



MEADOWBANK COMPLEX

## **Quality Assurance / Quality Control (QA/QC) Plan**

In Accordance with Water License 2AM-MEA1530 and 2AM-WTP1830

Prepared by:  
Agnico Eagle Mