	0.0	0	0	-
Wednesday, April 09 2025	12.0	9,989	7,192,260	- Large Pump
Thursday, April 10 2025	0.0	0	0	-
Friday, April 11 2025	11.8	1,390	984,204	-
Saturday, April 12 2025	11.9	1,378	984,204	-
Sunday, April 13 2025	11.9	1,272	908,496	-
Monday, April 14 2025	11.9	9,384	6,700,158	- Large Pump
Tuesday, April 15 2025	0.0	0	0	-
Wednesday, April 16 2025	11.9	8,960	6,397,326	- Large Pump
Thursday, April 17 2025	11.9	1,166	832,788	-
Friday, April 18 2025	11.8	1,230	870,642	-
Saturday, April 19 2025	11.9	1,166	832,788	-
Sunday, April 20 2025	0.0	0	0	-
Monday, April 21 2025	11.9	1,166	832,788	-
Tuesday, April 22 2025	11.0	1,377	908,496	-
Wednesday, April 23 2025	6.6	1,243	492,102	-

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Thursday, April 24 2025	12.0	1,314	946,350	-
Friday, April 25 2025	11.9	1,325	946,350	-
Saturday, April 26 2025	11.9	1,325	946,350	-
Sunday, April 27 2025	0.0	0	0	-
Monday, April 28 2025	11.8	1,283	908,496	-
Tuesday, April 29 2025	9.2	1,303	719,226	-
Wednesday, April 30 2025	11.9	1,219	870,642	-
Thursday, May 01 2025	11.9	1,378	984,204	-
Friday, May 02 2025	11.9	1,378	984,204	-
Saturday, May 03 2025	11.8	1,390	984,204	-
Sunday, May 04 2025	0.0	0	0	-
Monday, May 05 2025	11.9	1,378	984,204	-
Tuesday, May 06 2025	11.9	1,272	908,496	-
Wednesday, May 07 2025	11.8	1,390	984,204	-
Thursday, May 08 2025	11.9	1,325	946,350	-
Friday, May 09 2025	11.9	1,272	908,496	-
Saturday, May 10 2025	11.8	1,337	946,350	-
Sunday, May 11 2025	0.0	0	0	-
Monday, May 12 2025	11.9	1,378	984,204	-
Tuesday, May 13 2025	11.9	1,378	984,204	-
Wednesday, May 14 2025	11.8	1,390	984,204	-
Thursday, May 15 2025	11.9	1,219	870,642	-
Friday, May 16 2025	11.9	1,378	984,204	-
Saturday, May 17 2025	11.9	1,272	908,496	-
Sunday, May 18 2025	0.0	0	0	-
Monday, May 19 2025	0.0	0	0	-
Tuesday, May 20 2025	11.8	1,283	908,496	-
Wednesday, May 21 2025	11.9	1,219	870,642	-
Thursday, May 22 2025	11.9	1,325	946,350	-
Friday, May 23 2025	11.9	1,378	984,204	-
Saturday, May 24 2025	0.0	0	0	-
Sunday, May 25 2025	0.0	0	0	-
Monday, May 26 2025	11.8	1,337	946,350	-
Tuesday, May 27 2025	11.9	1,378	984,204	-
Wednesday, May 28 2025	11.9	1,272	908,496	-
Thursday, May 29 2025	11.8	1,230	870,642	-
Friday, May 30 2025	11.9	1,272	908,496	-
Saturday, May 31 2025	0.0	0	0	-
Sunday, June 01 2025	0.0	0	0	-
Monday, June 02 2025	11.9	1,272	908,496	-
Tuesday, June 03 2025	11.9	1,325	946,350	-
Wednesday, June 04 2025	11.8	1,230	870,642	-
Thursday, June 05 2025	11.9	1,272	908,496	-
Friday, June 06 2025	11.9	1,272	908,496	-
Saturday, June 07 2025	0.0	0	0	-
Sunday, June 08 2025	0.0	0	0	-
Monday, June 09 2025	11.9	1,272	908,496	-
Tuesday, June 10 2025	11.8	1,283	908,496	-
Wednesday, June 11 2025	11.9	1,272	908,496	-
Thursday, June 12 2025	11.9	1,272	908,496	-
Friday, June 13 2025	11.8	1,283	908,496	-
Saturday, June 14 2025	0.0	0	0	-
Sunday, June 15 2025	0.0	0	0	-
Monday, June 16 2025	11.9	1,272	908,496	-
Tuesday, June 17 2025	11.9	1,272	908,496	-

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Wednesday, June 18 2025	11.8	1,337	946,350	-
Thursday, June 19 2025	11.9	1,272	908,496	-
Friday, June 20 2025	11.9	1,272	908,496	-
Saturday, June 21 2025	0.0	0	0	-
Sunday, June 22 2025	0.0	0	0	-
Monday, June 23 2025	11.9	1,325	946,350	-
Tuesday, June 24 2025	11.9	1,272	908,496	-
Wednesday, June 25 2025	11.8	1,337	946,350	-
Thursday, June 26 2025	11.9	1,272	908,496	-
Friday, June 27 2025	11.9	1,325	946,350	-
Saturday, June 28 2025	11.9	1,272	908,496	-
Sunday, June 29 2025	0.0	0	0	-
Monday, June 30 2025	0.0	0	0	-
Tuesday, July 01 2025	0.0	0	0	-
Wednesday, July 02 2025	11.9	1,325	946,350	-
Thursday, July 03 2025	0.0	0	0	-
Friday, July 04 2025	0.0	0	0	-
Saturday, July 05 2025	0.0	0	0	-
Sunday, July 06 2025	0.0	0	0	-
Monday, July 07 2025	11.8	1,337	946,350	-
Tuesday, July 08 2025	12.0	8,622	6,208,056	- Large Pump
Wednesday, July 09 2025	8.0	8,833	4,239,648	- Large Pump
Thursday, July 10 2025	11.9	1,219	870,642	-
Friday, July 11 2025	11.9	1,272	908,496	-
Saturday, July 12 2025	11.8	1,390	984,204	-
Sunday, July 13 2025	11.9	1,325	946,350	-
Monday, July 14 2025	12.0	1,314	946,350	-
Tuesday, July 15 2025	12.0	9,358	6,738,012	- Large Pump
Wednesday, July 16 2025	11.9	9,225	6,586,596	- Large Pump
Thursday, July 17 2025	12.0	7,991	5,753,808	- Large Pump
Friday, July 18 2025	11.7	5,878	4,126,086	- Large Pump
Saturday, July 19 2025	11.9	1,272	908,496	-
Sunday, July 20 2025	11.9	1,007	719,226	-
Monday, July 21 2025	11.9	8,907	6,359,472	- Large Pump
Tuesday, July 22 2025	12.0	8,938	6,435,180	- Large Pump
Wednesday, July 23 2025	11.9	9,013	6,435,180	- Large Pump
Thursday, July 24 2025	11.9	8,907	6,359,472	- Large Pump
Friday, July 25 2025	11.9	1,219	870,642	-
Saturday, July 26 2025	11.8	1,123	794,934	-
Sunday, July 27 2025	11.9	1,219	870,642	-
Monday, July 28 2025	11.9	1,272	908,496	-
Tuesday, July 29 2025	11.9	1,272	908,496	-
Wednesday, July 30 2025	11.8	1,230	870,642	-
Thursday, July 31 2025	11.9	1,272	908,496	-
Friday, August 01 2025	11.9	1,272	908,496	-
Saturday, August 02 2025	11.9	1,272	908,496	-
Sunday, August 03 2025	11.8	1,283	908,496	-
Monday, August 04 2025	11.9	1,166	832,788	-
Tuesday, August 05 2025	11.9	1,113	794,934	-
Wednesday, August 06 2025	11.9	1,219	870,642	-
Thursday, August 07 2025	11.8	1,337	946,350	-
Friday, August 08 2025	11.9	1,272	908,496	-
Saturday, August 09 2025	11.9	1,272	908,496	-
Sunday, August 10 2025	11.9	1,272	908,496	-
Monday, August 11 2025	11.8	1,283	908,496	-

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Tuesday, August 12 2025	11.9	1,219	870,642	-
Wednesday, August 13 2025	11.9	1,325	946,350	-
Thursday, August 14 2025	11.9	1,325	946,350	-
Friday, August 15 2025	11.9	1,325	946,350	-
Saturday, August 16 2025	11.8	1,337	946,350	-
Sunday, August 17 2025	11.9	1,325	946,350	-
Monday, August 18 2025	11.9	1,325	946,350	-
Tuesday, August 19 2025	11.8	1,283	908,496	-
Wednesday, August 20 2025	11.9	1,378	984,204	-
Thursday, August 21 2025	11.9	1,325	946,350	-
Friday, August 22 2025	11.8	1,337	946,350	-
Saturday, August 23 2025	11.9	1,272	908,496	-
Sunday, August 24 2025	0.0	0	0	-
Monday, August 25 2025	11.9	1,325	946,350	-
Tuesday, August 26 2025	11.8	1,337	946,350	-
Wednesday, August 27 2025	11.9	1,325	946,350	-
Thursday, August 28 2025	11.9	1,325	946,350	-
Friday, August 29 2025	11.8	1,337	946,350	-
Saturday, August 30 2025	11.9	1,378	984,204	-
Sunday, August 31 2025	11.9	1,378	984,204	-
Monday, September 01 2025	11.9	1,325	946,350	-
Tuesday, September 02 2025	11.8	1,390	984,204	-
Wednesday, September 03 2025	11.9	1,378	984,204	-
Thursday, September 04 2025	10.1	1,374	832,788	-
Friday, September 05 2025	11.9	1,378	984,204	-
Saturday, September 06 2025	11.8	1,390	984,204	-
Sunday, September 07 2025	11.9	1,272	908,496	-
Monday, September 08 2025	11.9	1,325	946,350	-
Tuesday, September 09 2025	11.9	1,325	946,350	-
Wednesday, September 10 2025	11.8	1,390	984,204	-
Thursday, September 11 2025	11.9	1,272	908,496	-
Friday, September 12 2025	11.9	1,378	984,204	-
Saturday, September 13 2025	11.9	1,325	946,350	-
Sunday, September 14 2025	11.8	1,390	984,204	-
Monday, September 15 2025	11.9	1,378	984,204	-
Tuesday, September 16 2025	11.9	1,378	984,204	-
Wednesday, September 17 2025	11.8	1,337	946,350	-
Thursday, September 18 2025	11.9	1,378	984,204	-
Friday, September 19 2025	11.9	1,378	984,204	-
Saturday, September 20 2025	11.9	1,378	984,204	-
Sunday, September 21 2025	11.8	1,337	946,350	-
Monday, September 22 2025	11.9	1,325	946,350	-
Tuesday, September 23 2025	11.9	1,325	946,350	-
Wednesday, September 24 2025	11.9	1,378	984,204	-
Thursday, September 25 2025	11.8	1,390	984,204	-
Friday, September 26 2025	11.9	1,378	984,204	-
Saturday, September 27 2025	5.3	1,309	416,394	-
Sunday, September 28 2025	11.8	1,283	908,496	-
Monday, September 29 2025	11.6	1,305	908,496	-
Tuesday, September 30 2025	11.9	1,378	984,204	-
Wednesday, October 01 2025	11.8	1,283	908,496	-
Thursday, October 02 2025	11.9	1,272	908,496	-
Friday, October 03 2025	11.9	1,272	908,496	-
Saturday, October 04 2025	11.8	1,283	908,496	-
Sunday, October 05 2025	11.9	1,272	908,496	-

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Monday, October 06 2025	11.9	1,272	908,496	-
Tuesday, October 07 2025	11.9	1,272	908,496	-
Wednesday, October 08 2025	11.8	1,283	908,496	-
Thursday, October 09 2025	11.9	1,166	832,788	-
Friday, October 10 2025	11.9	1,166	832,788	-
Saturday, October 11 2025	11.8	1,176	832,788	-
Sunday, October 12 2025	11.9	1,166	832,788	-
Monday, October 13 2025	11.9	1,325	946,350	-
Tuesday, October 14 2025	11.8	1,337	946,350	-
Wednesday, October 15 2025	11.9	1,325	946,350	-
Thursday, October 16 2025	11.9	1,166	832,788	-
Friday, October 17 2025	11.9	1,166	832,788	-
Saturday, October 18 2025	0.0	0	0	-
Sunday, October 19 2025	0.0	0	0	-
Monday, October 20 2025	11.9	1,219	870,642	-
Tuesday, October 21 2025	11.8	1,176	832,788	-
Wednesday, October 22 2025	11.9	1,219	870,642	-
Thursday, October 23 2025	11.8	1,176	832,788	-
Friday, October 24 2025	11.9	1,166	832,788	-
Saturday, October 25 2025	11.9	1,166	832,788	-
Sunday, October 26 2025	11.9	1,166	832,788	-
Monday, October 27 2025	11.8	1,176	832,788	-
Tuesday, October 28 2025	11.9	1,166	832,788	-
Wednesday, October 29 2025	11.9	1,166	832,788	-
Thursday, October 30 2025	11.8	1,230	870,642	-
Friday, October 31 2025	11.9	1,272	908,496	-
Saturday, November 01 2025	11.9	1,272	908,496	-
Sunday, November 02 2025	11.9	1,272	908,496	-
Monday, November 03 2025	11.8	1,283	908,496	-
Tuesday, November 04 2025	11.9	1,219	870,642	-
Wednesday, November 05 2025	11.8	1,283	908,496	-
Thursday, November 06 2025	11.9	1,272	908,496	-
Friday, November 07 2025	11.9	1,219	870,642	-
Saturday, November 08 2025	11.8	1,283	908,496	-
Sunday, November 09 2025	11.9	1,272	908,496	-
Monday, November 10 2025	11.9	1,272	908,496	-
Tuesday, November 11 2025	11.8	1,337	946,350	-
Wednesday, November 12 2025	11.9	1,325	946,350	-
Thursday, November 13 2025	11.9	1,378	984,204	-
Friday, November 14 2025	0.0	0	0	-
Saturday, November 15 2025	10.7	413	264,978	-
Sunday, November 16 2025	0.0	0	0	-
Monday, November 17 2025	6.7	1,130	454,248	-
Tuesday, November 18 2025	11.9	1,272	908,496	-
Wednesday, November 19 2025	11.8	1,230	870,642	-
Thursday, November 20 2025	11.9	1,219	870,642	-
Friday, November 21 2025	11.9	1,272	908,496	-
Saturday, November 22 2025	11.8	1,230	870,642	-
Sunday, November 23 2025	0.0	0	0	-
Monday, November 24 2025	11.9	1,272	908,496	-
Tuesday, November 25 2025	11.9	1,219	870,642	-
Wednesday, November 26 2025	0.0	0	0	-
Thursday, November 27 2025	0.0	0	0	-
Friday, November 28 2025	0.0	0	0	-
Saturday, November 29 2025	0.0	0	0	-

**2025 Water Taking
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Date	Hours of Taking (hrs)	Rate of Taking (Lpm)	Amount of Taking (Lpd)	Comments
Sunday, November 30 2025	11.8	1,230	870,642	-
Monday, December 01 2025	11.9	1,219	870,642	-
Tuesday, December 02 2025	0.0	0	0	-
Wednesday, December 03 2025	0.0	0	0	-
Thursday, December 04 2025	0.0	0	0	-
Friday, December 05 2025	0.0	0	0	-
Saturday, December 06 2025	0.0	0	0	-
Sunday, December 07 2025	0.0	0	0	-
Monday, December 08 2025	0.0	0	0	-
Tuesday, December 09 2025	0.0	0	0	-
Wednesday, December 10 2025	0.0	0	0	-
Thursday, December 11 2025	0.0	0	0	-
Friday, December 12 2025	0.0	0	0	-
Saturday, December 13 2025	0.0	0	0	-
Sunday, December 14 2025	0.0	0	0	-
Monday, December 15 2025	0.0	0	0	-
Tuesday, December 16 2025	0.0	0	0	-
Wednesday, December 17 2025	0.0	0	0	-
Thursday, December 18 2025	0.0	0	0	-
Friday, December 19 2025	0.0	0	0	-
Saturday, December 20 2025	0.0	0	0	-
Sunday, December 21 2025	0.0	0	0	-
Monday, December 22 2025	0.0	0	0	-
Tuesday, December 23 2025	0.0	0	0	-
Wednesday, December 24 2025	0.0	0	0	-
Thursday, December 25 2025	0.0	0	0	-
Friday, December 26 2025	0.0	0	0	-
Saturday, December 27 2025	0.0	0	0	-
Sunday, December 28 2025	0.0	0	0	-
Monday, December 29 2025	0.0	0	0	-
Tuesday, December 30 2025	0.0	0	0	-
Wednesday, December 31 2025	0.0	0	0	-

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:	BH88-1-I	BH88-1-I	BH88-1-I	BH88-2-I	BH88-2-I	BH88-2-I	BH88-2-I	BH88-4A-I	BH88-4A-I	BH88-4A-I	BH88-4A-II	
Sample ID:	GW-78410-052625-EH-005	GW-78410-082625-EH-014	GW-78410-12122025-EH-009	GW-78410-052725-EH-011	GW-78410-082725-EH-020	GW-78410-121125-EH-012	GW-78410-052725-EH-009	GW-78410-082625-EH-010	GW-78410-12122025-EH-008	GW-78410-052725-EH-008		
Sample Date:	5/26/2025	8/26/2025	12/12/2025	5/27/2025	8/27/2025	12/11/2025	5/27/2025	8/26/2025	12/12/2025	5/27/2025		
Parameters	Units	ODWQS										
Field Parameters												
Conductivity, field	µS/cm	-	673	1050	952	577	521	537	670	1010	950	654
Dissolved oxygen (DO), field	mg/L	-	8.52	4.6	6.07	8.31	5.87	10.09	5.22	4.56	10.05	7.2
Oxidation reduction potential (ORP), field	millivolts	-	62	-36	235	196	135	128	216	-45	241	206
pH, field	s.u.	6.5-8.5	7.59	7.59	7.28	7.73	7.61	7.74	7.47	7.64	7.24	7.39
Temperature, field	Deg C	-	11.41	10.12	9.75	12.37	14.29	4.55	11.97	10.85	8.85	13.14
Turbidity, field	NTU	-	0	0	7.2 ^b	2.6	20.6 ^b	24.4 ^b	0	0	7.9 ^b	254 ^b
General Chemistry												
Alkalinity, bicarbonate	mg/L	-	260	242	209	253	246	233	249	217	195	255
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO ₃)	mg/L	500	260	242	209	253	246	233	249	217	195	255
Anion sum	meq	-	7.08	6.70	6.12	6.15	5.84	5.66	6.83	6.08	5.71	7.00
Anion/Cation ratio	%	-	0.28	5.96	9.27	1.52	3.07	4.71	2.98	8.30	11.3	1.20
Cation sum	meq	-	7.12	7.55	7.37	6.34	6.21	6.22	7.25	7.18	7.16	7.17
Chloride (dissolved)	mg/L	250	19.1	19.0	20.2	7.70	7.05	7.80	26.3	22.9	23.9	27.8
Conductivity	µS/cm	-	665	655	590	598	536	528	679	605	549	667
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	ND (0.50)	1.57 J	0.58	0.76	1.80 J	0.81	ND (0.50)	0.50	0.89	1.45
Hardness	mg/L	100	346	367	357	311	304	305	336	336	336	337
Nitrate (as N)	mg/L	10	12.9	12.8 J+	13.2	8.21	5.17	4.96	10.1	9.88 J+	10.1	9.62
Nitrite (as N)	mg/L	1	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)
Nitrite/Nitrate	mg/L	-	12.9	12.8	13.2	8.21	5.17	4.96	10.1	9.88	10.1	9.62
Orthophosphate (dissolved)	mg/L	-	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	0.0059	0.0088	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
pH, lab	s.u.	6.5-8.5	8.19	7.94	7.95	8.02	7.95	8.28	7.97	8.28	7.93	7.77
Sulfate (dissolved)	mg/L	500	20.5	20.1	20.8	14.2	16.9	20.4	18.9	18.8	20.1	20.8
Total dissolved solids (TDS)	mg/L	500	357	418 J	418	322	297 J	308	388	374 J	398	386
Total organic carbon (TOC)	mg/L	-	0.63	0.85 J	0.87	0.83	1.24 J	0.95	0.66	0.99	0.66	1.62
Total suspended solids (TSS)	mg/L	-	3.4	3.7 J	5.3	ND (3.0)	11.1	3.8	ND (3.0)	ND (3.0) J	ND (3.0)	277
Turbidity	NTU	-	0.65	0.39 J	1.75 J+	1.52	2.08 J	2.81	0.48	0.55	ND (1.20)	103

Notes:

ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).

- Not analyzed.

ND (##) Not detected at the associated reporting limit shown in brackets

J Estimated concentration

J+ The result is an estimated quantity, but the result may be biased high.

µS/cm MicroSiemens per centimetre

µmhos/cm Micromhos per centimetre

mg/L Milligram per litre

meq Milliequivalents

NTU Nephelometric turbidity units

(1) Erroneous field reading

336 Concentration shown is above the respective ODWQS

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:	BH88-4A-II	BH88-4A-II	BH88-4-I	BH88-4-I	BH88-4-I	BH88-5A-I	BH88-5A-I	BH88-5A-I	BH88-5-I	BH88-5-I		
Sample ID:	GW-78410-082625-EH-011	GW-78410-11122025-EH-007	GW-78410-052725-EH-010	GW-78410-082625-EH-012	GW-78410-11122025-EH-006	GW-78410-052625-EH-001	GW-78410-082625-EH-009	GW-78410-121125-EH-003	GW-78410-052625-EH-002	GW-78410-082625-EH-007		
Sample Date:	8/26/2025	12/11/2025	5/27/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025		
Parameters	Units	ODWQS										
Field Parameters												
Conductivity, field	µS/cm	-	1020	963	679	1010	938	1050	1590	1060	646	996
Dissolved oxygen (DO), field	mg/L	-	4.2	5.87	4.41	5.4	6.36	4.48	0	2.8	6.09	4.26
Oxidation reduction potential (ORP), field	millivolts	-	-38	295	221	-43	301	4	-218	-31	154	-87
pH, field	s.u.	6.5-8.5	7.68	7.44	7.41	7.81	7.31	7.51	7.03	7.36	7.74	7.17
Temperature, field	Deg C	-	10.48	8.47	11.81	11.46	8.71	12.21	10.31	8.36	12.17	10.16
Turbidity, field	NTU	-	284 ^b	1000 ^b	0	0.6	60 ^b	1000 ^b	19.4 ^b	169 ^b	2.1	0
General Chemistry												
Alkalinity, bicarbonate	mg/L	-	263	285	247	250	229	679	205	200	241	217
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO ₃)	mg/L	500	263	285	247	250	229	679	205	200	241	217
Anion sum	meq	-	7.12	7.62	6.90	6.74	6.29	21.6	11.9	12.2	6.56	6.04
Anion/Cation ratio	%	-	1.18	-0.26	2.61	3.37	7.97	-28.6	1.65	3.17	2.16	9.44
Cation sum	meq	-	7.29	7.58	7.27	7.21	7.38	12.0	12.3	13.0	6.85	7.30
Chloride (dissolved)	mg/L	250	26.4	26.1	28.9	21.1	18.7	25.9	25.8	27.1	21.7	21.3
Conductivity	µS/cm	-	625	610	684	659	600	1050	1110	1040	624	618
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	ND (0.50)	0.51	0.50	1.48	0.59	ND (0.50)	ND (0.50)	ND (0.50)	0.62	0.96
Hardness	mg/L	100	344	357	336	333	341	589	602	638	325	345
Nitrate (as N)	mg/L	10	9.70 J+	10.2	11.0	11.0 J+	11.1	ND (0.100)	ND (0.100)	ND (0.100)	8.24	8.19
Nitrite (as N)	mg/L	1	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.010)	ND (0.010)
Nitrite/Nitrate	mg/L	-	9.70	10.2	11.0	11.0	11.1	ND (0.112)	ND (0.112)	ND (0.11)	8.24	8.19
Orthophosphate (dissolved)	mg/L	-	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
pH, lab	s.u.	6.5-8.5	7.72	7.76	7.96	8.01	7.76	7.96	7.80	7.82	8.04	7.84
Sulfate (dissolved)	mg/L	500	20.4	22.3	17.7	17.5	18.9	350	341	358	26.0	25.0
Total dissolved solids (TDS)	mg/L	500	416 J	420	384	375 J	382	738	732 J	761	350	386 J
Total organic carbon (TOC)	mg/L	-	ND (5.00)	2.86	0.52	1.20	ND (0.50)	2.52	1.16	1.06	0.60	0.96
Total suspended solids (TSS)	mg/L	-	1570 J	2430	ND (3.0)	42.7 J	ND (3.0)	11700	8.7 J	64.1	ND (3.0)	ND (3.0) J
Turbidity	NTU	-	233	852	1.46	0.55	ND (0.10)	4000	6.90	54.9	0.49	0.25

Notes:

ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).

- Not analyzed.

ND (##) Not detected at the associated reporting limit shown in brackets

J Estimated concentration

J+ The result is an estimated quantity, but the result may be biased high.

µS/cm MicroSiemens per centimetre

µmhos/cm Micromhos per centimetre

mg/L Milligram per litre

meq Milliequivalents

NTU Nephelometric turbidity units

(1) Erroneous field reading

336 Concentration shown is above the respective ODWQS

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:	BH88-5-I	BH88-5-II	BH88-5-II	BH88-5-II	BH88-6-I	BH88-6-I	BH88-6-I	MW1-12	MW1-12	MW1-12		
Sample ID:	GW-78410-121125-EH-001	GW-78410-052625-EH-003	GW-78410-082625-EH-008	GW-78410-121125-EH-002	GW-78410-052625-CD-015	GW-78410-082625-CD-006	GW-78410-12122025-EH-019	GW-78410-052625-CL-017	GW-78410-082625-EH-003	GW-78410-121125-EH-010		
Sample Date:	12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	12/12/2025	5/26/2025	8/26/2025	12/11/2025		
Parameters	Units	ODWQS										
Field Parameters												
Conductivity, field	µS/cm	-	656	653	1010	659	681	408	1010	563	571	617
Dissolved oxygen (DO), field	mg/L	-	8.64	8.36	4.32	13.07	4.68	1.85	2.6	8.24	5.55	8.71
Oxidation reduction potential (ORP), field	millivolts	-	151	175	-105	151	-1	-23	-27	288	272	130
pH, field	s.u.	6.5-8.5	7.24	7.66	7.42	7.38	8.15	4.34 (1)	7	-	7.62	7.53
Temperature, field	Deg C	-	8.21	11.67	9.98	8.31	12.54	20.98 ^b	9.5	14.26	14.73	10.54
Turbidity, field	NTU	-	15.2 ^b	4.6	0	9 ^b	0	3.7	5.9 ^b	2.4	0	1.3
General Chemistry												
Alkalinity, bicarbonate	mg/L	-	246	245	188	250	329	313	271	185	175	199
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO ₃)	mg/L	500	246	245	188	250	329	313	271	185	175	199
Anion sum	meq	-	6.71	6.64	5.47	6.78	7.41	7.00	6.14	5.83	5.68	6.29
Anion/Cation ratio	%	-	5.49	1.48	14.1	5.31	0.20	4.57	12.7	-0.60	2.57	4.55
Cation sum	meq	-	7.49	6.84	7.26	7.54	7.44	7.67	7.92	5.76	5.98	6.89
Chloride (dissolved)	mg/L	250	22.0	21.6	21.4	21.7	22.0	22.0	22.4	42.6	44.2	45.5
Conductivity	µS/cm	-	644	623	539	629	658	672	575	560	572	619
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	ND (0.50)	ND (0.50)	0.79	0.56	1.68 J	2.56 J	0.54	1.51 J	1.55	0.73
Hardness	mg/L	100	354	324	344	356	360	370	376	261	267	310
Nitrate (as N)	mg/L	10	8.75	8.28	8.29	8.80	0.941	0.772 J+	0.678	6.12	5.86 J+	6.19
Nitrite (as N)	mg/L	1	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)
Nitrite/Nitrate	mg/L	-	8.75	8.28	8.29	8.80	0.941	0.772	0.678	6.12	5.86	6.19
Orthophosphate (dissolved)	mg/L	-	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	0.0036
pH, lab	s.u.	6.5-8.5	7.98	7.98	8.01	7.97	8.15	7.99	8.03	8.25	8.22	8.12
Sulfate (dissolved)	mg/L	500	26.2	26.0	25.0	26.0	7.15	3.51	2.10	23.8	24.8	28.1
Total dissolved solids (TDS)	mg/L	500	379	341	376 J	368	352	355 J	382	308	339 J	352
Total organic carbon (TOC)	mg/L	-	1.07	0.80	0.97	0.76	0.59 J	1.03 J	0.86	0.73 J	1.07	0.84
Total suspended solids (TSS)	mg/L	-	ND (3.0)	11.0	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)
Turbidity	NTU	-	0.20	3.45	0.41	0.41	0.94	7.21	13.3	0.41	0.38	0.11

Notes:

- ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).
- Not analyzed.
- ND (##) Not detected at the associated reporting limit shown in brackets
- J Estimated concentration
- J+ The result is an estimated quantity, but the result may be biased high.
- µS/cm MicroSiemens per centimetre
- µmhos/cm Micromhos per centimetre
- mg/L Milligram per litre
- meq Milliequivalents
- NTU Nephelometric turbidity units
- (1) Erroneous field reading

336 Concentration shown is above the respective ODWQS

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:		MW1-12	MW2-12	MW2-12	MW2-12	MW3-16	MW3-16	MW3-16	MW3-16	MW3-16	MW3-16	MW4-16
Sample ID:		GW-78410-121125-EH-011	GW-78410-052625-CL-018	GW-78410-082625-EH-017	GW-78410-11122025-EH-005	GW-78410-052625-CL-016	GW-78410-082625-EH-001	GW-78410-082625-EH-002	GW-78410-12122025-EH-016	GW-78410-12122025-EH-017	GW-78410-052725-EH-019	
Sample Date:		12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	8/26/2025	12/12/2025	12/12/2025	5/27/2025	
Parameters	Units	ODWQS	Duplicate					Duplicate		Duplicate		
Field Parameters												
Conductivity, field	µS/cm	-	617	1010	1700	1090	571	565	565	791	791	613
Dissolved oxygen (DO), field	mg/L	-	8.71	5.64	2.45	3.81	7.41	5.12	5.12	0.49	0.49	7.8
Oxidation reduction potential (ORP), field	millivolts	-	130	318	-28	272	254	273	273	245	245	161
pH, field	s.u.	6.5-8.5	7.53	-	7.55	6.69	-	7.56	7.56	7.23	7.23	7.43
Temperature, field	Deg C	-	10.54	9.98	11.99	9.28	11.14	13.25	13.25	9.37	9.37	13.56
Turbidity, field	NTU	-	1.3	14.2 ^P	77.3 ^P	5	0	0	0	0	0	381 ^P
General Chemistry												
Alkalinity, bicarbonate	mg/L	-	197	318	234	283	183	151	183	178	189	287
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO ₃)	mg/L	500	197	318	234	283	186	151	183	178	189	287
Anion sum	meq	-	6.25	10.5	10.4	7.52	5.73	5.16	5.78	5.81	6.01	6.97
Anion/Cation ratio	%	-	4.43	1.41	4.15	5.29	0.52	7.36 J	2.61 J	6.82	4.38	-1.75
Cation sum	meq	-	6.83	10.8	11.3	8.36	5.79	5.98	6.09	6.66	6.56	6.73
Chloride (dissolved)	mg/L	250	45.5	134	174	59.0	38.0	43.6	43.3	42.4	42.2	14.8
Conductivity	µS/cm	-	617	998	1080	653	561	525	582	572	587	622
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	0.53	1.22	1.89 J	0.64	0.85	2.06 J	1.22 J	1.05 J	0.53 J	1.81 J
Hardness	mg/L	100	307	512	405	348	264	270	275	297	293	324
Nitrate (as N)	mg/L	10	6.19	2.40	6.39 J+	0.605	6.47	5.19	5.13 J+	6.98	6.93	8.48
Nitrite (as N)	mg/L	1	ND (0.010)	ND (0.050)	ND (0.050) J	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010)
Nitrite/Nitrate	mg/L	-	6.19	2.40	6.39	0.605	6.47	5.19	5.13	6.98	6.93	8.48
Orthophosphate (dissolved)	mg/L	-	0.0034	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
pH, lab	s.u.	6.5-8.5	8.06	7.76	7.73	7.76	8.33	8.06	8.25	8.07	8.00	8.24
Sulfate (dissolved)	mg/L	500	28.2	10.4	16.9	7.44	22.9	25.9	25.6	26.6	26.4	10.4
Total dissolved solids (TDS)	mg/L	500	346	642	628 J	384	294	355 J	345 J	378	382	352
Total organic carbon (TOC)	mg/L	-	1.08	1.24	1.27 J	1.64	0.58	1.22 J	1.31	0.51 J	0.58	4.02
Total suspended solids (TSS)	mg/L	-	ND (3.0)	8.4	36.3 J	153	ND (3.0)	5.1 J	ND (3.0) J	ND (3.0)	ND (3.0)	7320
Turbidity	NTU	-	ND (0.10)	5.89	26.1 J	155	ND (0.10) J	0.24	0.28	ND (0.10)	ND (0.10)	510

- Notes:
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 - Not analyzed.
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 - J+ The result is an estimated quantity, but the result may be biased high.
 - µS/cm MicroSiemens per centimetre
 - µmhos/cm Micromhos per centimetre
 - mg/L Milligram per litre
 - meq Milliequivalents
 - NTU Nephelometric turbidity units
 - (1) Erroneous field reading
- 336** Concentration shown is above the respective ODWQS

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:			MW4-16	MW4-16	MW4-16	MW5-16	MW5-16	MW5-16	MW5-16	MW5-16	MW6-16	MW6-16	MW6-16
Sample ID:			GW-78410-052725-EH-020	GW-78410-082625-EH-015	GW-78410-121125-EH-013	GW-78410-052625-CD-012	GW-78410-052625-CD-013	GW-78410-082625-CD-013	GW-78410-12122025-EH-018	GW-78410-052625-CD-014	GW-78410-082625-CD-004	GW-78410-082625-CD-005	
Sample Date:			5/27/2025	8/26/2025	12/11/2025	5/26/2025	5/26/2025	8/26/2025	12/12/2025	5/26/2025	8/26/2025	8/26/2025	
Parameters	Units	ODWQS	Duplicate				Duplicate					Duplicate	
Field Parameters													
Conductivity, field	µS/cm	-	613	622	589	663	663	593	802	601	614	614	
Dissolved oxygen (DO), field	mg/L	-	7.8	6.22	10.73	10.57	10.57	5.65	0.18	7.66	5.71	5.71	
Oxidation reduction potential (ORP), field	millivolts	-	161	270	149	127	127	165	223	74	184	184	
pH, field	s.u.	6.5-8.5	7.43	7.59	7.49	-	-	4.44 (1)	7.13	-	4.78 (1)	4.78 (1)	
Temperature, field	Deg C	-	13.56	13.56	6.86	13.16	13.16	14.02	5.91	16.65 ^b	12.25	12.25	
Turbidity, field	NTU	-	381 ^b	142 ^b	88.5 ^b	0	0	0.3	0	0	0	0	
General Chemistry													
Alkalinity, bicarbonate	mg/L	-	280	255	264	250	247	241	205	257	199	202	
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	
Alkalinity, total (as CaCO ₃)	mg/L	500	280	255	264	250	247	241	205	260	199	202	
Anion sum	meq	-	6.83	6.42	6.24	6.55	6.49	6.29	5.67	6.76	5.50	5.56	
Anion/Cation ratio	%	-	-0.37	4.32	5.31	1.43	2.18	3.23	9.42	0.44	12.4	12.0	
Cation sum	meq	-	6.78	7.00	6.94	6.74	6.78	6.71	6.85	6.82	7.06	7.08	
Chloride (dissolved)	mg/L	250	14.8	17.6	11.7	16.3	16.3	15.7	17.0	17.6	17.1	17.1	
Conductivity	µS/cm	-	621	617	579	621	614	617	551	616	534	541	
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	0.60 J	1.48	0.68	0.75 J	1.31 J	1.32	0.62	0.68	1.65 J	0.65 J	
Hardness	mg/L	100	326	340	334	326	328	323	328	328	339	340	
Nitrate (as N)	mg/L	10	8.47	7.81 J+	5.24	10.0	10.0	9.36 J+	9.90	7.91	7.77	7.78	
Nitrite (as N)	mg/L	1	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	
Nitrite/Nitrate	mg/L	-	8.47	7.81	5.24	10.0	10.0	9.36	9.90	7.91	7.77	7.78	
Orthophosphate (dissolved)	mg/L	-	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030) J	0.0234 J	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	
pH, lab	s.u.	6.5-8.5	8.01	8.12	8.02	8.25	8.27	8.08	7.91	8.32	8.03	8.03	
Sulfate (dissolved)	mg/L	500	10.4	13.2	12.3	18.2	18.2	17.3	18.4	24.4	23.4	23.4	
Total dissolved solids (TDS)	mg/L	500	370	362 J	321	323	341	356 J	380	341	363 J	366 J	
Total organic carbon (TOC)	mg/L	-	2.61	1.80	0.97	0.64 J	1.48 J	1.17	0.90	0.54	0.93 J	1.01	
Total suspended solids (TSS)	mg/L	-	5470	1080 J	74.4	ND (3.0)	ND (3.0)	ND (3.0) J	6.5	ND (3.0)	ND (3.0) J	ND (3.0) J	
Turbidity	NTU	-	406	51.4 J	23.3	0.15	0.11	ND (0.10) J	1.59 J+	ND (0.10)	0.18	ND (0.10)	

Notes:

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- Not analyzed.
- ND (##) Not detected at the associated reporting limit shown in brackets
- J Estimated concentration
- J+ The result is an estimated quantity, but the result may be biased high.
- µS/cm MicroSiemens per centimetre
- µmhos/cm Micromhos per centimetre
- mg/L Milligram per litre
- meq Milliequivalents
- NTU Nephelometric turbidity units
- (1) Erroneous field reading

336 Concentration shown is above the respective ODWQS

Table 6.1
2025 Groundwater Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:	MW6-16	MW8-22	MW8-22	MW8-22	MW9-22	MW9-22	MW9-22	MW11-22	MW11-22	MW11-22		
Sample ID:	GW-78410-12122025-EH-020	GW-78410-052625-EH-006	GW-78410-082725-EH-018	GW-78410-121125-EH-014	GW-78410-052625-EH-007	GW-78410-082725-EH-019	GW-78410-121125-EH-015	GW-78410-052625-EH-004	GW-78410-082625-EH-016	GW-78410-11122025-EH-004		
Sample Date:	12/12/2025	5/26/2025	8/27/2025	12/11/2025	5/26/2025	8/27/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025		
Parameters	Units	ODWQS										
Field Parameters												
Conductivity, field	µS/cm	-	632	657	631	695	667	650	694	653	1020	943
Dissolved oxygen (DO), field	mg/L	-	8.86	8.67	3.13	15.07	5.09	3.32	9.67	6.27	4.33	8.75
Oxidation reduction potential (ORP), field	millivolts	-	60	176	139	177	196	151	151	211	12	287
pH, field	s.u.	6.5-8.5	7.49	7.65	7.51	6.75	7.56	7.43	7.57	7.5	7.53	7.17
Temperature, field	Deg C	-	7.08	12.41	11.03	1.95	14.35	10.97	7.5	12.99	10.76	9.47
Turbidity, field	NTU	-	0.2	228 ^b	562 ^b	245 ^b	19.9 ^b	11.7 ^b	34.3 ^b	0	0	5.8 ^b
General Chemistry												
Alkalinity, bicarbonate	mg/L	-	255	247	267	239	250	258	218	238	223	222
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO ₃)	mg/L	500	255	247	267	239	250	258	218	238	223	222
Anion sum	meq	-	6.66	6.90	7.42	6.98	6.89	7.09	6.36	6.60	6.34	6.33
Anion/Cation ratio	%	-	2.13	0.29	-0.95	5.93	1.57	2.81	11.1	2.15	6.56	8.53
Cation sum	meq	-	6.95	6.94	7.28	7.86	7.11	7.50	7.95	6.89	7.23	7.51
Chloride (dissolved)	mg/L	250	17.2	21.9	23.6	24.9	25.0	26.0	26.8	24.8	29.2	28.9
Conductivity	µS/cm	-	628	612	640	622	635	664	612	627	622	639
Dissolved organic carbon (DOC) (dissolved)	mg/L	5	0.62	0.63	0.86	0.84	0.56	0.84	0.61	0.51	1.43	ND (0.50)
Hardness	mg/L	100	333	336	352	379	334	351	372	324	340	350
Nitrate (as N)	mg/L	10	8.12	13.5	14.8	15.4	8.87	9.18	9.49	8.92	8.15 J+	8.21
Nitrite (as N)	mg/L	1	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010) J	ND (0.010)
Nitrite/Nitrate	mg/L	-	8.12	13.5	14.8	15.4	8.87	9.18	9.49	8.92	8.15	8.21
Orthophosphate (dissolved)	mg/L	-	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
pH, lab	s.u.	6.5-8.5	8.07	7.87	7.75	7.75	7.92	8.02	7.85	8.09	7.79	7.93
Sulfate (dissolved)	mg/L	500	24.0	18.5	17.6	19.2	26.8	26.3	27.5	24.4	23.2	23.8
Total dissolved solids (TDS)	mg/L	500	380	384	481	494	356	383	414	352	394 J	374
Total organic carbon (TOC)	mg/L	-	0.61	1.97	6.15	2.05	1.09	1.94	0.84	ND (0.50)	1.08	0.79
Total suspended solids (TSS)	mg/L	-	ND (3.0)	234	500	885	372	15.1	7.9	ND (3.0)	4.3 J	3.4
Turbidity	NTU	-	ND (0.30)	99.9	380 J	575	10.3	3.37 J	0.89	0.22	0.87 J	1.18

- Notes:
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 - Not analyzed.
 - ND (##) Not detected at the associated reporting limit shown in brackets
 - J Estimated concentration
 - J+ The result is an estimated quantity, but the result may be biased high.
 - µS/cm MicroSiemens per centimetre
 - µmhos/cm Micromhos per centimetre
 - mg/L Milligram per litre
 - meq Milliequivalents
 - NTU Nephelometric turbidity units
 - (1) Erroneous field reading
 - 336** Concentration shown is above the respective ODWQS

Table 6.2

2025 Groundwater Analytical Data - Metals
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:	BH88-1-I	BH88-1-I	BH88-1-I	BH88-2-I	BH88-2-I	BH88-2-I	BH88-2-I	BH88-4A-I	BH88-4A-I	BH88-4A-I	BH88-4A-II	BH88-4A-II	BH88-4A-II	
Sample ID:	GW-78410-052625-EH-001	GW-78410-082625-EH-014	GW-78410-12122025-EH-0093W-78410-052725-EH-01	GW-78410-082725-EH-020	GW-78410-121125-EH-012	3W-78410-052725-EH-001	GW-78410-082625-EH-010	GW-78410-12122025-EH-0083W-78410-052725-EH-001	GW-78410-082625-EH-011	GW-78410-11122025-EH-007				
Sample Date:	5/26/2025	8/26/2025	12/12/2025	5/27/2025	8/27/2025	12/11/2025	5/27/2025	8/26/2025	12/12/2025	5/27/2025	8/26/2025	12/11/2025		
Parameters	Units	ODWQS												
Metals														
Aluminum (dissolved)	mg/L	0.1	ND (0.0050)	ND (0.0050)	0.0055	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0192	ND (0.0050)
Antimony (dissolved)	mg/L	0.006	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Arsenic (dissolved)	mg/L	0.01	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00016	0.00018
Barium (dissolved)	mg/L	1	0.160	0.164	0.152	0.0890	0.102	0.0906	0.231	0.249	0.230	0.210	0.233	0.229
Beryllium (dissolved)	mg/L	-	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Bismuth (dissolved)	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)
Boron (dissolved)	mg/L	5	0.012	0.011	0.016	ND (0.010)	ND (0.010)	0.012	0.010	ND (0.010)	0.012	ND (0.010)	ND (0.010)	0.010
Cadmium (dissolved)	mg/L	0.005	0.0000112	0.0000106	0.0000117	0.0000137	0.0000175	0.0000119	ND (0.0000050)	ND (0.0000050)	ND (0.0000050)	ND (0.0000050)	ND (0.0000050)	ND (0.0000050)
Calcium (dissolved)	mg/L	-	93.1	96.6	92.7	84.7	81.2	80.7	88.9	90.2	89.1	88.0	89.6	93.8
Chromium (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Cobalt (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Copper (dissolved)	mg/L	1	0.00024	0.00034	0.00037	0.00041	0.00029	0.00150	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	0.00090	0.00090
Iron (dissolved)	mg/L	0.3	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.015	ND (0.010)
Lead (dissolved)	mg/L	0.01	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Lithium (dissolved)	mg/L	-	0.0028	0.0028	0.0034	0.0016	0.0011	0.0024	0.0035	0.0024	0.0031	0.0038	0.0028	0.0040
Magnesium (dissolved)	mg/L	-	27.7	30.6	30.5	24.2	24.7	25.1	27.7	26.9	27.6	28.4	27.9	29.7
Manganese (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	0.00174	ND (0.00050)	ND (0.00050)	0.00054	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00116	ND (0.00050)
Molybdenum (dissolved)	mg/L	-	0.000241	0.000227	0.000240	0.000137	0.000206	0.000262	0.000258	0.000252	0.000237	0.000411	0.000408	0.000452
Nickel (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Phosphorus (dissolved)	mg/L	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Potassium (dissolved)	mg/L	-	1.56	1.58	1.69	0.866	0.847	0.878	1.29	1.19	1.25	1.24	1.17	1.19
Selenium (dissolved)	mg/L	0.05	0.000264	0.000261	0.000296	0.000119	0.000117	0.000144	ND (0.000500)	0.000397	0.000428	0.000486	0.000417	0.000426
Silicon (dissolved)	mg/L	-	4.98	5.26	5.65	4.41	3.93	4.15	6.10	5.56	6.17	6.05	5.58	5.77
Silicon	mg/L	-	5.14	5.18	5.39	4.29	4.16	4.26	5.68	5.48	5.90	9.42	16.3	27.3
Silver (dissolved)	mg/L	-	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)
Sodium (dissolved)	mg/L	200	3.72	4.02	4.44	2.32	2.34	2.53	11.5	9.99	9.40	9.42	8.92	9.71
Strontium (dissolved)	mg/L	-	0.180	0.186	0.187	0.102	0.107	0.104	0.223	0.217	0.214	0.335	0.333	0.347
Thallium (dissolved)	mg/L	-	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)
Tin (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Titanium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	0.00042	ND (0.00030)
Tungsten (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Uranium (dissolved)	mg/L	0.02	0.000351	0.000355	0.000361	0.000253	0.000289	0.000398	0.000346	0.000346	0.000352	0.000414	0.000419	0.000428
Vanadium (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Zinc (dissolved)	mg/L	5	0.0028	0.0026	0.0029	0.0075	0.0053	0.0064	0.0011	ND (0.0010)	0.0010	0.0018	0.0031	0.0016
Zirconium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)

Notes:
 ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).
 ND (##) Not detected at the associated reporting limit shown in brackets
 J Estimated concentration.
 mg/L Milligram per litre.
0.23 Concentration shown is above the respective ODWQS

Table 6.2

2025 Groundwater Analytical Data - Metals
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:	BH88-4-I	BH88-4-I	BH88-4-I	BH88-5A-I	BH88-5A-I	BH88-5A-I	BH88-5A-I	BH88-5-I	BH88-5-I	BH88-5-I	BH88-5-II	BH88-5-II	BH88-5-II
Sample ID:	GW-78410-052725-EH-01	GW-78410-082625-EH-012	GW-78410-11122025-EH-006	GW-78410-052625-EH-001	GW-78410-082625-EH-009	3W-78410-121125-EH-003	3W-78410-052625-EH-003	GW-78410-082625-EH-007	GW-78410-121125-EH-001	3W-78410-052625-EH-003	GW-78410-082625-EH-008	GW-78410-121125-EH-002	
Sample Date:	5/27/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025	
Parameters	Units	ODWQS											
Metals													
Aluminum (dissolved)	mg/L	0.1	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Antimony (dissolved)	mg/L	0.006	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Arsenic (dissolved)	mg/L	0.01	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00120	0.00053	0.00056	ND (0.00010)	0.00011	0.00010	ND (0.00010)	ND (0.00010)
Barium (dissolved)	mg/L	1	0.228	0.240	0.241	0.0165	0.0134	0.0135	0.187	0.191	0.196	0.185	0.196
Beryllium (dissolved)	mg/L	-	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Bismuth (dissolved)	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)
Boron (dissolved)	mg/L	5	0.010	ND (0.010)	0.039	0.039	0.044	0.010	0.010	0.011	0.010	0.010	0.011
Cadmium (dissolved)	mg/L	0.005	0.000058	ND (0.000050)	ND (0.000050)	0.000056	ND (0.000050)	ND (0.000050)	0.000070	0.0000107	0.0000112	0.0000089	0.0000088
Calcium (dissolved)	mg/L	-	90.0	90.0	91.4	180	182	189	89.7	91.6	94.0	89.3	92.2
Chromium (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00074
Cobalt (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Copper (dissolved)	mg/L	1	ND (0.00020)	0.00023	ND (0.00020)	ND (0.00020)	ND (0.00020)	ND (0.00020)	0.00023	0.00057	0.00026	0.00027	0.00031
Iron (dissolved)	mg/L	0.3	ND (0.010)	ND (0.010)	ND (0.010)	0.376	0.360	0.379	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Lead (dissolved)	mg/L	0.01	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Lithium (dissolved)	mg/L	-	0.0032	0.0024	0.0035	0.0094	0.0093	0.0118	0.0023	0.0028	0.0035	0.0025	0.0029
Magnesium (dissolved)	mg/L	-	27.0	26.4	27.4	34.0	35.9	40.3	24.8	28.3	29.0	24.6	27.6
Manganese (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.0184	0.0101	0.0108	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00092	ND (0.00050)
Molybdenum (dissolved)	mg/L	-	0.000217	0.000216	0.000209	0.00193	0.00181	0.00180	0.000229	0.000228	0.000227	0.000228	0.000243
Nickel (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Phosphorus (dissolved)	mg/L	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Potassium (dissolved)	mg/L	-	1.26	1.18	1.20	1.47	1.41	1.49	1.41	1.46	1.46	1.40	1.44
Selenium (dissolved)	mg/L	0.05	0.000468	0.000492	0.000410	ND (0.000050)	ND (0.000050)	0.000121	0.000270	0.000268	0.000275	0.000290	0.000288
Silicon (dissolved)	mg/L	-	5.86	5.42	5.62	5.94	6.23	6.39	5.09	5.39	5.36	5.03	5.40
Silicon	mg/L	-	5.55	5.26	5.50	60.5	6.48	9.05	5.30	5.34	5.43	5.43	5.28
Silver (dissolved)	mg/L	-	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)
Sodium (dissolved)	mg/L	200	12.1	11.9	12.4	4.88	4.96	5.59	7.62	8.42	8.76	7.57	8.22
Strontium (dissolved)	mg/L	-	0.210	0.204	0.197	5.49	5.36	5.32	0.203	0.204	0.199	0.202	0.203
Thallium (dissolved)	mg/L	-	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)
Tin (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00107	0.00066	0.00055	ND (0.00010)	ND (0.00010)
Titanium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)
Tungsten (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Uranium (dissolved)	mg/L	0.02	0.000319	0.000320	0.000310	0.000081	0.000071	0.000074	0.000338	0.000323	0.000318	0.000340	0.000326
Vanadium (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Zinc (dissolved)	mg/L	5	0.0014	ND (0.0010)	0.0014	ND (0.0010)	0.0034	ND (0.0010)	0.0108	0.0062	0.0050	0.0029	0.0031
Zirconium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)

Notes:
 ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).
 ND (##) Not detected at the associated reporting limit shown in brackets
 J Estimated concentration.
 mg/L Milligram per litre.
0.23 Concentration shown is above the respective ODWQS

Table 6.2

2025 Groundwater Analytical Data - Metals
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:	BH88-6-I	BH88-6-I	BH88-6-I	MW1-12	MW1-12	MW1-12	MW1-12	MW2-12	MW2-12	MW2-12	MW2-12	MW3-16	MW3-16
Sample ID:	GW-78410-052625-CD-01	GW-78410-082625-CD-006	GW-78410-12122025-EH-0193W	GW-78410-052625-CL-013W	GW-78410-082625-EH-00	GW-78410-121125-EH-010	GW-78410-121125-EH-011	GW-78410-052625-CL-018	GW-78410-082625-EH-017	W-78410-11122025-EH-01	GW-78410-052625-CL-016	GW-78410-082625-EH-001	
Sample Date:	5/26/2025	8/26/2025	12/12/2025	5/26/2025	8/26/2025	12/11/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025	5/26/2025	8/26/2025	
Parameters	Units	ODWQS											
Metals													
Aluminum (dissolved)	mg/L	0.1	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0143	ND (0.0050)	ND (0.0050)	ND (0.0050)
Antimony (dissolved)	mg/L	0.006	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Arsenic (dissolved)	mg/L	0.01	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Barium (dissolved)	mg/L	1	0.128	0.131	0.138	0.146	0.163	0.177	0.108	0.111	0.0814	0.150	0.152
Beryllium (dissolved)	mg/L	-	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Bismuth (dissolved)	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)
Boron (dissolved)	mg/L	5	0.012	0.014	0.023	0.018	0.024	0.022	ND (0.010)	ND (0.010)	ND (0.010)	0.015	0.020
Cadmium (dissolved)	mg/L	0.005	0.0000084	0.0000120	0.0000108	0.0000058	0.0000336	0.0000069	0.0000213	0.0000158	0.0000131	0.0000121	0.0000470
Calcium (dissolved)	mg/L	-	97.4	98.7	98.4	72.1	74.2	83.4	145	114	97.5	73.8	75.3
Chromium (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Cobalt (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Copper (dissolved)	mg/L	1	0.00024	0.00022	0.00097	0.00032	0.00167	0.00029	0.00030	0.00027	0.00034	0.00028	0.00069
Iron (dissolved)	mg/L	0.3	0.084	0.508	2.16	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Lead (dissolved)	mg/L	0.01	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Lithium (dissolved)	mg/L	-	0.0012	0.0012	0.0016	0.0015	0.0021	0.0030	0.0031	0.0038	0.0040	0.0018	0.0017
Magnesium (dissolved)	mg/L	-	28.4	29.9	31.6	19.6	19.9	23.8	24.0	36.4	29.2	25.4	20.0
Manganese (dissolved)	mg/L	0.05	0.0394	0.0761	0.0828	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00070	ND (0.00050)	ND (0.00050)	ND (0.00050)
Molybdenum (dissolved)	mg/L	-	0.000392	0.000473	0.000788	0.000348	0.000438	0.000393	0.000392	0.000078	0.000113	0.000136	0.000357
Nickel (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Phosphorus (dissolved)	mg/L	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Potassium (dissolved)	mg/L	-	1.48	1.49	1.68	1.81	2.43	2.29	2.30	0.851	1.12	0.951	1.89
Selenium (dissolved)	mg/L	0.05	0.000069	0.000069	0.000072	0.000209	0.000213	0.000281	0.000232	0.000126	0.000112	0.000091	0.000232
Silicon (dissolved)	mg/L	-	4.33	4.64	5.19	3.50	4.40	4.33	4.40	5.57	5.22	5.25	3.60
Silicon	mg/L	-	4.37	4.58	4.66	3.65	4.44	4.25	4.34	5.92	6.29	12.5	3.76
Silver (dissolved)	mg/L	-	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)
Sodium (dissolved)	mg/L	200	4.65	5.25	6.59	11.5	13.2	14.5	14.6	13.4	72.7	31.7	10.9
Strontium (dissolved)	mg/L	-	0.154	0.158	0.159	0.134	0.142	0.154	0.150	0.239	0.199	0.156	0.137
Thallium (dissolved)	mg/L	-	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)
Tin (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Titanium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	0.00043	ND (0.00030)	ND (0.00030)
Tungsten (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Uranium (dissolved)	mg/L	0.02	0.000188	0.000174	0.000170	0.000247	0.000256	0.000285	0.000276	0.000314	0.000278	0.000248	0.000239
Vanadium (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Zinc (dissolved)	mg/L	5	0.0020	0.0019	0.0043	0.0019	0.0041	0.0021	0.0021	0.0034	0.0023	0.0017	0.0028
Zirconium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)

Notes:
 ODWQS Ontario Drinking Water Quality Standards (2020);
 including aesthetic objectives and
 operations guidelines (June 2003, revised 2006).
 ND (##) Not detected at the associated reporting limit
 shown in brackets
 J Estimated concentration.
 mg/L Milligram per litre.
0.23 Concentration shown is above the respective ODWQS

Table 6.2

2025 Groundwater Analytical Data - Metals
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:		MW3-16	MW3-16	MW3-16	MW4-16	MW4-16	MW4-16	MW4-16	MW4-16	MW5-16	MW5-16	MW5-16	MW5-16	MW6-16
Sample ID:		GW-78410-082625-EH-00	GW-78410-12122025-EH-016	GW-78410-12122025-EH-017	GW-78410-052725-EH-019	3W-78410-052725-EH-021	GW-78410-082625-EH-015	GW-78410-121125-EH-013	3W-78410-052625-CD-013	3W-78410-052625-CD-011	GW-78410-082625-CD-013	GW-78410-12122025-EH-018	GW-78410-052625-CD-014	
Sample Date:		8/26/2025	12/12/2025	12/12/2025	5/27/2025	5/27/2025	8/26/2025	12/11/2025	5/26/2025	5/26/2025	8/26/2025	12/12/2025	5/26/2025	
Parameters	Units	ODWQS	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	
Metals														
Aluminum (dissolved)	mg/L	0.1	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0092	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Antimony (dissolved)	mg/L	0.006	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Arsenic (dissolved)	mg/L	0.01	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00013	0.00015	0.00010	0.00010	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00012
Barium (dissolved)	mg/L	1	0.155	0.170	0.167	0.208	0.207	0.233	0.223	0.144	0.144	0.137	0.135	0.236
Beryllium (dissolved)	mg/L	-	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Bismuth (dissolved)	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)
Boron (dissolved)	mg/L	5	0.020	0.024	0.025	0.010	0.010	ND (0.010)	0.010	ND (0.010)	ND (0.010)	ND (0.010)	0.012	0.011
Cadmium (dissolved)	mg/L	0.005	0.0000464	0.0000140	0.0000127	ND (0.0000050)	ND (0.0000050)	0.0000198	0.0000062	0.0000074	0.0000061	0.0000081	0.0000063	0.0000065
Calcium (dissolved)	mg/L	-	76.3	80.7	80.4	80.7	81.0	85.7	83.7	92.8	93.9	90.9	91.7	89.6
Chromium (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Cobalt (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Copper (dissolved)	mg/L	1	0.00036 J	0.00037	0.00044	0.00033	0.00033	0.00136	0.00114	0.00049	0.00033	0.00048	0.00098	0.00051
Iron (dissolved)	mg/L	0.3	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.015	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Lead (dissolved)	mg/L	0.01	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Lithium (dissolved)	mg/L	-	0.0017	0.0027	0.0025	0.0025	0.0018	0.0027	0.0021	0.0022	0.0021	0.0021	0.0026	0.0026
Magnesium (dissolved)	mg/L	-	20.6	23.1	22.4	29.7	30.1	30.5	30.4	22.8	22.6	23.3	24.1	25.3
Manganese (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00133 J	0.00228 J	0.00192	0.00067	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Molybdenum (dissolved)	mg/L	-	0.000308	0.000312	0.000337	0.000223	0.000225	0.000256	0.000239	0.000260	0.000236	0.000233	0.000219	0.000276
Nickel (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00051	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Phosphorus (dissolved)	mg/L	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Potassium (dissolved)	mg/L	-	1.90	2.53	2.55	1.53	1.52	1.41	1.40	1.20	1.20	1.13	1.24	1.44
Selenium (dissolved)	mg/L	0.05	0.000182	0.000283	0.000288	0.000328	0.000330	0.000272	0.000267	0.000321	0.000344	0.000349	0.000386	0.000255
Silicon (dissolved)	mg/L	-	3.70	4.85	4.68	5.33	5.33	5.00	5.14	4.87	4.89	4.99	5.45	5.07
Silicon	mg/L	-	3.69	4.47	4.46	34.5	28.6	10.3	7.21	5.01	5.05	4.98	5.18	5.22
Silver (dissolved)	mg/L	-	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)
Sodium (dissolved)	mg/L	200	12.4	15.3	14.8	5.05	5.10	4.15	5.32	4.75	4.71	5.26	5.92	5.25
Strontium (dissolved)	mg/L	-	0.138	0.149	0.154	0.133	0.134	0.139	0.128	0.168	0.169	0.163	0.163	0.183
Thallium (dissolved)	mg/L	-	ND (0.000010)	ND (0.000010)	ND (0.000010)	0.000011	0.000010	0.000010	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)
Tin (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Titanium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)
Tungsten (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Uranium (dissolved)	mg/L	0.02	0.000236	0.000279	0.000272	0.000288	0.000293	0.000334	0.000304	0.000324	0.000329	0.000295	0.000312	0.000358
Vanadium (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Zinc (dissolved)	mg/L	5	0.0027	0.0030	0.0031	0.0037	0.0035	0.0053	0.0049	0.0021	0.0015	0.0016	0.0029	0.0017
Zirconium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)

Notes:

ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).

ND (##) Not detected at the associated reporting limit shown in brackets

J Estimated concentration.

mg/L Milligram per litre.

0.23 Concentration shown is above the respective ODWQS

Table 6.2

2025 Groundwater Analytical Data - Metals
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:	MW6-16	MW6-16	MW6-16	MW8-22	MW8-22	MW8-22	MW9-22	MW9-22	MW9-22	MW11-22	MW11-22	MW11-22
Sample ID:	GW-78410-082625-CD-00	GW-78410-082625-CD-005	GW-78410-12122025-EH-020	GW-78410-052625-EH-006	GW-78410-082725-EH-018	GW-78410-121125-EH-014	GW-78410-052625-EH-007	GW-78410-082725-EH-019	GW-78410-121125-EH-015	GW-78410-052625-EH-004	GW-78410-082625-EH-016	GW-78410-11122025-EH-004
Sample Date:	8/26/2025	8/26/2025	12/12/2025	5/26/2025	8/27/2025	12/11/2025	5/26/2025	8/27/2025	12/11/2025	5/26/2025	8/26/2025	12/11/2025
Parameters	Units	ODWQS	Duplicate									
Metals												
Aluminum (dissolved)	mg/L	0.1	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0247	0.204	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Antimony (dissolved)	mg/L	0.006	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Arsenic (dissolved)	mg/L	0.01	0.00013	0.00013	0.00015	0.00010	0.00012	0.00024	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Barium (dissolved)	mg/L	1	0.237	0.236	0.229	0.162	0.177	0.169	0.165	0.178	0.170	0.172
Beryllium (dissolved)	mg/L	-	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Bismuth (dissolved)	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)
Boron (dissolved)	mg/L	5	0.010	0.011	0.014	ND (0.010)	0.010	0.011	0.010	0.012	0.012	0.011
Cadmium (dissolved)	mg/L	0.005	0.0000068	0.0000073	ND (0.0000050)	0.0000095	0.0000129	0.0000150	0.0000051	ND (0.0000050)	0.0000061	ND (0.0000050)
Calcium (dissolved)	mg/L	-	90.1	90.6	87.1	92.6	93.9	101	91.0	92.0	97.6	92.5
Chromium (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00054	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Cobalt (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Copper (dissolved)	mg/L	1	0.00063 J	0.00120 J	0.00055	0.00039	0.00118	0.00127	0.00032	0.00043	0.00032	0.00032
Iron (dissolved)	mg/L	0.3	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	0.029	0.184	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
Lead (dissolved)	mg/L	0.01	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	0.000396	0.000396	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)
Lithium (dissolved)	mg/L	-	0.0026	0.0026	0.0031	0.0022	0.0020	0.0034	0.0027	0.0024	0.0038	0.0024
Magnesium (dissolved)	mg/L	-	27.8	27.7	28.0	25.5	28.5	30.8	25.9	29.5	31.1	24.0
Manganese (dissolved)	mg/L	0.05	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00166	0.0117	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Molybdenum (dissolved)	mg/L	-	0.000226	0.000228	0.000226	0.000204	0.000225	0.000212	0.000226	0.000193	0.000204	0.000214
Nickel (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Phosphorus (dissolved)	mg/L	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)
Potassium (dissolved)	mg/L	-	1.50	1.50	1.57	1.29	1.30	1.44	1.50	1.48	1.54	1.72
Selenium (dissolved)	mg/L	0.05	0.000254	0.000260	0.000309	0.000266	0.000262	0.000269	0.000263	0.000256	0.000283	0.000327
Silicon (dissolved)	mg/L	-	5.36	5.37	6.00	4.53	4.58	5.26	5.08	5.09	5.40	4.75
Silicon	mg/L	-	5.32	5.36	5.80	7.67	13.4	7.67	5.39	5.12	5.37	4.91
Silver (dissolved)	mg/L	-	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)	ND (0.000500)
Sodium (dissolved)	mg/L	200	5.55	5.54	5.95	4.46	4.80	5.09	9.24	10.2	11.0	8.34
Strontium (dissolved)	mg/L	-	0.182	0.183	0.179	0.167	0.169	0.173	0.178	0.178	0.179	0.182
Thallium (dissolved)	mg/L	-	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)
Tin (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00013	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Titanium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00070)	ND (0.00090)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)
Tungsten (dissolved)	mg/L	-	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)
Uranium (dissolved)	mg/L	0.02	0.000345	0.000348	0.000351	0.000329	0.000301	0.000330	0.000344	0.000307	0.000331	0.000308
Vanadium (dissolved)	mg/L	-	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)
Zinc (dissolved)	mg/L	5	0.0024	0.0032	0.0020	0.0049	0.0063	0.0083	0.0019	0.0017	0.0021	0.0021
Zirconium (dissolved)	mg/L	-	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)

Notes:
 ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).
 ND (##) Not detected at the associated reporting limit shown in brackets
 J Estimated concentration.
 mg/L Milligram per litre.
0.23 Concentration shown is above the respective ODWQS

Table 6.3

2025 Groundwater Analytical Data - Pesticides and Herbicides
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:	MW3-16	MW3-16	MW3-16	MW4-16	MW4-16	MW4-16	MW4-16	MW4-16	MW5-16	MW5-16	MW5-16	MW5-16	MW6-16
Sample ID:	GW-78410-082625-EH-002	GW-78410-12122025-EH-016	GW-78410-12122025-EH-017	GW-78410-052725-EH-019	GW-78410-052725-EH-020	GW-78410-082625-EH-015	GW-78410-121125-EH-013	GW-78410-052625-CD-012	GW-78410-052625-CD-013	GW-78410-082625-CD-013	GW-78410-12122025-EH-018	GW-78410-052625-CD-014	
Sample Date:	8/26/2025	12/12/2025	12/12/2025	5/27/2025	5/27/2025	8/26/2025	12/11/2025	5/26/2025	5/26/2025	8/26/2025	12/12/2025	5/26/2025	
Parameters	Units	ODWQS	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	
Pesticides and Herbicides													
2,4,5-T	µg/L	0.02	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
2,4,5-TP (Silvex)	µg/L	-	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
2,4'-DDD	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
2,4'-DDE	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
2,4'-DDT	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	100	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	µg/L	100	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
4,4'-DDD	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
4,4'-DDE	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
4,4'-DDT	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
4-Amino-3,5,6-trichloropicolinic acid (Picloram)	µg/L	190	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (2.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Alachlor	µg/L	5	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Aldrin	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
alpha-BHC	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
alpha-Chlordane	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Ametryn	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Atrazine	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Atrazine and N-Dealkylated Metabolites	µg/L	5	ND (0.2)	ND (0.20)	ND (0.20)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Azinphos-methyl	µg/L	20	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Bendiocarb	µg/L	-	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Benzo(a)pyrene	µg/L	0.01	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)
beta-BHC	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Bladex (Cyanazine)	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Bromoxynil	µg/L	5	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Carbaryl	µg/L	90	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Carbofuran	µg/L	90	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Chlordane	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Chlorpyrifos	µg/L	90	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
delta-BHC	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Desethyl atrazine	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Diazinon	µg/L	20	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Dicamba	µg/L	120	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (2.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Dichlorprop	µg/L	-	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Diclofop-methyl	µg/L	9	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Dieldrin	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Dimethoate	µg/L	20	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Dinoseb	µg/L	-	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Endosulfan I	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Endosulfan II	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Endosulfan sulfate	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Endrin	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Endrin aldehyde	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Ethyl parathion	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
gamma-BHC (lindane)	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Glyphosate	µg/L	280	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Heptachlor	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Heptachlor epoxide	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Hexachlorobenzene	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Malathion	µg/L	190	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Mecoprop (MCP)	µg/L	-	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Methoxychlor	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Methyl parathion	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Metolachlor	µg/L	50	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Metribuzin	µg/L	80	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)
Mirex	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Oxychlordane	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Phorate	µg/L	2	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Prometon	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Prometryn	µg/L	1	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Propazine	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Simazine	µg/L	10	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Temephos	µg/L	-	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)
Terbufos	µg/L	1	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Terbutryn	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Triallate	µg/L	230	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Trifluralin	µg/L	45	ND (0.10)	ND (0.10)	ND (0.10)	ND (0							

Table 6.3

2025 Groundwater Analytical Data - Pesticides and Herbicides
 2025 Combined Annual Monitoring Report
 Dufferin Aggregates Paris Pit
 County of Brant, Ontario

Sample Location:	MW6-16	MW6-16	MW6-16
Sample ID:	GW-78410-082625-CD-004	GW-78410-082625-CD-005	GW-78410-12122025-EH-020
Sample Date:	8/26/2025	8/26/2025	12/12/2025
Parameters	Units	ODWQS	Duplicate
Pesticides and Herbicides			
2,4,5-T	µg/L	0.02	ND (0.500)
2,4,5-TP (Silvex)	µg/L	-	ND (0.500)
2,4'-DDD	µg/L	-	ND (0.100)
2,4'-DDE	µg/L	-	ND (0.100)
2,4'-DDT	µg/L	-	ND (0.100)
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	100	ND (0.500)
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	µg/L	100	ND (0.500)
4,4'-DDD	µg/L	-	ND (0.100)
4,4'-DDE	µg/L	-	ND (0.100)
4,4'-DDT	µg/L	-	ND (0.100)
4-Amino-3,5,6-trichloropicolinic acid (Picloram)	µg/L	190	ND (0.50)
Alachlor	µg/L	5	ND (0.100)
Aldrin	µg/L	-	ND (0.100)
alpha-BHC	µg/L	-	ND (0.100)
alpha-Chlordane	µg/L	-	ND (0.100)
Ametryn	µg/L	-	ND (0.100)
Atrazine	µg/L	-	ND (0.100)
Atrazine and N-Dealkylated Metabolites	µg/L	5	ND (0.2)
Azinphos-methyl	µg/L	20	ND (0.10)
Bendiocarb	µg/L	-	ND (0.500)
Benzo(a)pyrene	µg/L	0.01	ND (0.0100)
beta-BHC	µg/L	-	ND (0.100)
Bladex (Cyanazine)	µg/L	-	ND (0.10)
Bromoxynil	µg/L	5	ND (0.500)
Carbaryl	µg/L	90	ND (0.500)
Carbofuran	µg/L	90	ND (0.500)
Chlordane	µg/L	-	ND (0.100)
Chlorpyrifos	µg/L	90	ND (0.10)
delta-BHC	µg/L	-	ND (0.100)
Desethyl atrazine	µg/L	-	ND (0.100)
Diazinon	µg/L	20	ND (0.100)
Dicamba	µg/L	120	ND (0.50)
Dichloroprop	µg/L	-	ND (0.500)
Diclofop-methyl	µg/L	9	ND (0.10)
Dieldrin	µg/L	-	ND (0.100)
Dimethoate	µg/L	20	ND (0.100)
Dinoseb	µg/L	-	ND (0.500)
Endosulfan I	µg/L	-	ND (0.100)
Endosulfan II	µg/L	-	ND (0.100)
Endosulfan sulfate	µg/L	-	ND (0.100)
Endrin	µg/L	-	ND (0.100)
Endrin aldehyde	µg/L	-	ND (0.100)
Ethyl parathion	µg/L	-	ND (0.10)
gamma-BHC (lindane)	µg/L	-	ND (0.100)
Glyphosate	µg/L	280	ND (1.0)
Heptachlor	µg/L	-	ND (0.100)
Heptachlor epoxide	µg/L	-	ND (0.100)
Hexachlorobenzene	µg/L	-	ND (0.100)
Malathion	µg/L	190	ND (0.100)
Mecoprop (MCP)	µg/L	-	ND (0.500)
Methoxychlor	µg/L	-	ND (0.100)
Methyl parathion	µg/L	-	ND (0.10)
Metolachlor	µg/L	50	ND (0.100)
Metribuzin	µg/L	80	ND (1.00)
Mirex	µg/L	-	ND (0.100)
Oxychlordane	µg/L	-	ND (0.100)
Phorate	µg/L	2	ND (0.25)
Prometon	µg/L	-	ND (0.100)
Prometryn	µg/L	1	ND (0.100)
Propazine	µg/L	-	ND (0.100)
Simazine	µg/L	10	ND (0.10)
Temephos	µg/L	-	ND (1.00)
Terbufos	µg/L	1	ND (0.50)
Terbutryn	µg/L	-	ND (0.100)
Triallate	µg/L	230	ND (0.10)
Trifluralin	µg/L	45	ND (0.10)

Notes:
 ODWQS Ontario Drinking Water Quality Standards (2020); including aesthetic objectives and operations guidelines (June 2003, revised 2006).
 ND (##) Not detected at the associated reporting limit shown in brackets
 µg/L Microgram per litre.

**2025 Surface Water Analytical Data - General Chemistry
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario**

Sample Location:			SW1B	SW1B	SW1B	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND
Sample ID:			SW-78410-052725-EH-001	SW-78410-082725-EH-001	SW-78410-11122025-EH-001	W-78410-040425-EH-01	W-78410-040425-EH-02	W-78410-111425-EH-001	W-78410-111425-EH-002
Sample Date:			5/27/2025	8/27/2025	12/11/2025	4/4/2025	4/4/2025 Duplicate	11/14/2025	11/14/2025 Duplicate
Parameters	Units	PWQO							
Field Parameters									
Conductivity, field	µS/cm	-	304	366	1040	511	511	575	575
Dissolved oxygen (DO), field	mg/L	-	3.1	0	11.65	3.4	3.4	8.65	8.65
Oxidation reduction potential (ORP), field	millivolts	-	29	-117	377	34	34	188	188
pH, field	s.u.	6.5-8.5	7.39	7.24	6.35	7.95	7.95	8.57	8.57
Temperature, field	Deg C	-	16.82	15.59	0.51	12.1	12.1	6.4	6.4
Turbidity, field	NTU	-	-	1000	12.4	5.2	5.2	75.7	75.7
General Chemistry									
Alkalinity, bicarbonate	mg/L	-	102	114	222	187	188	146	145
Alkalinity, carbonate	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, hydroxide	mg/L	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Alkalinity, total (as CaCO3)	mg/L	-	102	114	222	190	192	146	145
Anion sum	meq	-	3.01	3.88	6.55	5.55	5.58	5.83	5.81
Anion/Cation ratio	%	-	1.95	2.51	3.32	1.86	1.41	-0.17 J	-0.43 J
Cation sum	meq	-	3.13	4.08	7.00	5.76	5.74	5.81	5.76
Chloride (dissolved)	mg/L	-	26.8	43.5	45.7	32.2	32.0	70.3	70.1
Conductivity	µmhos/cm	-	315	398	625	511	523	568	564
Dissolved organic carbon (DOC) (dissolved)	mg/L	-	7.36	6.24	2.16	1.24	1.32	ND (1.86)	ND (1.70)
Hardness	mg/L	-	135	175	317	263	262	250	247
Nitrate (as N)	mg/L	-	ND (0.020)	ND (0.020)	3.30	4.43	4.46	3.79	3.84
Nitrite (as N)	mg/L	-	ND (0.010)	ND (0.010)	0.074	0.023	0.022	0.033	0.031
Nitrite/Nitrate	mg/L	-	ND (0.0224)	ND (0.0224)	3.37	4.45	4.48	3.82	3.87
Oil and grease	mg/L	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Orthophosphate (dissolved)	mg/L	-	0.0080	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)	ND (0.0030)
pH, lab	s.u.	6.5-8.5	7.88	7.29	8.26	8.36	8.38	8.27	8.27
Sulfate (dissolved)	mg/L	-	10.5	17.8	27.9	25.4	25.2	31.6	31.5
Total dissolved solids (TDS)	mg/L	-	184	247	342	303 J	293 J	306	295
Total organic carbon (TOC)	mg/L	-	11.5	7.99	3.18	1.89	1.55	1.84 J	2.37 J
Total suspended solids (TSS)	mg/L	-	59.5	8.9	ND (3.0)	36.6 J	6.8 J	28.4	21.8
Turbidity	NTU	-	5.34	1.39 J	1.03	2.62	2.22	30.5	32.1

Notes:

- PWQO Provincial Water Quality Objectives, July 1994, revised February 1999
- (1) Erroneous field pH reading confirmed by laboratory results.
- Not analyzed.
- ND (##) Not detected at the associated reporting limit shown in brackets
- J Estimated concentration
- µS/cm MicroSiemens per centimetre
- µmhos/cm Micromhos per centimetre
- mg/L Milligram per litre
- Deg C Degrees Celsius
- meq Milliequivalents
- NTU Nephelometric turbidity units

6.35 Concentration is above/below the PWQO.

Table 6.5
2025 Surface Water Analytical Data - Metals
2025 Combined Annual Monitoring Report
Dufferin Aggregates Paris Pit
County of Brant, Ontario

Sample Location:			SW1B	SW1B	SW1B	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND
Sample ID:			SW-78410-052725-EH-001	SW-78410-082725-EH-001	SW-78410-11122025-EH-001	W-78410-040425-EH-01	W-78410-040425-EH-02	W-78410-111425-EH-001	W-78410-111425-EH-002
Sample Date:			5/27/2025	8/27/2025	12/11/2025	4/4/2025	4/4/2025 Duplicate	11/14/2025	11/14/2025 Duplicate
Parameters	Units	PWQO							
Metals									
Aluminum	mg/L	0.075	0.653	0.0423	0.0122	0.152 J	0.0781 J	0.455	0.281
Aluminum (dissolved)	mg/L	0.075	ND (0.0500)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0129	0.0127
Antimony	mg/L	0.02	ND (0.00010)	0.00016	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00011 J	ND (0.00100) J
Arsenic	mg/L	0.005	0.00032	0.00012	0.00014	0.00030	0.00025	0.00076 J	ND (0.00100) J
Barium	mg/L	-	0.0683	0.0781	0.156	0.143	0.140	0.0787	0.0636
Beryllium	mg/L	0.011	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100)	ND (0.000100) J	ND (0.00100) J
Bismuth	mg/L	-	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050) J	ND (0.000500) J
Boron	mg/L	0.2	0.016	0.017	0.021	0.019	0.019	0.041 J	ND (0.100) J
Cadmium	mg/L	0.0002	0.0000182	ND (0.0000050)	ND (0.0000050)	0.0000121 J	0.0000065 J	0.0000639 J	0.0000740 J
Calcium	mg/L	-	28.5	34.2	74.3	69.0	68.1	62.0	55.5
Calcium (dissolved)	mg/L	-	27.5	33.4	82.4	66.8	65.7	53.4	52.3
Chromium	mg/L	0.0089	0.00100	0.00173	0.00052	ND (0.00050)	ND (0.00050)	0.00371 J	ND (0.00500) J
Cobalt	mg/L	0.0009	0.00036	ND (0.00010)	ND (0.00010)	0.00017	ND (0.00010)	0.00089 J	ND (0.00100) J
Copper	mg/L	0.005	0.00242	ND (0.00100)	ND (0.00100)	0.00167 J	0.00101 J	0.00673 J	ND (0.0100) J
Iron	mg/L	0.3	0.544	0.060	ND (0.050)	0.261 J	0.095 J	0.934 J	0.523 J
Lead	mg/L	0.005	0.00173	0.000163	0.000107	0.000675	0.000312	0.00325 J	0.00148 J
Lithium	mg/L	-	0.0023	0.0017	0.0017	0.0029	0.0030	0.0028 J	ND (0.0100) J
Magnesium	mg/L	-	16.6	22.3	25.2	24.9	24.1	33.6	33.9
Magnesium (dissolved)	mg/L	-	16.2	22.2	27.1	23.4	23.7	28.4	28.3
Manganese	mg/L	-	0.0410	0.0190	0.00595	0.0256 J	0.0146 J	0.0770	0.0534
Molybdenum	mg/L	0.04	0.000136	0.000096	0.000444	0.000464	0.000446	0.00161	0.00166
Nickel	mg/L	0.025	0.00086	0.00080	ND (0.00050)	0.00055	ND (0.00050)	0.00304 J	ND (0.00500) J
Phosphorus	mg/L	0.01	0.248	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050) J	ND (0.500) J
Potassium	mg/L	-	1.65	2.34	2.64	1.91	1.87	3.74 J	14.7 J
Selenium	mg/L	0.1	0.000132	ND (0.000050)	0.000127	0.000146	0.000147	0.000108 J	ND (0.000500) J
Silicon	mg/L	-	2.36	7.15	2.11	3.50	3.37	2.86 J	2.75 J
Silicon (dissolved)	mg/L	-	1.39	6.80	2.01	3.14	3.12	2.29	2.31
Silver	mg/L	0.0001	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050)	ND (0.000050) J	ND (0.000500) J
Sodium	mg/L	-	8.03	12.1	13.1	10.8	10.9	17.6	19.3
Strontium	mg/L	-	0.0731	0.0920	0.164	0.151	0.152	0.182	0.243
Thallium	mg/L	0.0003	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	ND (0.000010)	0.000023 J	ND (0.000100) J
Tin	mg/L	-	0.00016	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	0.00032 J	ND (0.00100) J
Titanium	mg/L	-	0.0167	0.00179	ND (0.00090)	0.00421 J	0.00183 J	0.0138 J	0.00859 J
Tungsten	mg/L	0.03	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010) J	ND (0.00100) J
Uranium	mg/L	0.005	0.000113	0.000064	0.000378	0.000266	0.000258	0.000245	0.000236
Vanadium	mg/L	0.006	0.00122	ND (0.00050)	ND (0.00050)	ND (0.00050)	ND (0.00050)	0.00109 J	ND (0.00500) J
Zinc	mg/L	0.02	0.0076	ND (0.0030)	ND (0.0030)	0.0106 J	0.0048 J	0.0266 J	ND (0.0300) J
Zirconium	mg/L	0.004	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030)	ND (0.00030) J	ND (0.00300) J

Notes:
PWQO Provincial Water Quality Objectives, July 1994, revised February 1999.
ND (##) Not detected at the associated reporting limit shown in brackets
J Estimated concentration.
J- The result is an estimated quantity, but the result may be biased low.
mg/L Milligram per litre.
0.0882 Concentration is above the PWQO.

Sample Location:		SW1B	SW1B	SW1B	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND	RECIRCULATION POND
Sample ID:		SW-78410-052725-EH-001	SW-78410-082725-EH-001	SW-78410-11122025-EH-001	W-78410-040425-EH-01	W-78410-040425-EH-02	W-78410-111425-EH-001	W-78410-111425-EH-002
Sample Date:		5/27/2025	8/27/2025	12/11/2025	4/4/2025	4/4/2025 Duplicate	11/14/2025	11/14/2025 Duplicate
Parameters	Units	PWQO						
Glyphosate	µg/L	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Heptachlor	µg/L	0.001	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Heptachlor epoxide	µg/L	0.001	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Hexachlorobenzene	µg/L	0.0065	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Malathion	µg/L	0.1	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Mecoprop (MCP)	µg/L	-	ND (2.50)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)	ND (0.500)
Methoxychlor	µg/L	0.04	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Methyl parathion	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Metolachlor	µg/L	3	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Metribuzin	µg/L	-	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)
Mirex	µg/L	0.001	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Oxychlorodane	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Phorate	µg/L	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Prometon	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Prometryn	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Propazine	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Simazine	µg/L	10	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Temephos	µg/L	-	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)
Terbufos	µg/L	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Terbutryn	µg/L	-	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
Triallate	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Trifluralin	µg/L	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)

Notes:
PWQO Provincial Water Quality Objectives, July 1994, revised February 1999.
- Not analyzed.
ND (##) Not detected at the associated reporting limit shown in brackets
µg/L Microgram per litre.

Appendices

Appendix A

**Amended PTTW No. 7481 C4BQTA
(August 13, 2021)**

AMENDED PERMIT TO TAKE WATER
Ground Water
NUMBER 7481-C4BQTA

Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

CRH Canada Group Inc.
Floor 4 - 2300 Steeles Ave W
Concord, Ontario
L4K 5X6

For the water taking from: Source Water Pond located at 716 Watts Pond Road

Located at: Lot 27, Concession 2, Geographic Township of Dumfries
Brant

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment, Conservation and Parks.
- (d) "District Office" means the Guelph District Office.
- (e) "Permit" means this Permit to Take Water No. 7481-C4BQTA including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.
- (f) "Permit Holder" means CRH Canada Group Inc..
- (g) "OWRA " means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated January 6, 2021 and signed by Kevin Mitchell, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

- (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and

the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. **Water Takings Authorized by This Permit**

3.1 **Expiry**

This Permit expires on **October 29, 2025**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1	Source Water Pond	Pond Dugout	Aggregate Washing	Industrial	10,000	12	7,200,000	230	17 550738 4784696
						Total Taking:	7,200,000		

- 3.3 The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A.
- 3.4 The “Taking Specific Purpose” identified in Table A, includes the water to be used for dust suppression, watering trees, shrubs and native plants planted within the last 18 months..
- 3.5 Notwithstanding Table A, the rate of taking from the Source Pond shall only be at the rate and daily maximum listed in Table A for a total of 30 days per annum for the purpose of refilling the Settling and Recirculation Ponds after removal of accumulated sediment from these ponds or repairing the liner in the Recirculation Pond. For the remaining 200 days, the water taking shall be at a rate of no more than 1,400 L/min for 12 hours per day.
- i. Water may be taken during a 12 hour period between a Sunday and the following Monday (e.g. Sunday 7:00pm and Monday 7:00am) at the rate of 10,000 L/min. This water taking shall be measured and shall be recorded as being taken on the Sunday. Water may be taken on the Monday at a rate of 1,400 L/min as per Condition 3.4 above.
- ii. In the event of a long holiday weekend, water may be taken during a 12 hour period between the holiday Monday and Tuesday (e.g. holiday Monday 7:00pm and Tuesday 7:00am). This water taking shall be measured and shall be recorded as being taken on the holiday Monday. Water may be taken on the Tuesday at a rate of 1,400 L/min as per Condition 3.4 above.
- 3.6 Water taking under the authorization of this permit shall only occur between February 15 and December 31 of each year during the validity of this Permit.
- 3.7 In the event the Permit Holder pumps water from the Source Pond at lower than the maximum permitted rates, the saved water can be pumped in other days exceeding the total number of 230 days provided the additional days shall be within the permitted window of February 15 to December 31 inclusive, and the rate of taking shall not exceed 1,400 litres per minute and 1,008,000 litres per day. The Cumulative Volume pumped in all days from February 15 to December 31 shall not exceed 417,600,000 litres annually.

4. Monitoring

- 4.1 Under section 9 of O. Reg. 387/04 as amended from time to time, the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter or calculated in accordance with the method described in the application for this Permit, or as otherwise accepted by the Director.

The Permit Holder shall maintain a separate record of the water taking used for both dust suppression and vegetation watering.

The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31st in every year, the records required by this condition to the ministry's Water Taking Reporting System. These records shall be included in the Combined Annual Monitoring Report described in Condition 4.4.

- 4.2 a) The Permit Holder shall monitor groundwater levels at the following monitoring wells;
- i) MW1-12 or replacement well in the same general area,
 - ii) MW3-16 or replacement well located between the Source Pond and the south property boundary, and
 - iii) Wells BH88-5 and BH88-5-II or replacement wells in the same general area.
- b) The three (3) groundwater monitoring wells listed in Condition 4.2 a) shall be located at three (3) different distances from the edge of the Source Pond. In addition, these three (3) wells shall be screened within the upper Sand and Gravel Aquifer. These three (3) wells may be used for other monitoring purposes.
- c) The Permit Holder shall ensure that groundwater levels are collected at the three groundwater monitoring wells described in Condition 4.2 a) between February 15 and December 31 of every for which the Permit is valid. Water levels shall be collected at a minimum of hourly intervals using a datalogger.
- d) The Permit Holder shall ensure that the data loggers described in Condition 4.2 d) operate without interruption. Repairs or replacement of the dataloggers shall be completed within a reasonable period once a malfunction has been identified.
- 4.3 The Permit Holder shall establish the following surface water monitoring program seasonally during non-freezing conditions:
- a) continuous surface water level monitoring at SW1A, SW1B and MP1S and MP2S.

- b) calculation of vertical hydraulic gradient at the multi-level piezometer; and
- c) continuous water level monitoring shall be logged at a minimum of 4 hour intervals.

4.4 The Permit Holder shall ensure that groundwater levels, surface water levels, and any other data collected from any on site monitoring wells are included in a Combined Annual Monitoring Report. Copies of this Combined Annual Monitoring Report shall be submitted to both the Ministry of the Environment, Conservation and Parks, Section 34.1 Director and the County of Brant by March 31st of each year following the issuance of the Permit to Take Water.

The Combined Annual Monitoring Report shall include a comparison of the annual groundwater elevation contours with the simulated water level changes outlined in the OWRA s34 Permit-To-Take-Water Application and Supporting Hydrologic and Hydrogeologic Study, Dufferin Paris Pit, County of Brant, Ontario, prepared by Conestoga-Rovers & Associates, dated March 2013.

4.5 The Permit Holder shall make the report required by Condition 4.4 available to the Community Advisory Panel, and publicly by posting it on the Company's website at the time specified in Condition 4.4.

4.6 All Permit renewals and amendments other than administrative amendments shall be accompanied by a hydrogeological assessment report which presents and discusses the data collected in Conditions 4.1, 4.2 and 4.3. This report shall be signed and stamped by a qualified person.

4.7 The Permit Holder shall continue to implement the Trigger Mechanism and Contingency Plan for both groundwater and surface water. This Plan shall be reviewed and updated with approval by the ministry as necessary at minimum every two years. This review can be completed as part of the Combined Annual Monitoring report referenced in Condition 4.4.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Groundwater Takings

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate

such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.
2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.
3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

- a. The name of the appellant;
- b. The address of the appellant;
- c. The Permit to Take Water number;
- d. The date of the Permit to Take Water;
- e. The name of the Director;
- f. The municipality within which the works are located;

This notice must be served upon:

*The Secretary
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto ON
M5G 1E5
Fax: (416) 326-5370
Email:
ERTTribunalsecretary@ontario.ca*

AND

*The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7J 2J3*

AND

*The Director, Section 34.1,
Ministry of the Environment,
Conservation and Parks
Floor 1, 135 St Clair Ave W
Toronto, ON
M4V 1P5*

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by Telephone at

(416) 212-6349

Toll Free 1(866) 448-2248

by Fax at

(416) 326-5370

Toll Free 1(844) 213-3474

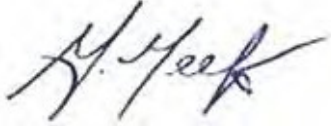
by e-mail at

www.ert.gov.on.ca

*This instrument is subject to Section 38 of the **Environmental Bill of Rights** that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

This Permit cancels and replaces Permit Number 7115-9VVLJW, issued on 2015/10/29.

Dated at Toronto this 13th day of August, 2021.

A handwritten signature in black ink, appearing to read "G. Meek". The signature is written in a cursive style with a large initial "G" and a long horizontal stroke extending to the right.

Gregory Meek
Director, Section 34.1
Ontario Water Resources Act , R.S.O. 1990

Schedule A

This Schedule “A” forms part of Permit To Take Water 7481-C4BQTA, dated August 13, 2021.

1. Application for Amendment to PTTW received by the ministry on January 12, 2021 from CRH Canada Group Inc. Mailing Address: Floor 4 - 2300 Steeles Ave W, Concord, Ontario, Canada, L4K 5X6 for Dufferin Aggregates Paris Pit at Lot 27, Concession 2, 716 Watts Pond Road, geographic township: DUMFRIES, County of Brant, signed by Kevin Mitchell, January 6, 2021. GHD. 2021.
2. Category 3 Permit-To-Take Water Amendment Application Supporting Hydrologic and Hydrogeologic Study, Dufferin Aggregates Paris Pit, signed and stamped by Gary I. Lagos, P. Geo of GHD, January 6, 2021. Dufferin. 2021.
3. Paris Pit Permit to Take Water Amendment Application, Reference No. 8637-BXAR22, letter to Ministry of Environment, Conservation and Parks from Kevin Mitchell of Dufferin Aggregates, May 6, 2021.
4. Trigger Mechanism and Contingency Plan Condition 4.7 – PTTW No. 5826-ALCNNN Dufferin Aggregates Paris Pit, County of Brant, Ontario; for CRH Canada Group Inc. Signed by Michael R. Tomka, P. Eng. and signed and stamped by Gary I. Lagos, P. Geo. of GHD, July 19, 2017, Reference No. 078410.

Appendix B

**Amended Environmental Compliance
Approval (ECA) (March 14, 2022)**

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 3994-CCDR8L
Issue Date: March 14, 2022

CRH Canada Group Inc.
2300 Steeles Avenue West, 4th Floor
Concord, Ontario
L4K 5X6

Site Location: Dufferin Aggregates - Paris Pit
708 Watts Pond Road
South Dumfries, Ontario
N3L 3E2

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

sewage works for the collection, transmission, treatment and reuse of wash water effluent from an aggregate washing operation, consisting of the following:

- one (1) **settling pond** (comprised of the settling cell(s) and the recirculation cell) constructed above the ground-water table receiving wash water from the Processing Wash Plant and make-up water from the source water pond, and returning settled water back to the Processing Wash Plant.

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works.

all in accordance with the supporting documents listed in Schedule A.

For the purpose of this environmental compliance approval, the following definitions apply:

"Application" means the application for an environmental compliance approval submitted to the Ministry for approval by or on behalf of the Owner and dated February 10, 2022.

"Approval" means this environmental compliance approval, any schedules attached to it, and the Application;

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part

II.1 of the EPA;

"District Manager" means the District Manager of the Guelph District Office of the Ministry;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

"Owner" means CRH Canada Group Inc., and includes its successors and assignees;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended; and

"Works" means the sewage works described in the Approval.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITION

- 1.1 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.
- 1.3 Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the Application
- 1.4 Where there is a conflict between the documents listed in the Schedule A, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.
- 1.5 The terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this environmental compliance approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2. CHANGE OF OWNER

- 2.1 The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
- (a) change of address of Owner or operating authority;
 - (b) change of Owner or operating authority or both, including address of new Owner or operating authority, or both;
 - (c) change of partners where the Owner or operating authority is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act, R.S.O. 1990, c. B.17* ; and
 - (d) change of name of the corporation where the Owner or operator is or at any time becomes a corporation, and a copy of the “Initial Return” or “Notice of Change” filed under the *Corporations Information Act, R.S.O. 1990, c. C.39* , shall be included in the notification to the District Manager.
- 2.2 In the event of any change in ownership of the Works, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager.
- 2.3 The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this environmental compliance approval.

3. OPERATIONS MANUAL

- 3.1 The Owner shall prepare an operations manual prior to the construction, use and operation of the Works that includes, but is not limited to, the following information:
- (a) operating procedures for routine operation of the Works;
 - (b) inspection programs, including frequency of inspection, for the Works and the methods or tests to be employed to detect when maintenance is necessary;
 - (c) repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - (d) contingency plans and procedures for dealing with a potential spill, bypasses or any other abnormal situations, including notifying the District Manager of the situation; and
 - (e) procedures for receiving and responding to public complaints.
- 3.2 The Owner shall review and update the operations manual from time to time and shall retain a copy of

the updated manual onsite at the Works. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

3.3 The Owner shall make all reasonable efforts to promptly develop a seal at the bottom of the settling pond (comprised of the settling cell(s) and the recirculation cell) and to maintain the integrity of the seal when removing excess sediment from the bottom of the settling pond.

4. MONITORING AND RECORDING

4.1 The Owner shall monitor the groundwater through seven (7) groundwater monitoring wells. Existing wells may be used or new wells installed. The groundwater monitoring wells shall meet the following requirements:

- (a) the wells shall be screened within the upper sand and gravel aquifer;
- (b) three (3) groundwater monitoring wells shall be located along the northern boundary of the Paris South Pit, one (1) of these wells may be located at the south boundary of the Paris North Pit;
- (c) three (3) groundwater monitoring wells shall be located along the southern boundary of the Paris South Pit, with one of these monitoring wells located up gradient of the County of Brant’s Telfer wells P31 and P32 and another located immediately down gradient of the source water pond; and
- (d) existing groundwater monitoring well MW1-12 or a suitable replacement shall be included in the monitoring.

4.2 Groundwater samples shall be collected from the seven (7) wells required by Condition 4.1 above in **May, August and December** of each year and sent for analysis in accordance with the table below:

General Chemistry	Metals (1)
Conductivity, pH, Hardness (as CaCO ₃), Total Suspended Solids (TSS), Total Dissolved Solids, Alkalinity - Bicarbonate (as CaCO ₃), Alkalinity - Carbonate (as CaCO ₃), Alkalinity - Hydroxide (as CaCO ₃), Total - Alkalinity (as CaCO ₃), Nitrate-N, Nitrite-N, Nitrate & Nitrite (as N), Phosphate-P (ortho), Sulphate, Anion Sum, Cation Sum, Cation - Anion Balance, Dissolved Organic Carbon, Total Organic Carbon, Turbidity.	Aluminium, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Chloride, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon (total and dissolved silicon), Silver, Sodium, Strontium, Thallium, Tin, Titanium, Tungsten, Uranium, Vanadium, Zinc, Zirconium.

(1) - Groundwater samples are analyzed for dissolved metals. Surface water samples are analyzed for total metals.

4.3 Groundwater samples shall also be analysed for pesticides, including organochlorine pesticides and herbicides, as listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule A), at detection limits equal to or lower than those listed. In

the event of any analytical issue (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.4 Surface water samples shall be collected from SW1B (previously referred to as SW1; see OWRA S53 Environmental Compliance Approval (ECA) Application and Supporting Information, Dufferin Paris Pit, County of Brant, CRA, 2013, See Schedule A) and analysed as follows:

- (a) Samples shall be collected three (3) times per year in **May, August and December**; and,
- (b) Samples shall be analysed for: Field Parameters General Chemistry, Metals and Oil and Grease in accordance with the table below:

Field Parameters	General Chemistry, Metals (1) and Oil & Grease
pH, temperature, conductivity, dissolved oxygen, turbidity	Total Suspended Solids, hardness, alkalinity, nutrients (total phosphorous, total nitrate, and total nitrite), major ions, metals (unfiltered samples except for aluminium which should be from a clay free sample), Oil and Grease.

- (c) Surface water samples shall also be analysed for the suite of pesticides, including organochlorine pesticides and herbicides, listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule A). For pesticides, the analytical detection limits shall be equal to or lower than those listed in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014). In the event of any analytical issue (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.5 The Owner shall ensure that no sediment shall be used on Site for rehabilitation without complying with all applicable laws in place at the time of reuse.

4.6 Water samples shall be collected from the recirculation cell as follows:

- (a) Water samples shall be collected two (2) times during the calendar year, between **February 15th** and **December 15th**, with the first sample taken prior to the start of aggregate washing season and the second taken at the end.

4.7 The water samples collected from the recirculation cell shall be sent for analysis of general chemistry and metals (as described in condition 4.2) and pesticides, including Glyphosate, Atrazine, Atrazine Desethyl and Aminomethylphosphonic Acid (AMPA). The sampling methods shall have detection limits at levels identical to or lower than those described in Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario, CRA (2014) (see Schedule 1). In the event of any analytical issues (e.g. matrix interference), reasonably achievable laboratory detection limits will apply.

4.8 After **three (3) years** of continuous data collection, application may be made to the Director to have the monitoring conditions amended.

5. CONTINGENCY AND POLLUTION PREVENTION PLAN

5.1 The Owner shall prepare a Contingency and Pollution Prevention Plan prior to the commencement of operation of the Works that includes, but is not necessarily limited to, the following information:

- (a) the name, job title and address of the Owner, person in charge, management or control of the facility.
- (b) the name, job title and 24-hour telephone number of the person(s) responsible for activating the Contingency Plan.
- (c) a site plan drawn to scale showing the facility, nearby buildings, streets, maintenance access and the Works (including direction(s) of flow in storm events) and any features which need to be taken into account in terms of potential impacts on access and response (including physical obstructions and location of response and clean-up equipment).
- (d) a listing of telephone numbers for: local clean-up company(ies) who may be called upon to assist in responding to spills; local emergency responders including health institution(s); and MOECC Spills Action Centre 1-800-268-6060.
- (e) Materials Safety Data Sheets (MSDS) for each hazardous material which may be transported or stored within the area serviced by the Works.
- (f) the written procedures by which the Contingency and Pollution Prevention Plan is activated and a description of the Trigger Mechanism(s).
- (g) a description of the spill response and pollution prevention training provided to employees assigned to work in the area serviced by the Works, the date(s) on which the training was provided and to whom.
- (h) the date on which the Contingency and Pollution Prevention Plan was prepared and subsequently, amended.
- (i) any other information the District Manager requires from time to time.

5.2 The Contingency and Pollution Prevention Plan shall be kept in a conspicuous place inside the office building. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

5.3 The Contingency and Pollution Prevention Plan shall be reviewed and amended from time to time, as needed by changes in the operation of the facility.

5.4 A minimum of **thirty (30) days** prior to submission, a copy of the Plan required by Condition 5.1 shall be provided to the County of Brant and posted on the Company's website for a period of thirty (30) days to permit the County of Brant and the public the opportunity to provide comments to the Company.

6. REPORTING

6.1 In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges), the Owner shall, within **fifteen (15) days** of the occurrence of any reportable spill as provided in Part X of the EPA and Ontario Regulation 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.

6.2 The Owner shall prepare and submit a report to the District Manager on an annual basis within **ninety (90) days** following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

- (a) a summary and interpretation of all monitoring data with a comparison to applicable objectives, guidelines, standards, and modelled predictions;
- (b) an overview of the success and adequacy of the Works;
- (c) a description of any operating problems encountered and corrective actions taken;
- (d) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works; and
- (e) any other information the District Manager requires from time to time.

7. SPECIAL CONDITION – PUBLIC ACCESSIBILITY TO REPORT

The Owner shall, make the report required by Condition 6.3 available to the community advisory panel and publicly by posting it on the Company's website at the time specified in Condition 6.3.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition 2 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the works in compliance with it.
3. Condition 3 is included to ensure that a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.
4. Condition 4 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained and so that the Works do not cause any impairment to the environment. The Condition is also included for the following purposes:
 - a) To determine the chemistry of groundwater flowing onto and from that part of the Paris Pit property located south of Watts Pond Road. This area is known as the Paris South Pit.
 - b) To determine whether the recirculation and source ponds have an effect on groundwater chemistry.
5. Condition 5 is included to ensure that the Owner will implement the spill contingency plan, such that the environment is protected and deterioration, loss, injury or damage to any person(s) or property is prevented.
6. Condition 6 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.
7. Condition 7 is included to provide the general public with the report required in Condition 6.2.

SCHEDULE 'A'

This Schedule contains a list of supporting documentation / information received, reviewed and relied upon in the issuance of this Approval.

1. Environmental Compliance Approval Application for Industrial Sewage Works submitted by J. Richard Murphy, P.Eng., of Conestoga-Rovers & Associates Ltd., and signed by Kevin Mitchell, Manager Environment and Properties, of Holcim (Canada) Inc., dated June 03, 2013; and all supporting documentation and information.
2. CRA. 2013. OWRA S53 Environmental Compliance Approval (ECA) Application and Supporting Information, Dufferin Paris Pit, County of Brant, Ontario, signed and stamped by Michael R. Tomka, P. Eng., signed and stamped by Gary Lagos, P. Geo. and signed by J. Richard Murphy, P. Eng. of Conestoga-Rovers & Associates, June 2013, #078410, Report Number: 3.
3. CRA (2014). Assessment of Herbicide and Pesticide Concerns, Dufferin Paris Pit, County of Brant, Ontario; signed and stamped by Gary Lagos, P. Geo. and signed by J. Richard Murphy, P. Eng. of Conestoga-Rovers & Associates, July 2014, #078410, Report Number: 5.
4. CRA. 2015. Re: Modifications to Works for Existing ECA Application Dufferin Paris Pit, Paris, Ontario; letter addressed to Mr. Adedoyin Adenowo, Senior Wastewater Engineer, Ministry of Environment and Climate Change from Michael Tomka, P. Eng. of Conestoga-Rovers & Associates, April 16, 2015, Reference No. 078410.
5. AE. 2010. Alberta Tier 1 Soil and Groundwater Remediation Guidelines, Alberta Environment, December 2010, ISBN: 978-0-7785-9015-6 (Printed Edition) ISBN: 978-0-7785-9947-0 (On-line Edition), Retrieved May 6, 2015 from:
<http://environment.gov.ab.ca/info/library/7751.pdf>
6. NSE. 2014. Environmental Quality Standards for Contaminated Sites Rationale and Guidance, Nova Scotia Environment, Environmental Quality Standards for Contaminated Sites, April 2014, retrieved May 6, 2015 from:
<https://novascotia.ca/nse/contaminatedsites/docs/EQS-Contaminated%20Sites-Rationale-and-Guidance-NSE-2014.pdf>
7. Environmental Compliance Approval Application for Industrial Sewage Works submitted by Richard Chatfield, P.Eng., GHD Limited, and signed by Jennah Pettenuzzo, Environmental Coordinator - Dufferin Aggregates, dated February 10, 2022; and all supporting documentation and information.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 0302-ALCK5W issued on April 12, 2017.

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal within 15 days after receipt of this notice, require a hearing by the Tribunal. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

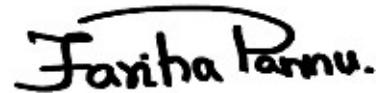
and

The Director appointed for the purposes of Part II.1 of the *Environmental Protection Act*
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

* Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 14th day of March, 2022



Fariha Pannu, P.Eng.

Director

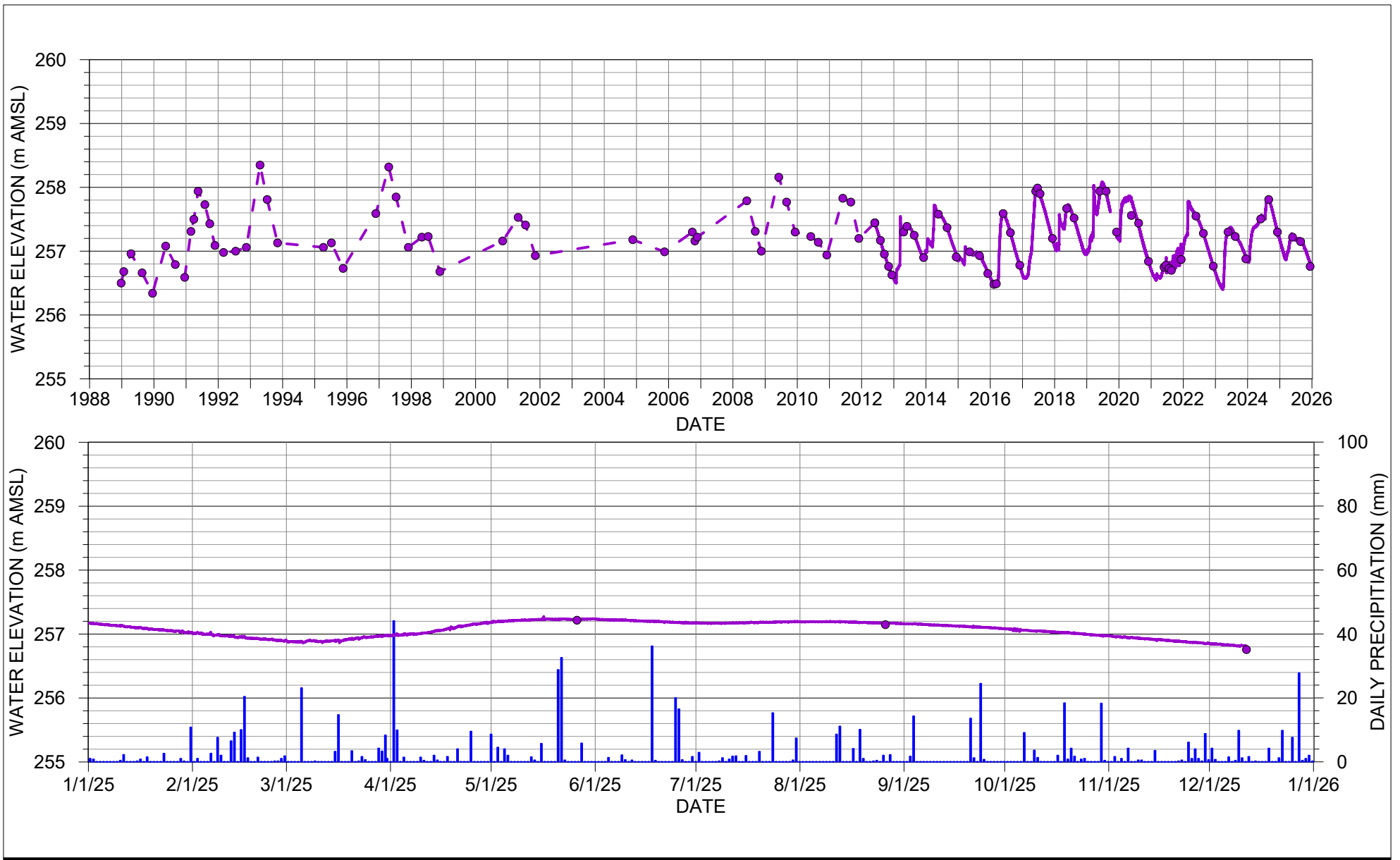
appointed for the purposes of Part II.1 of the
Environmental Protection Act

AA/

c: District Manager, MECP Guelph District Office
Richard Chatfield, P.Eng., GHD Limited

Appendix C

Hydrographs - Historical Hydraulic Monitoring Data

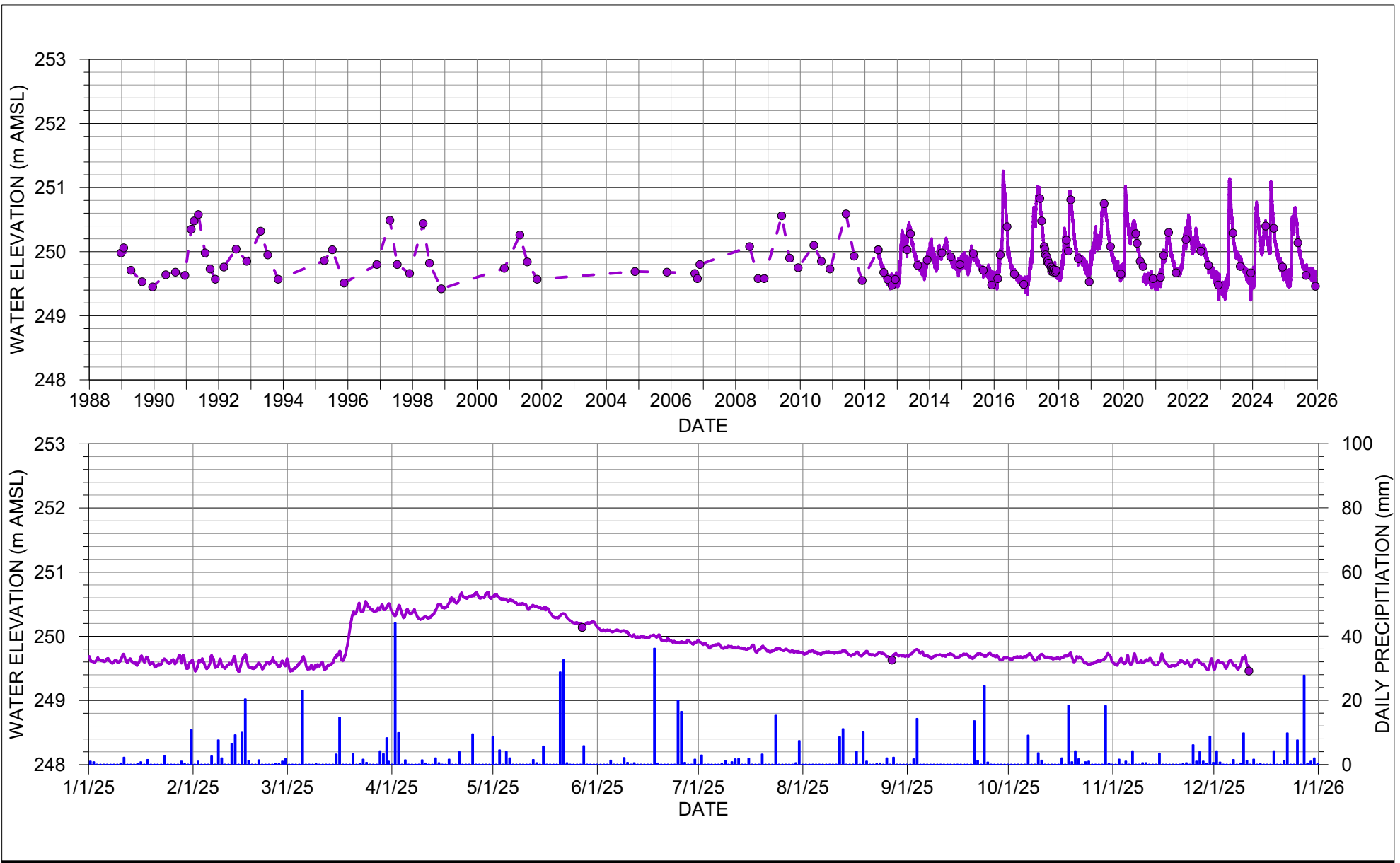


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - BH88-1-I

FIGURE C.1

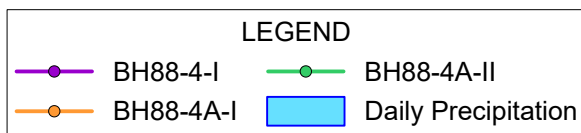
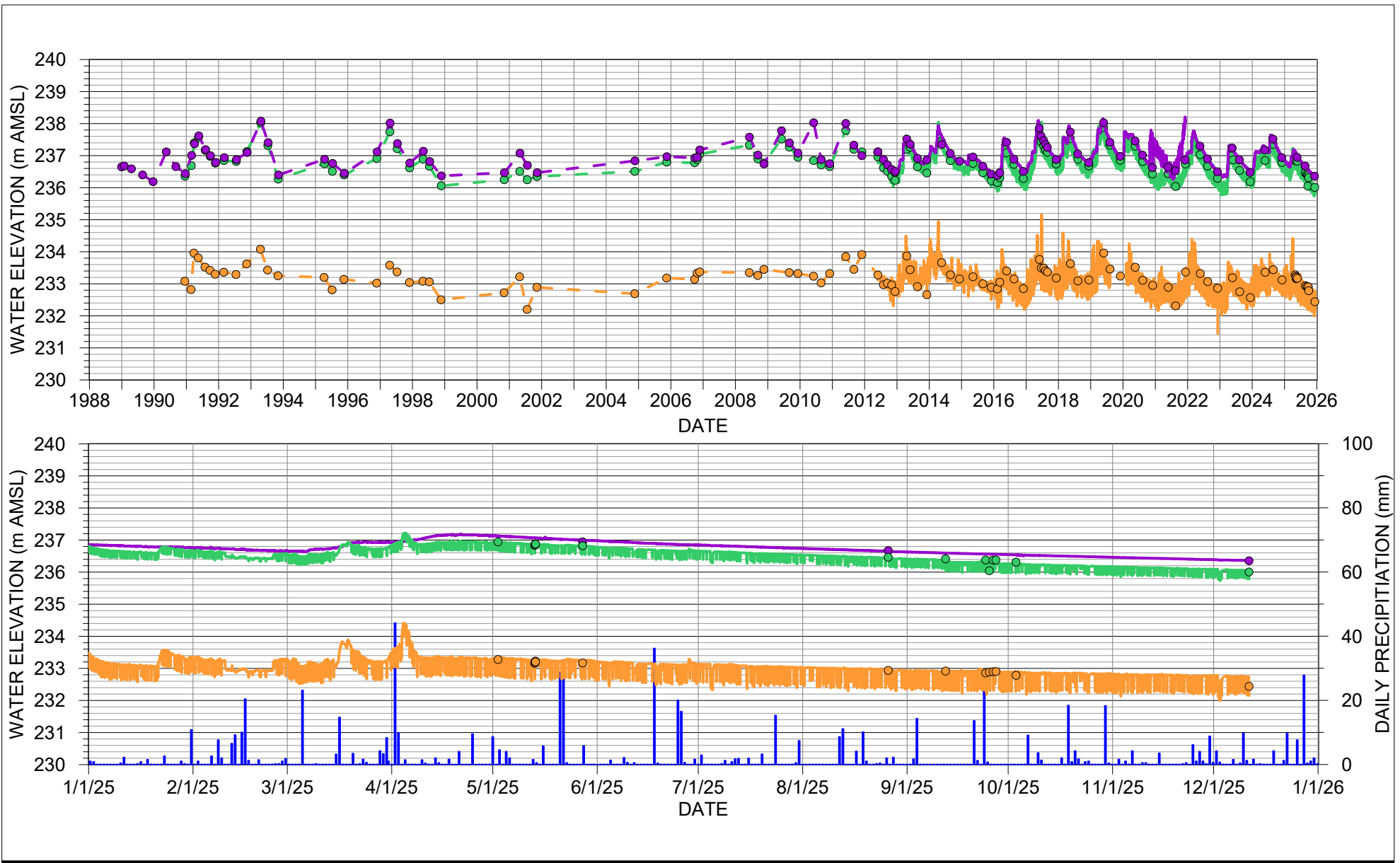


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - BH88-2-I

FIGURE C.2

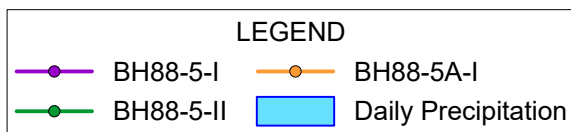
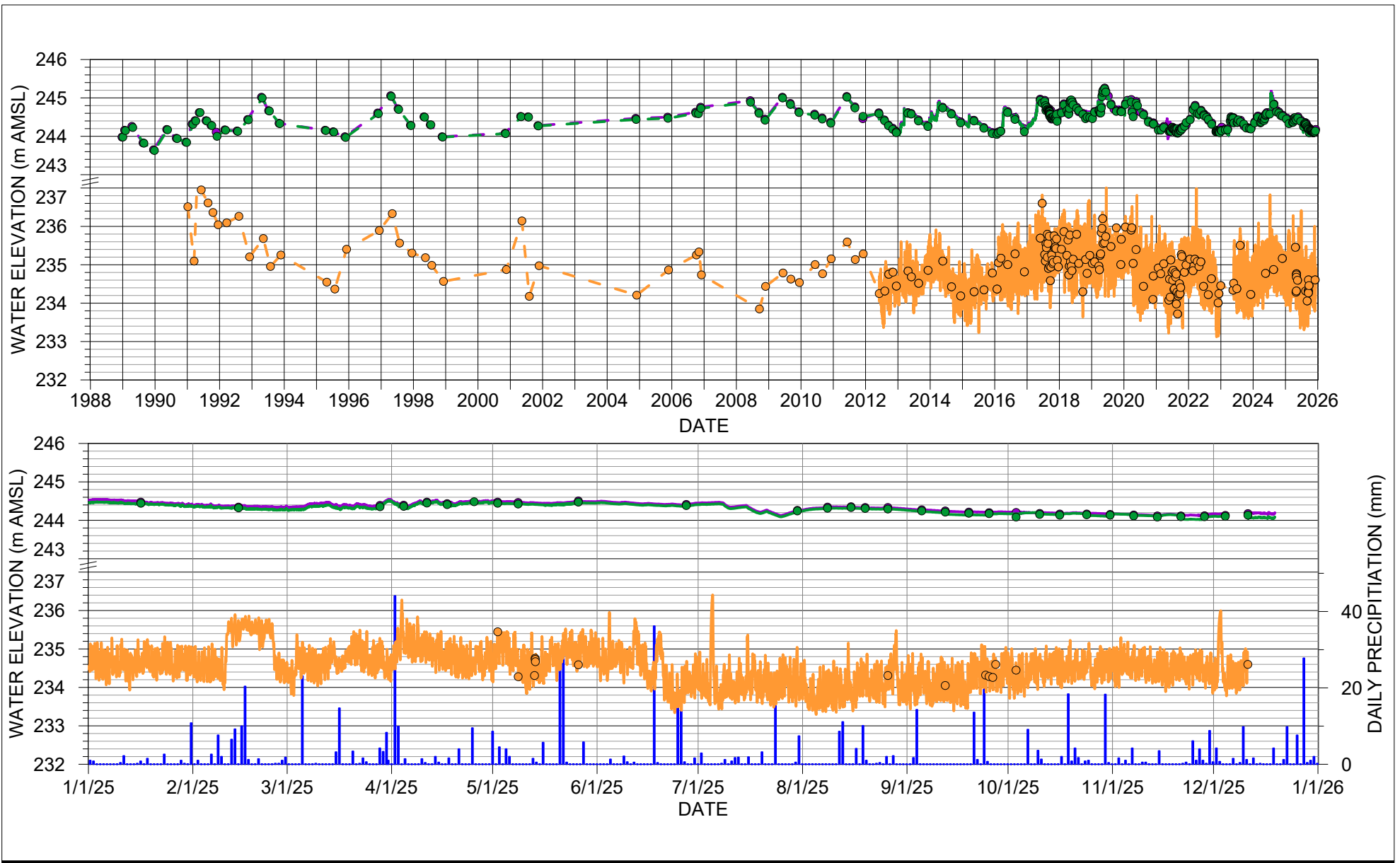


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - BH88-4 NEST

FIGURE C.3

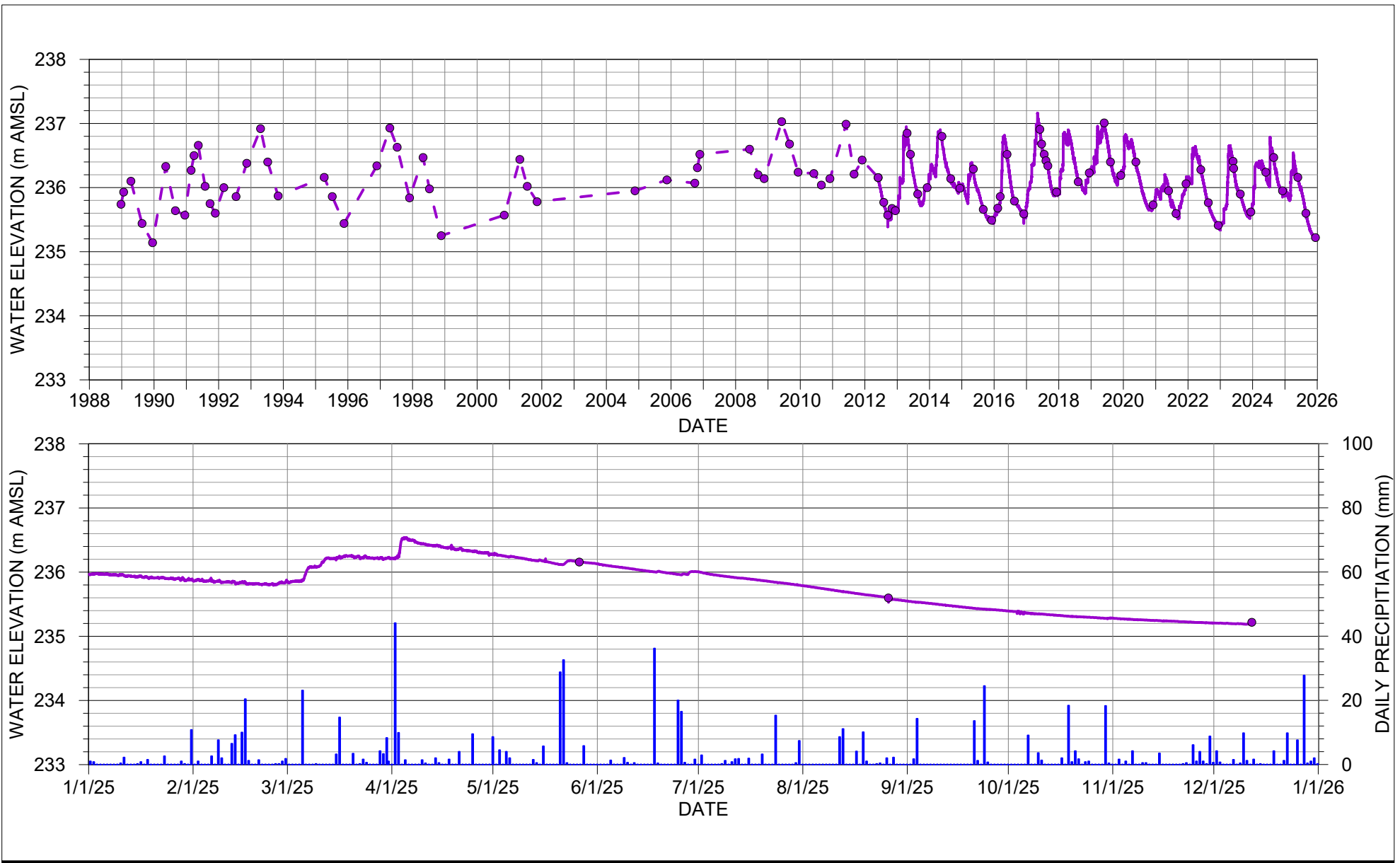


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - BH88-5 NEST

FIGURE C.4

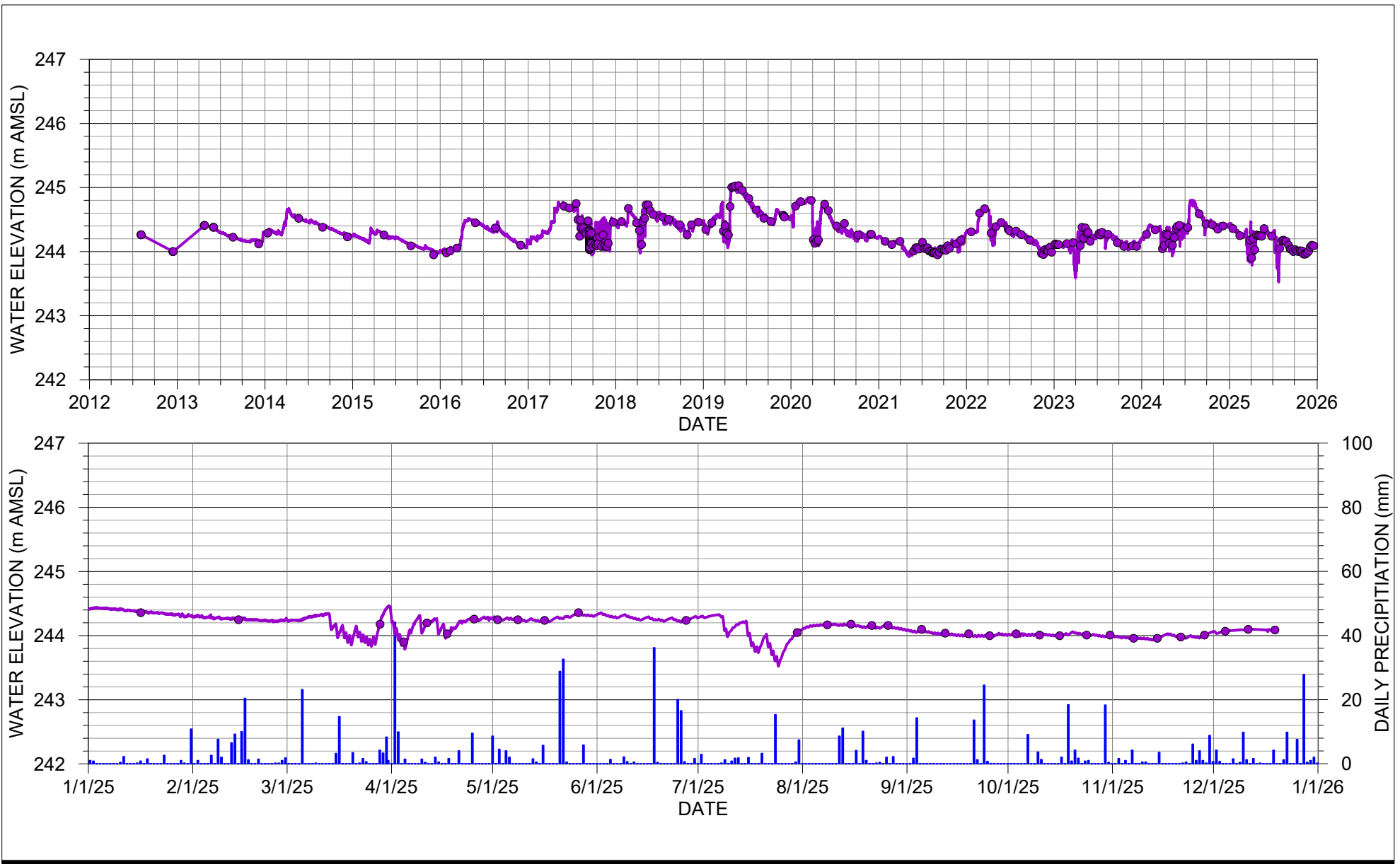


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - BH88-6-I

FIGURE C.5

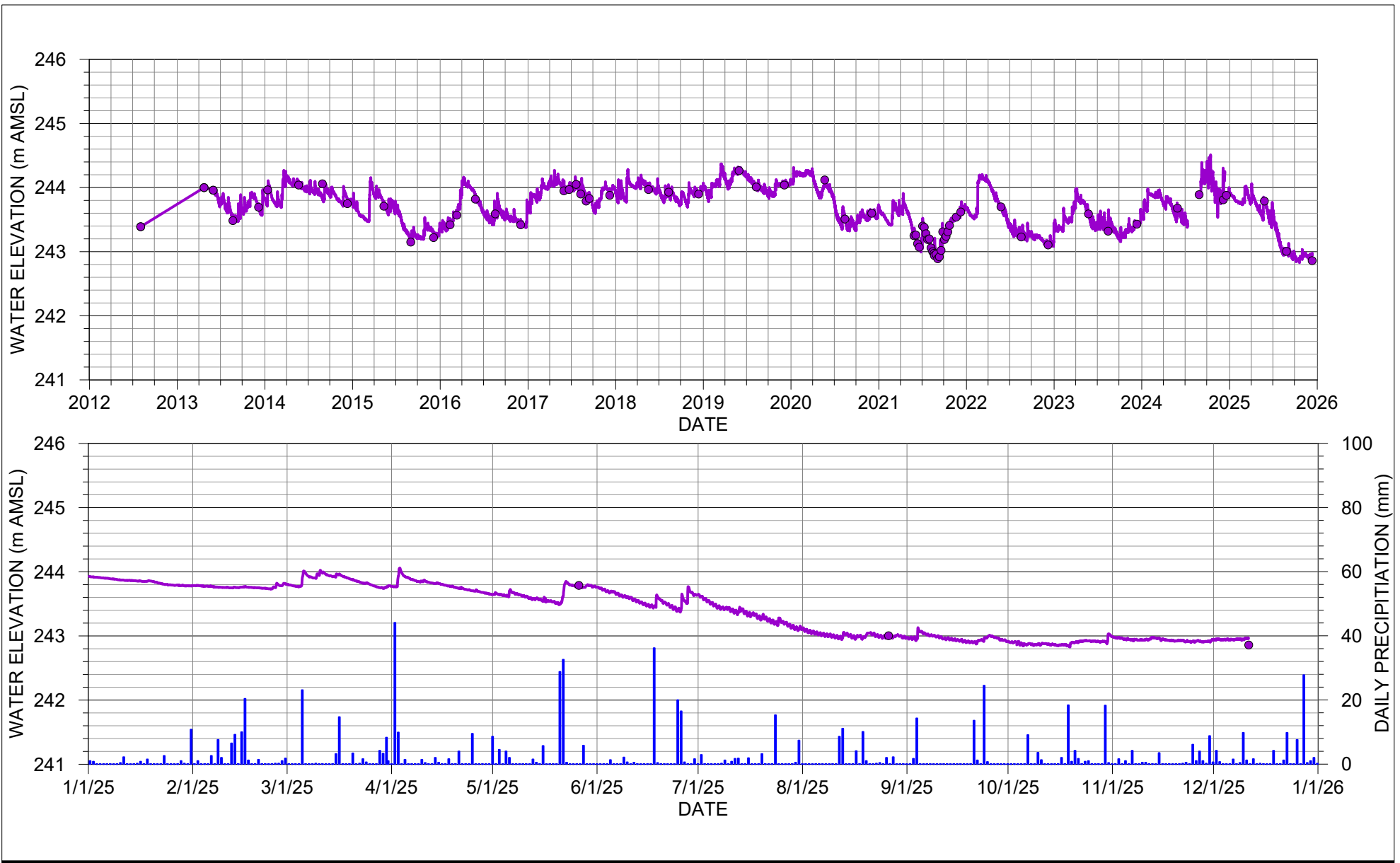


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - MW1-12

FIGURE C.6

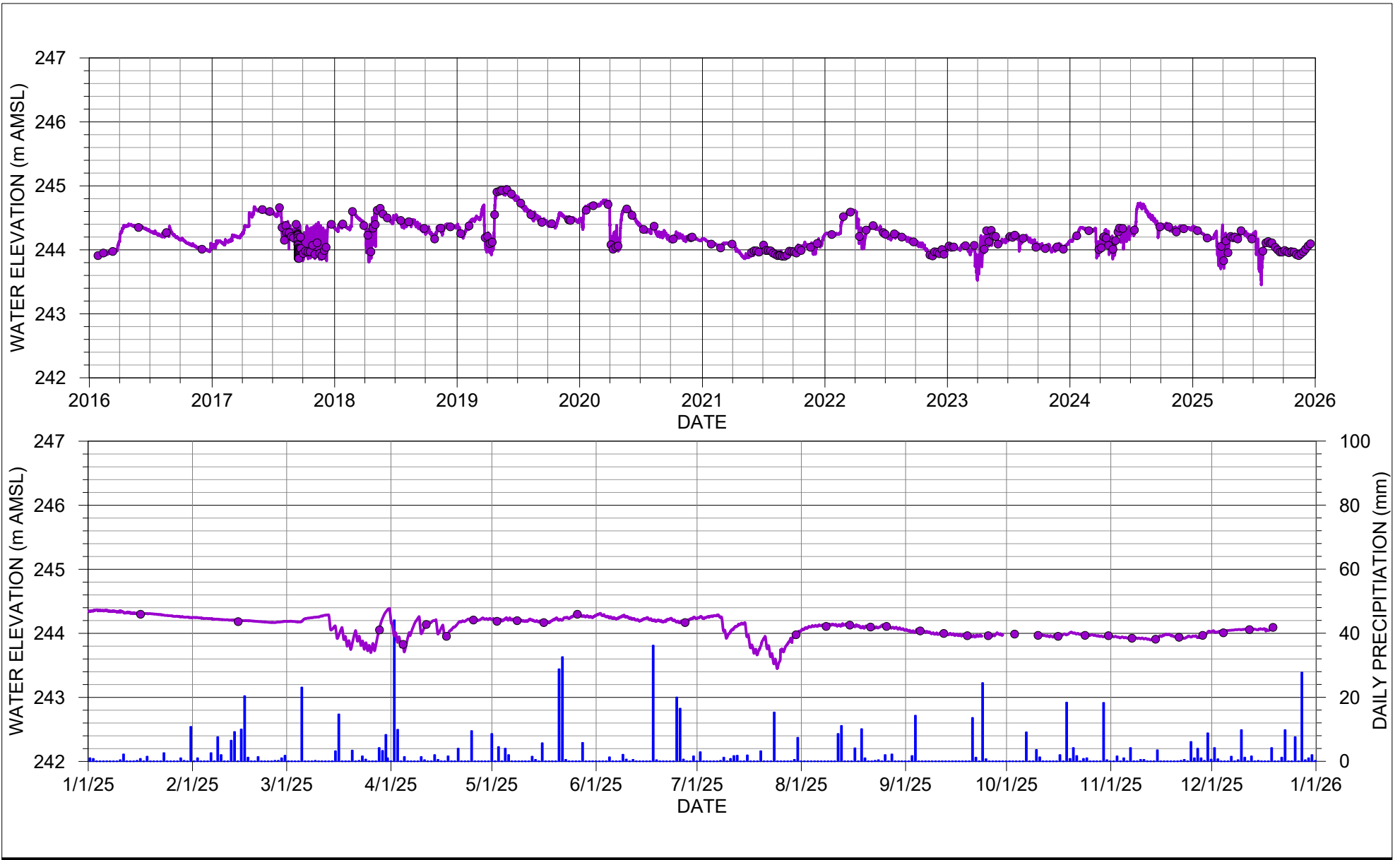


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - MW2-12

FIGURE C.7

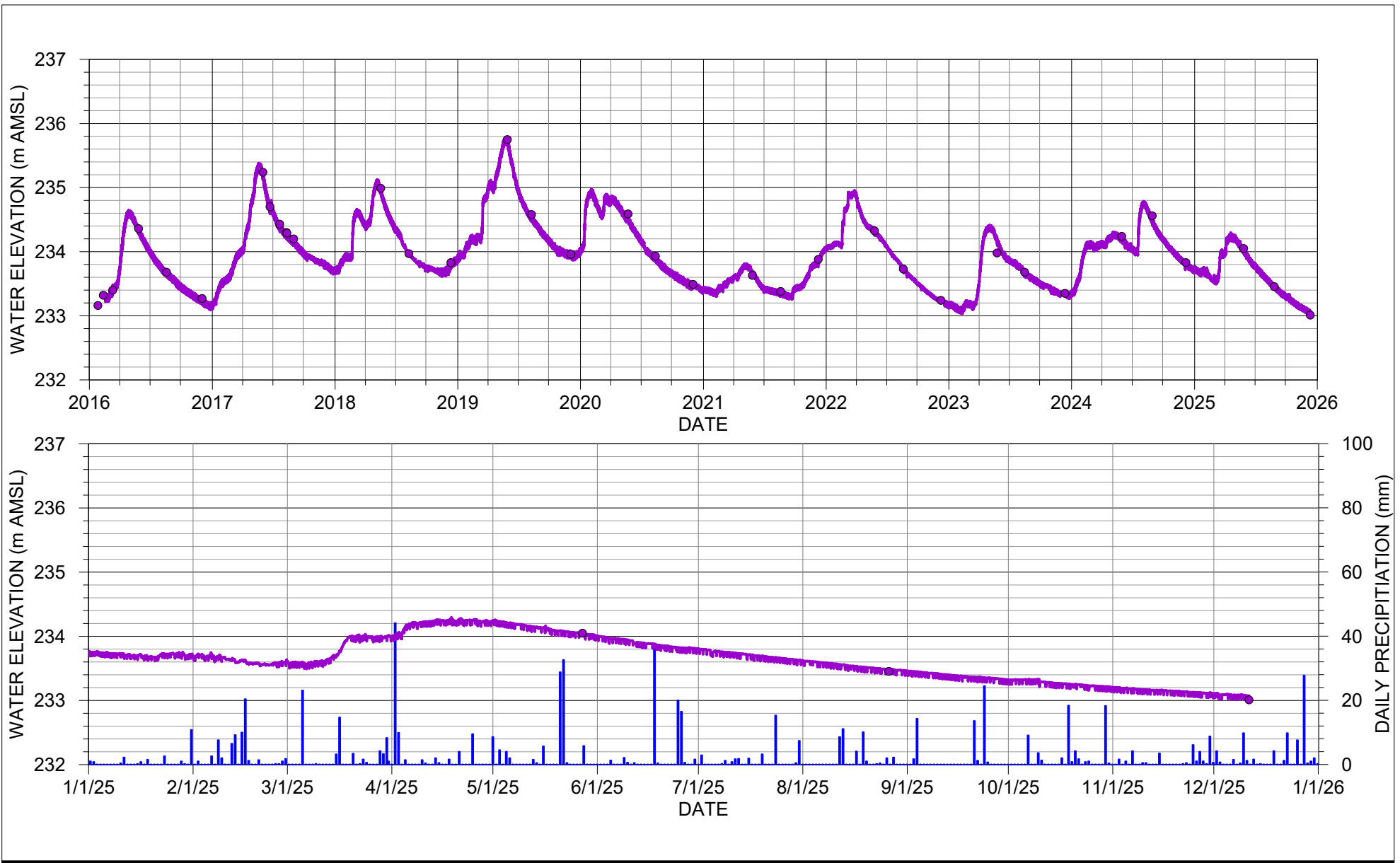


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - MW3-16

FIGURE C.8

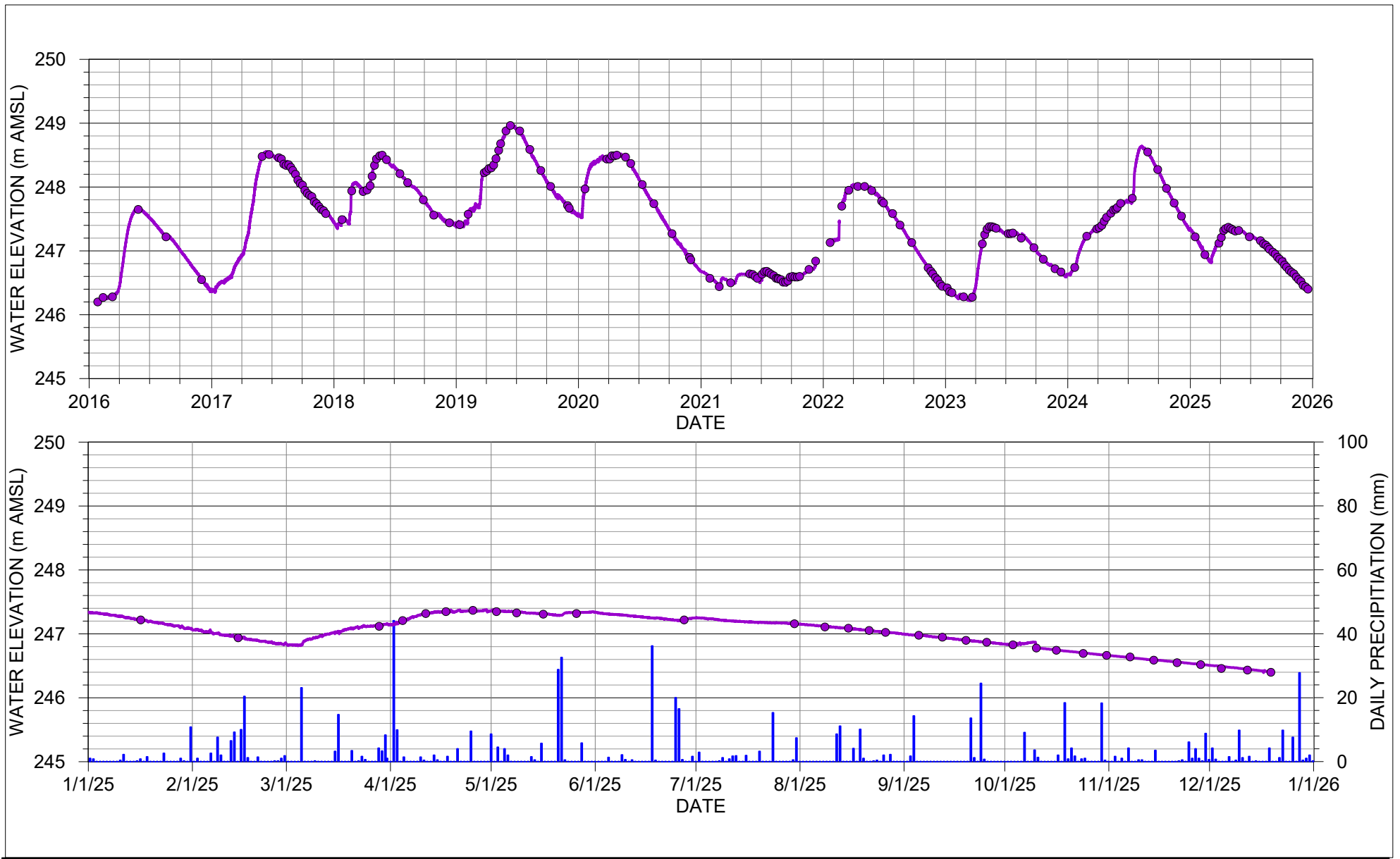


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - MW4-16

FIGURE C.9

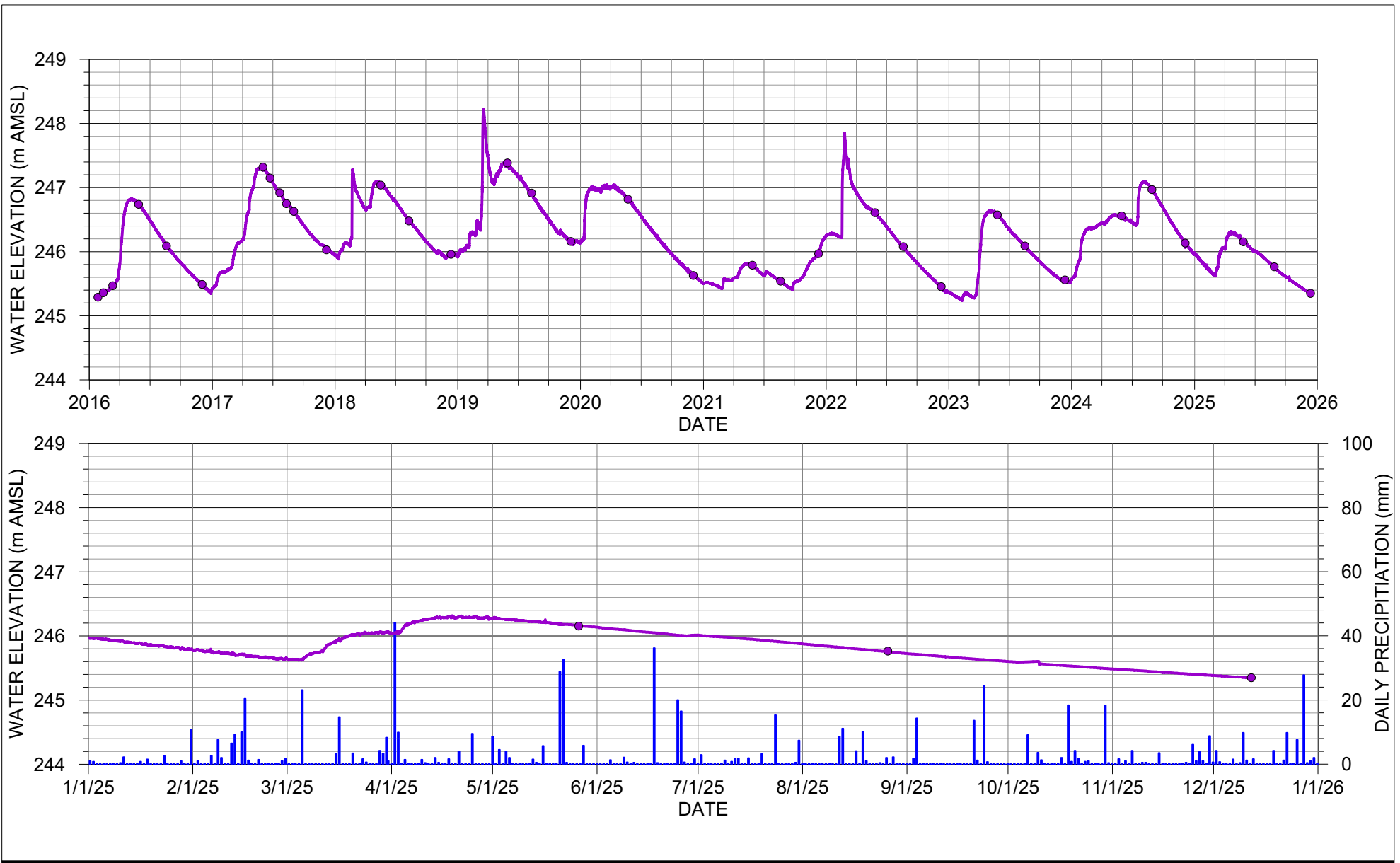


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW5-16

FIGURE C.10

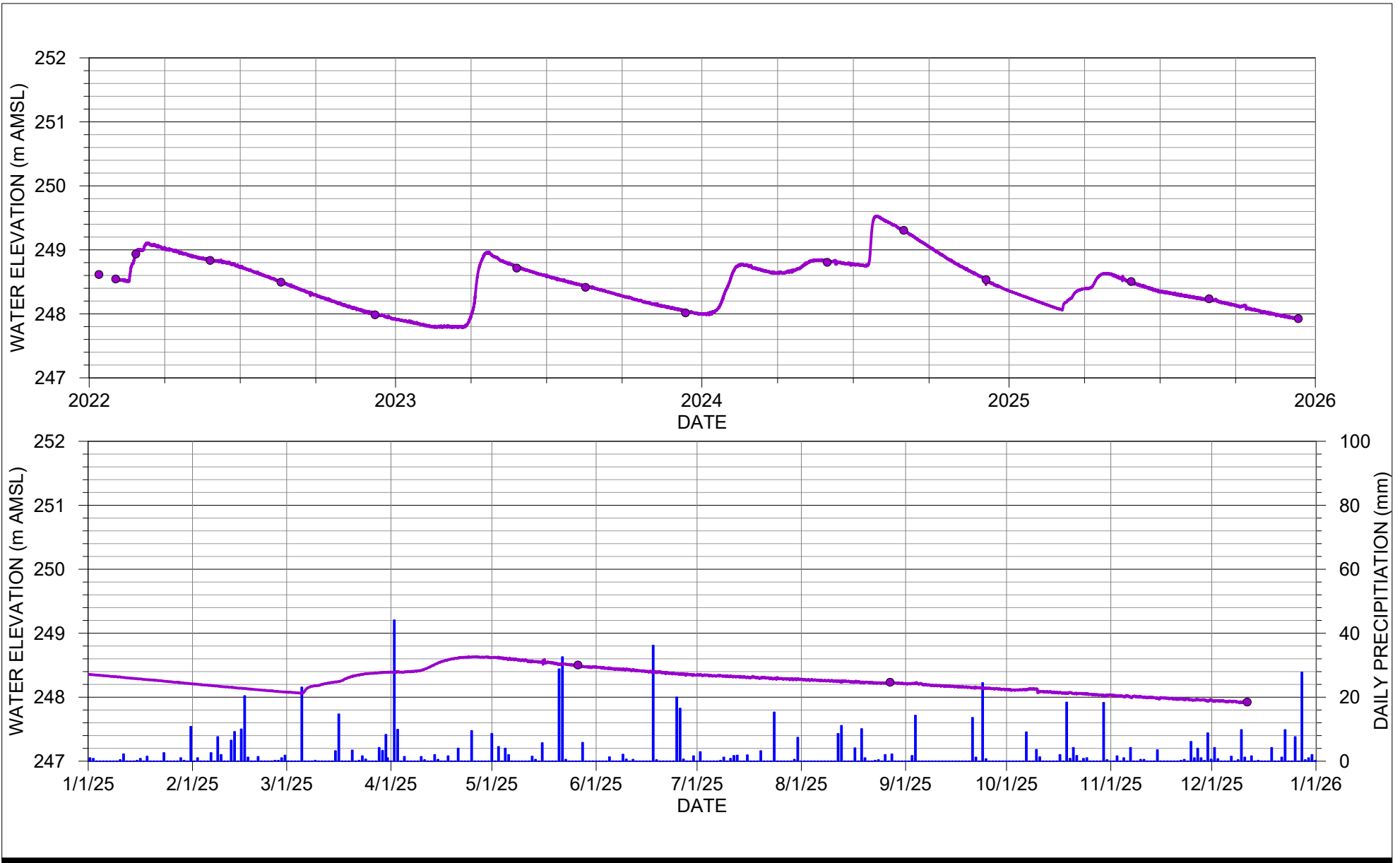


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW6-16

FIGURE C.11

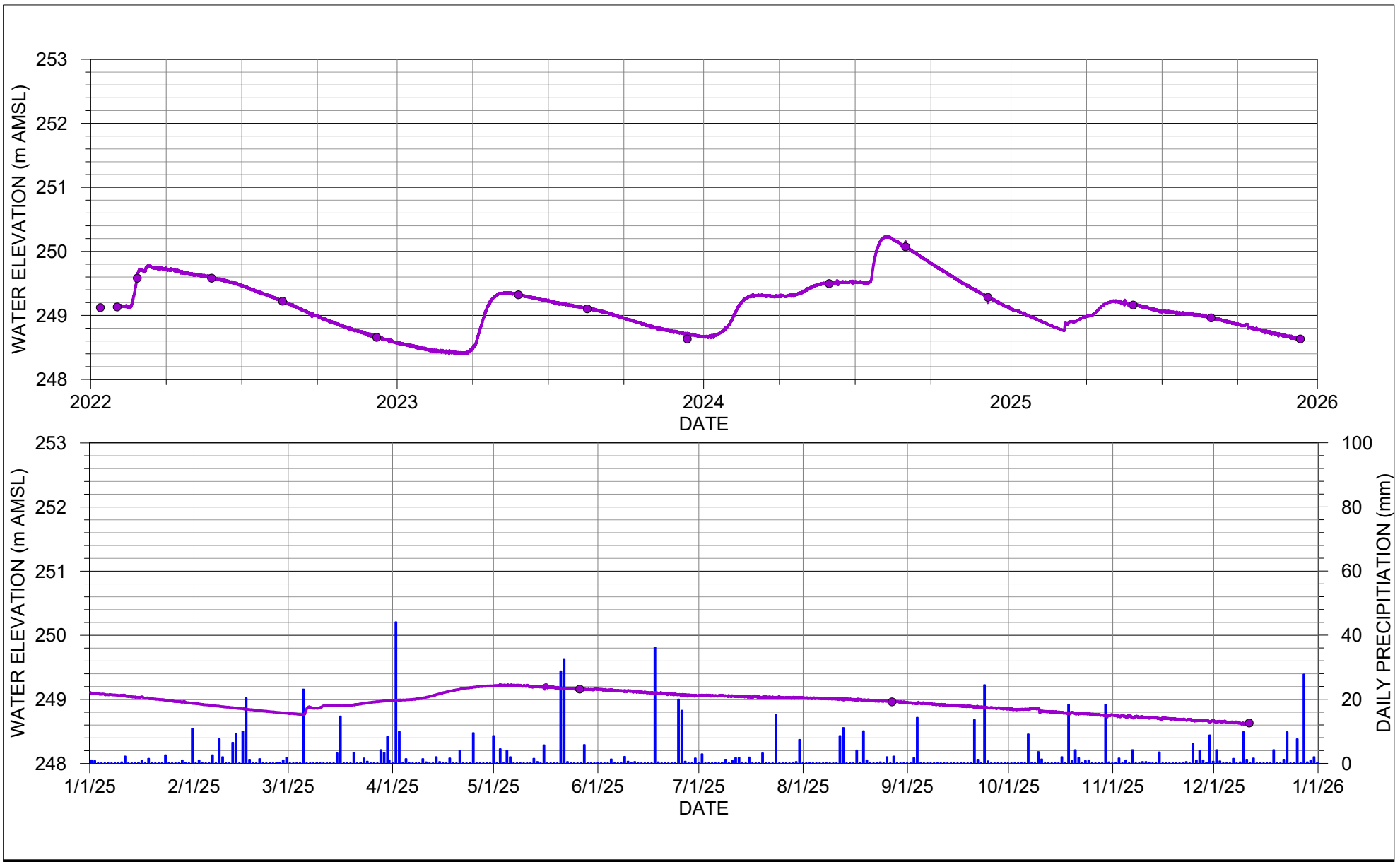


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW8-22

FIGURE C.12

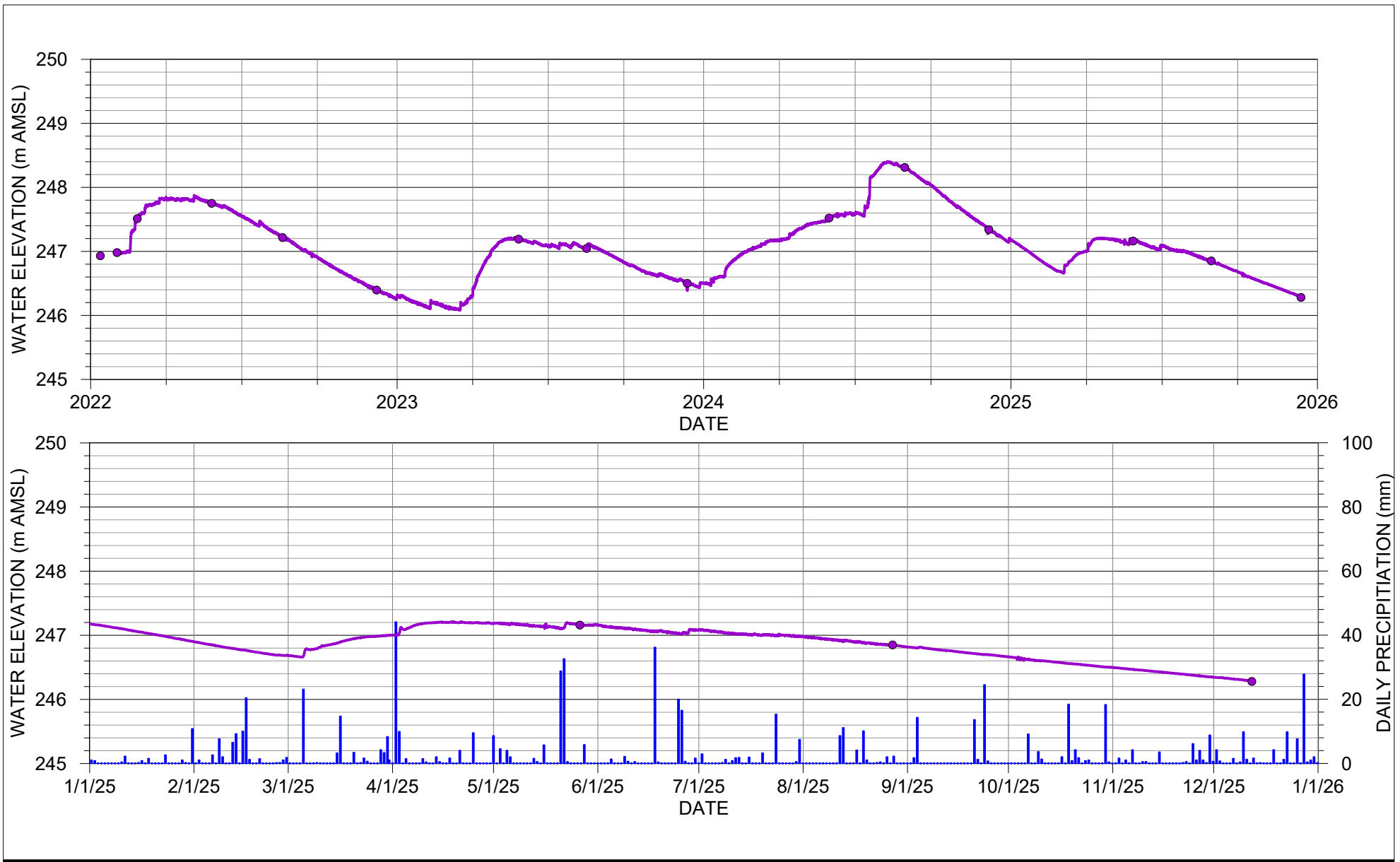


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW9-22

FIGURE C.13

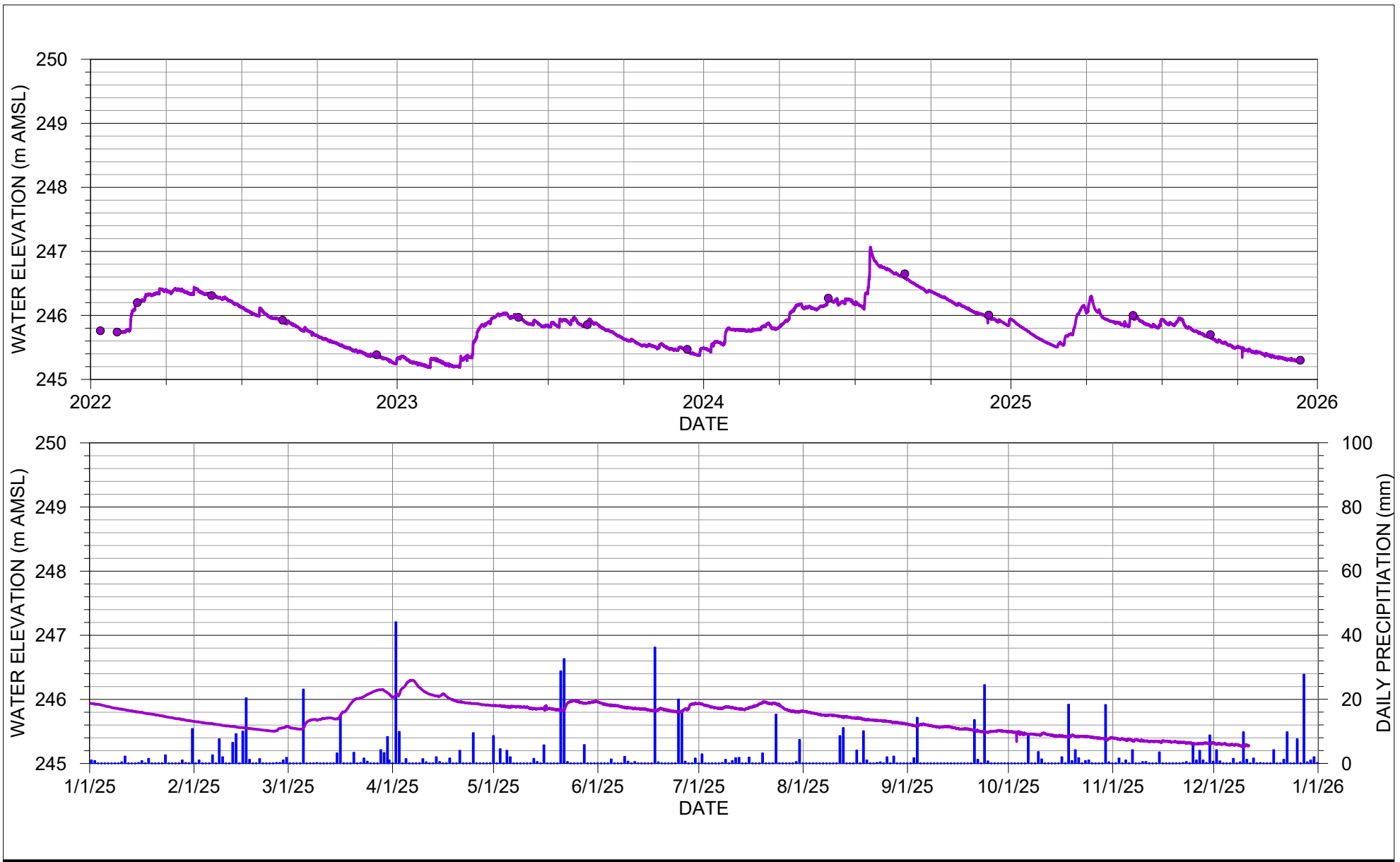


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - MW10-22

FIGURE C.14

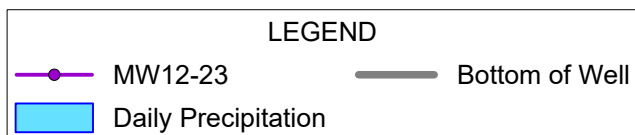
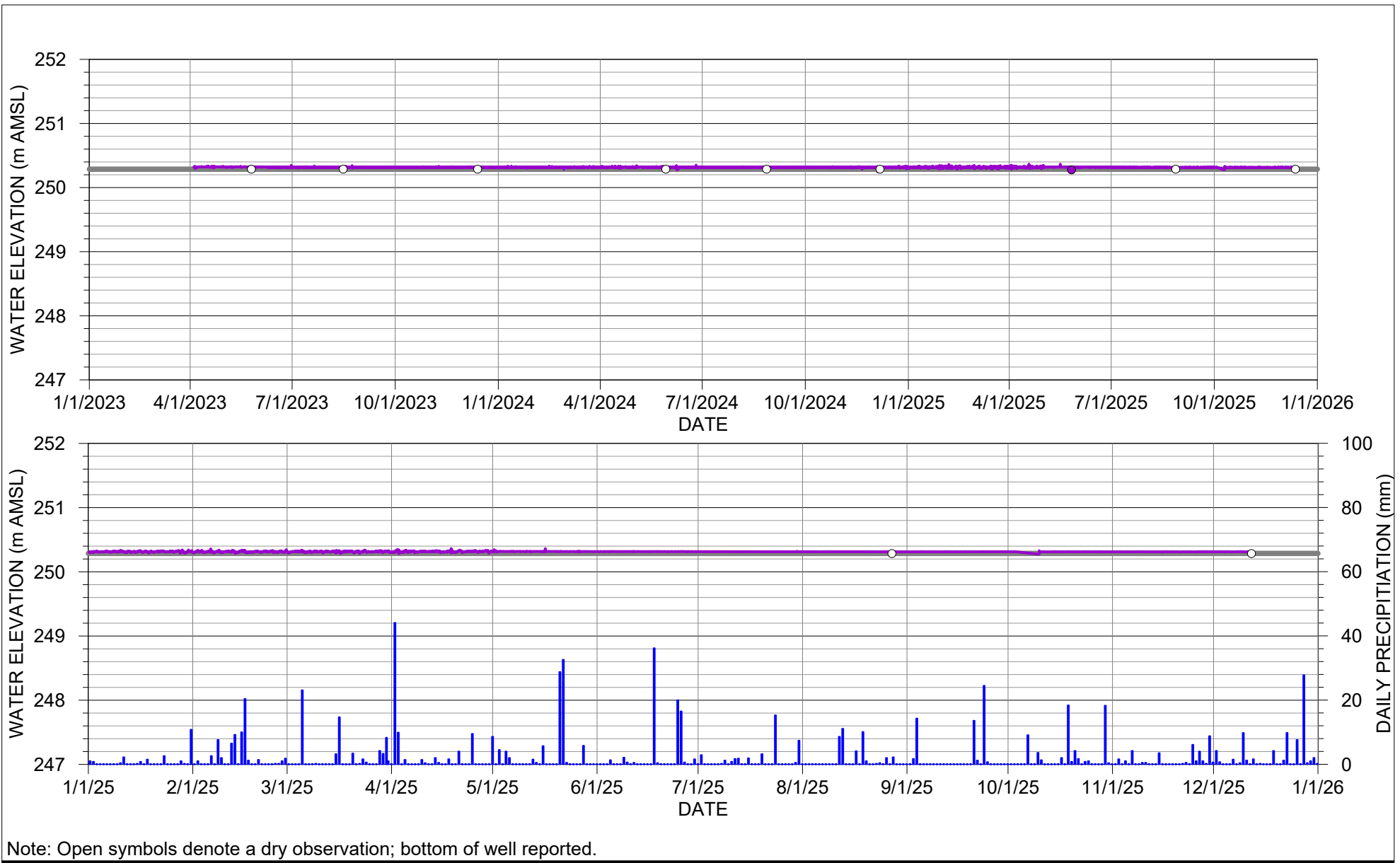


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW11-22

FIGURE C.15

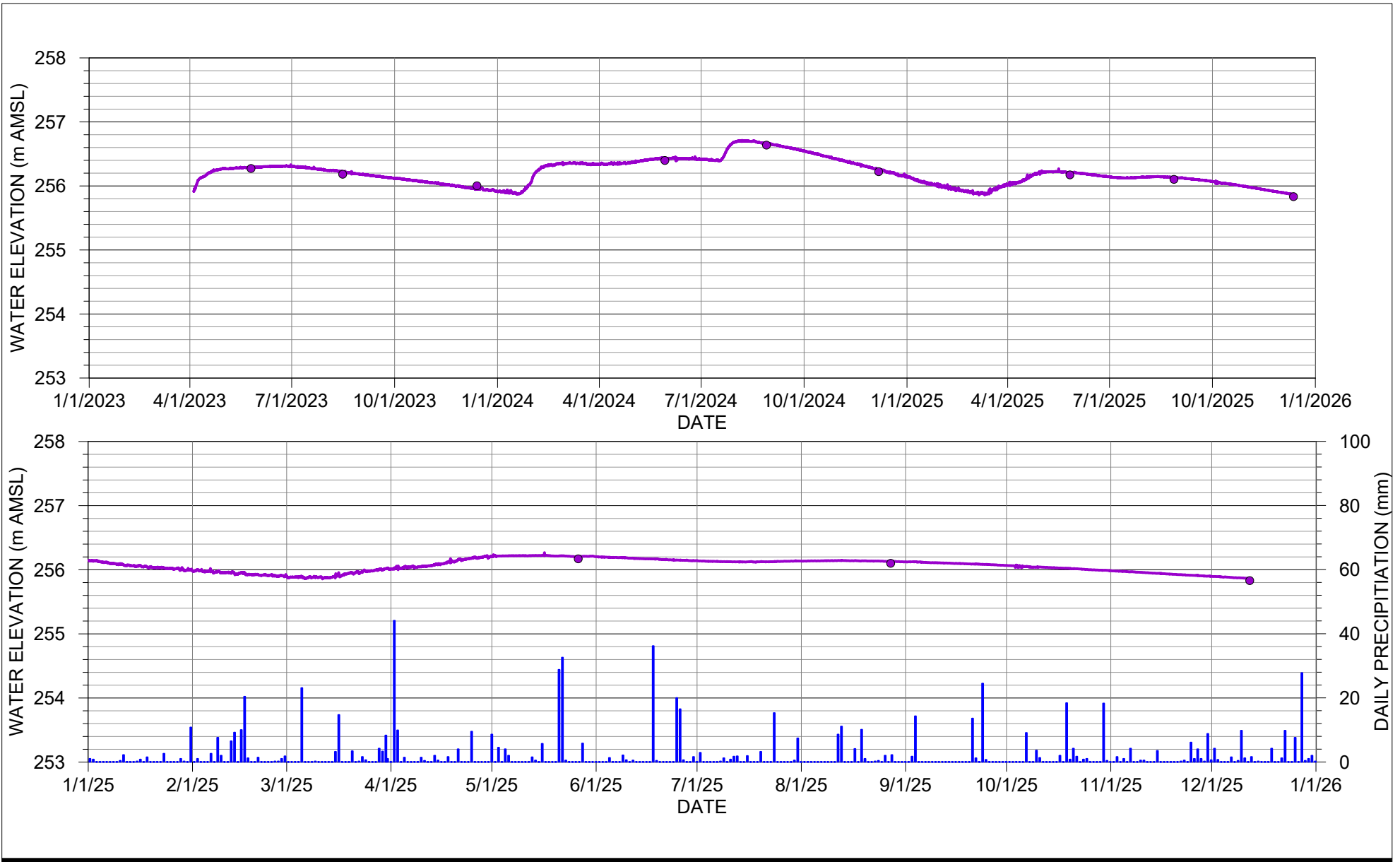


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW12-23

FIGURE C.16

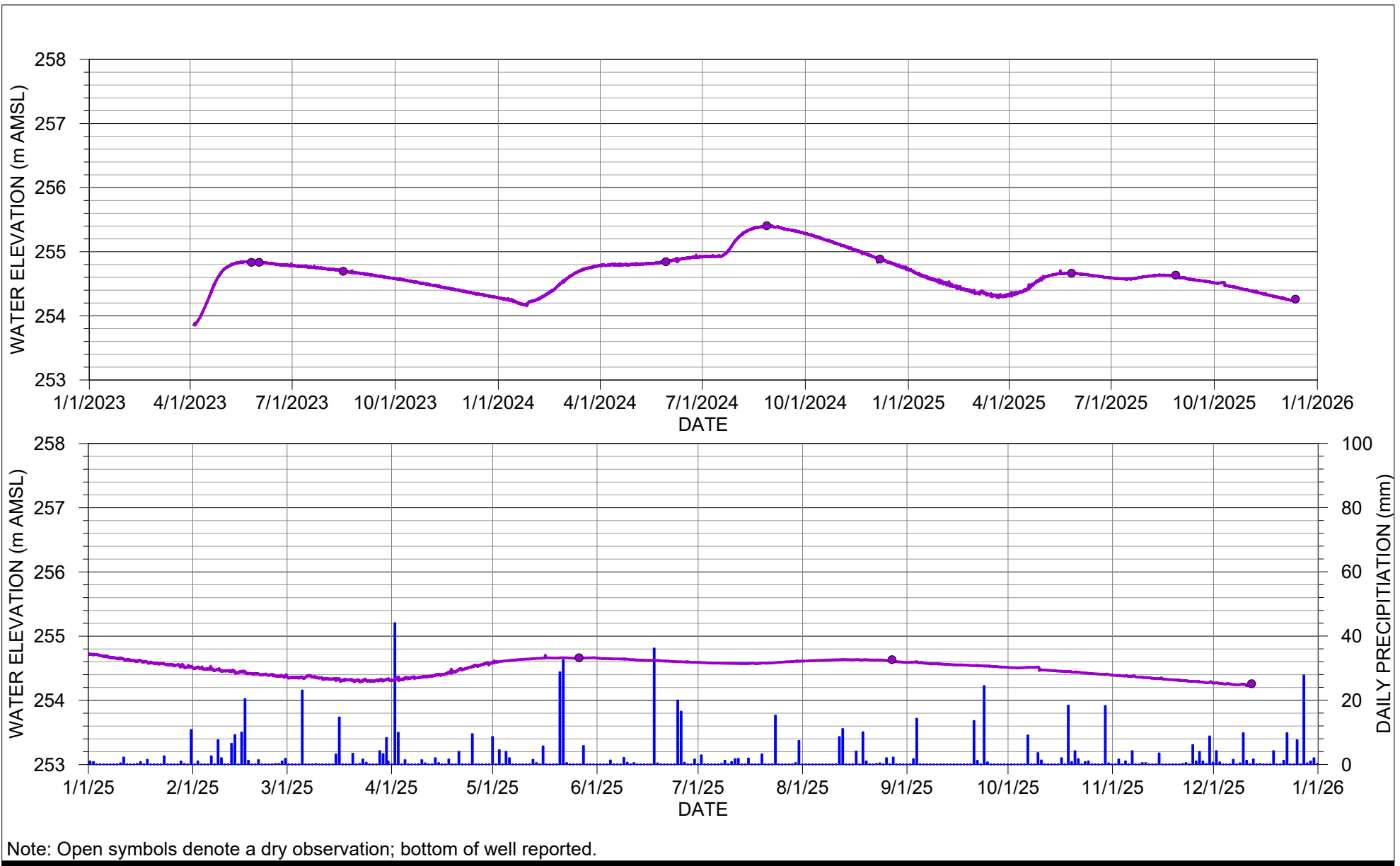


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW13-23

FIGURE C.17

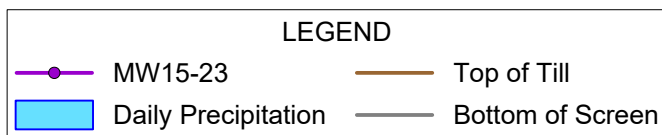
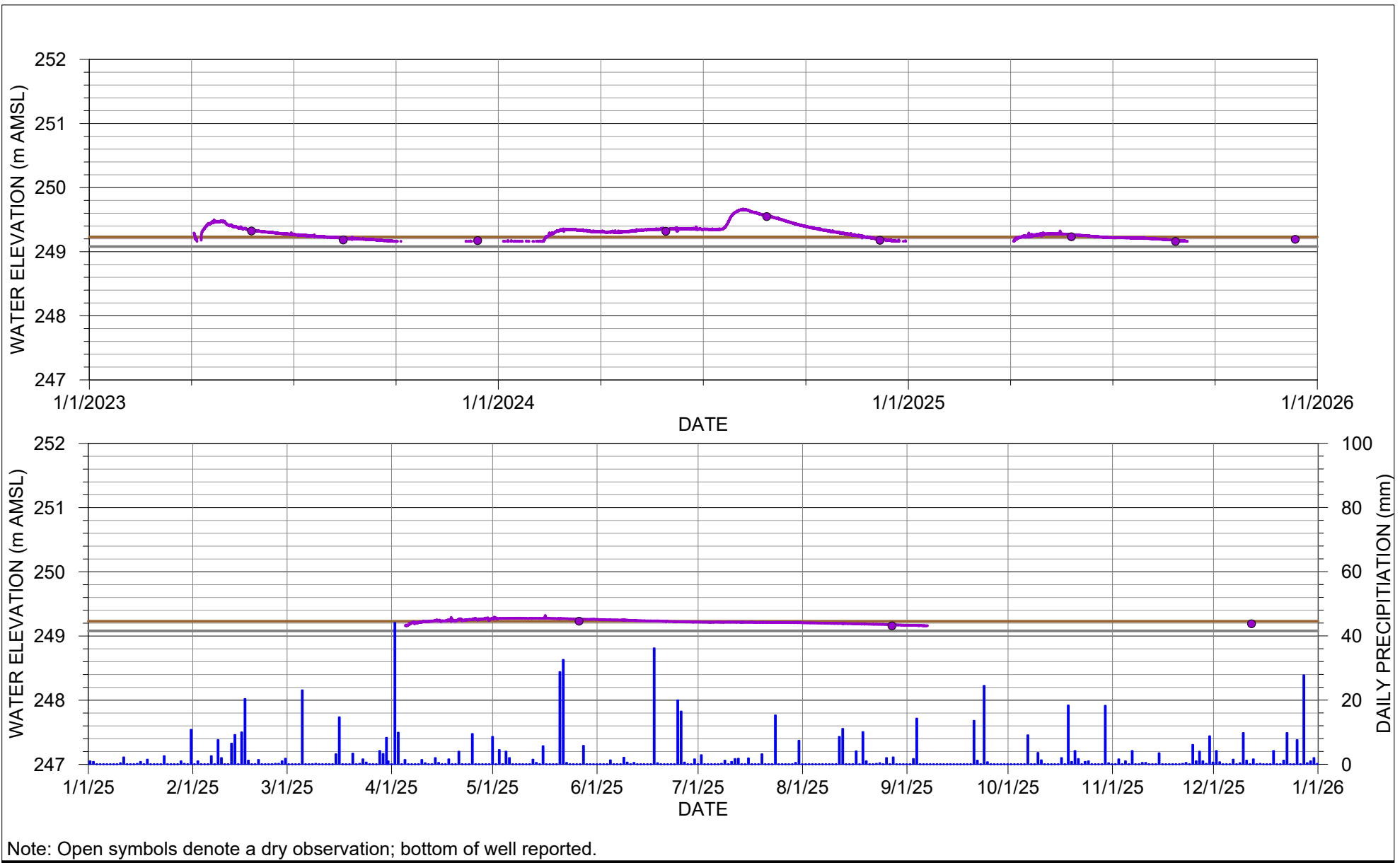


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW14-23

FIGURE C.18

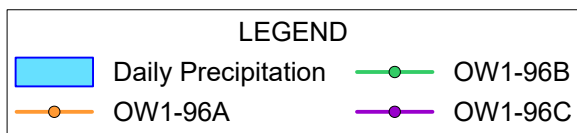
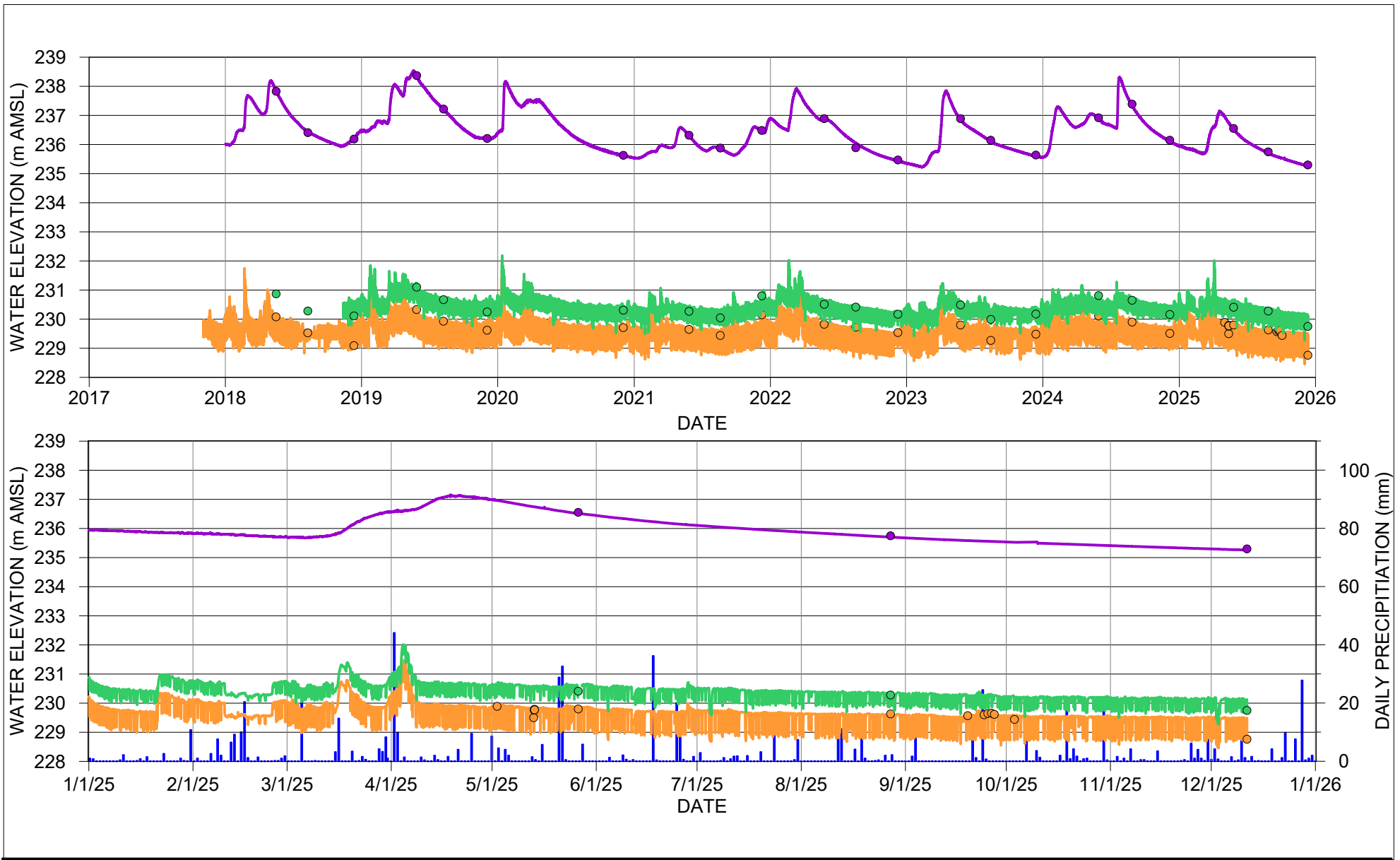


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - MW15-23

FIGURE C.19

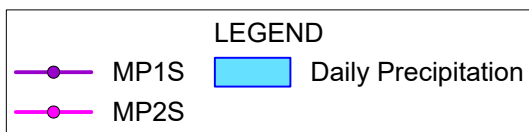
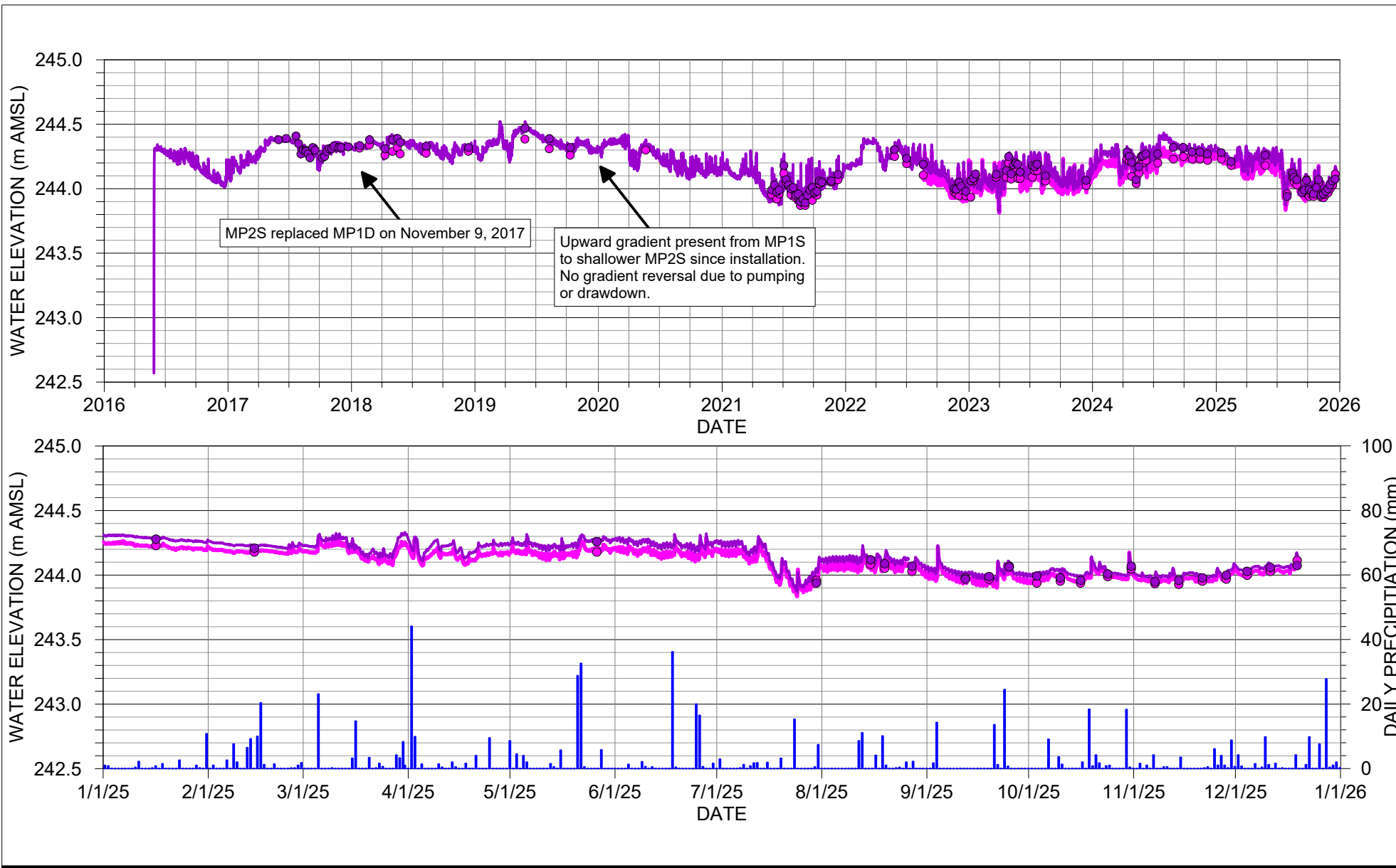


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - OW1-96 NEST

FIGURE C.20

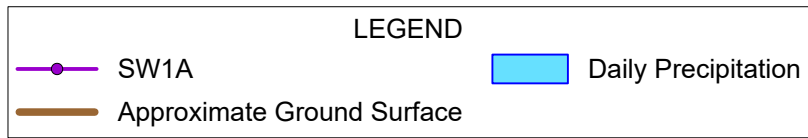
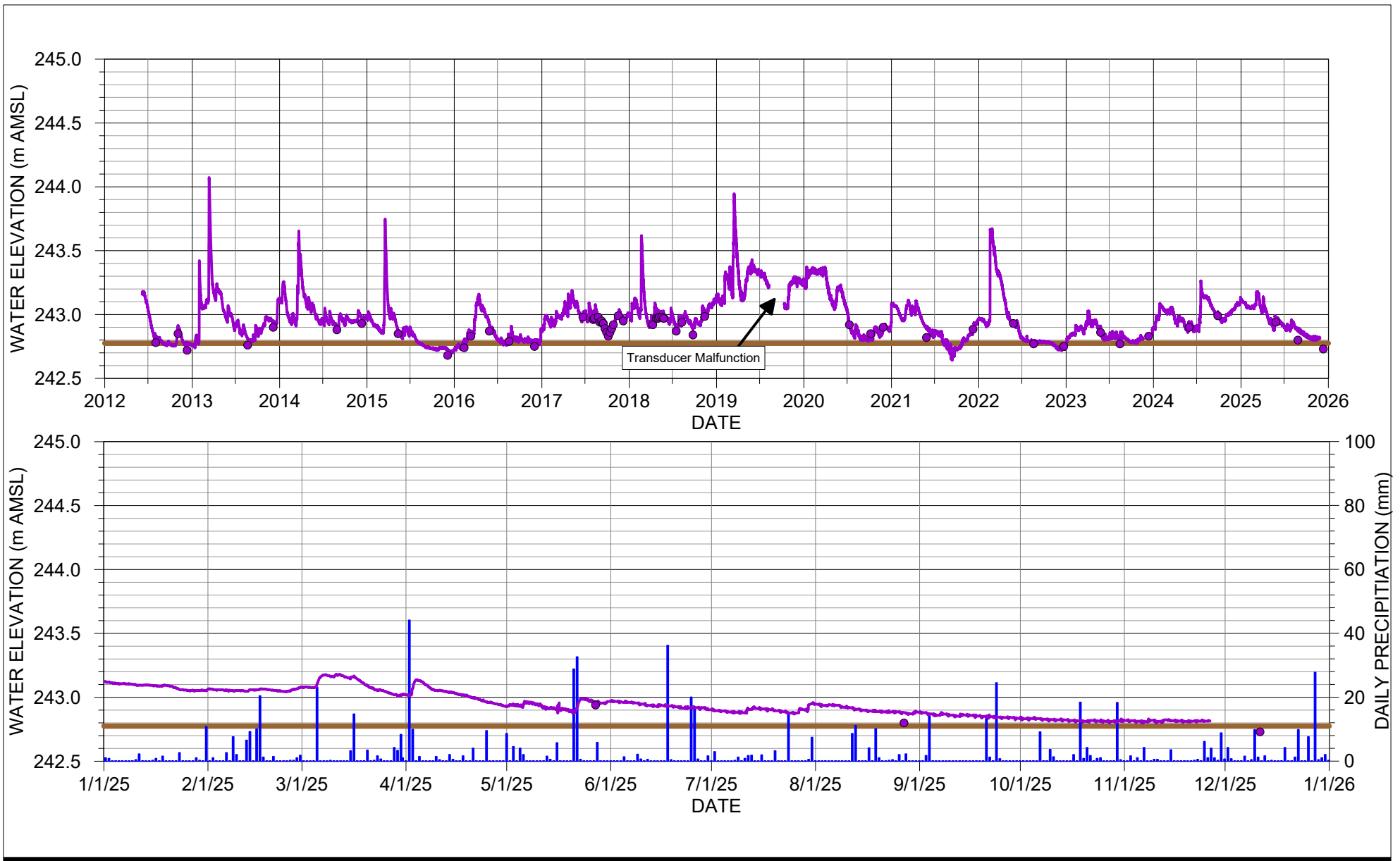


DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH
MULTI-LEVEL PIEZOMETER

FIGURE C.21

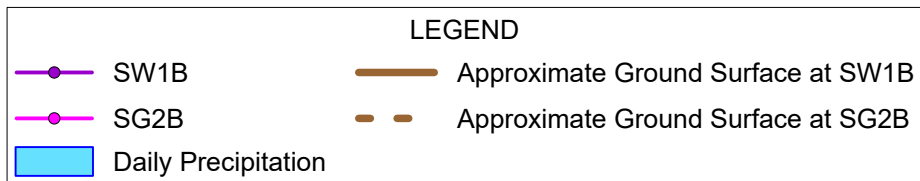
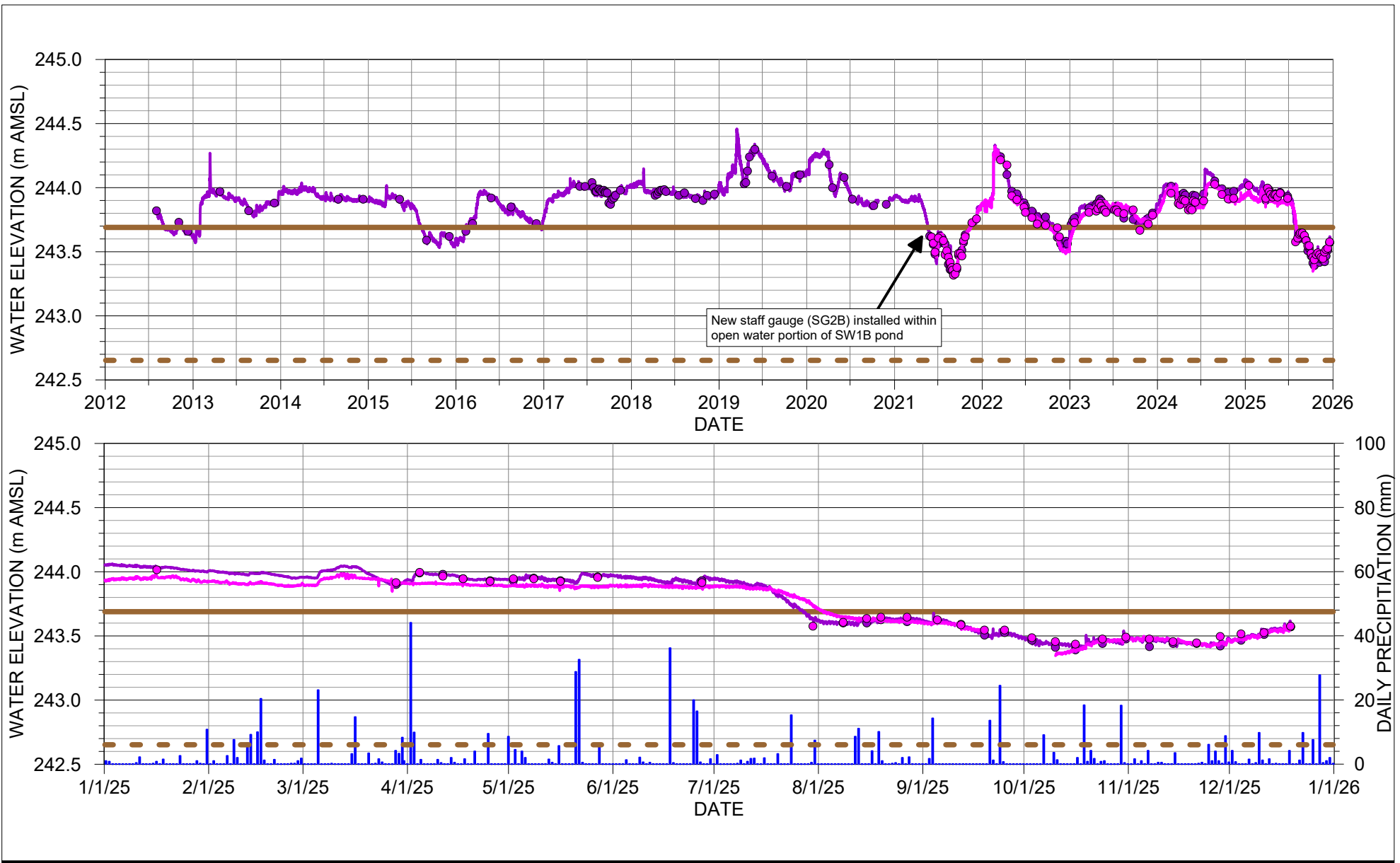


DUFFERIN AGGREGATES - PARIS PIT
 COUNTY OF BRANT, ONTARIO

Project No. 078410-20
 Date January 16, 2026

HYDROGRAPH - SW1A

FIGURE C.22



DUFFERIN AGGREGATES - PARIS PIT
COUNTY OF BRANT, ONTARIO

Project No. 078410-20
Date January 16, 2026

HYDROGRAPH - SW1B

FIGURE C.23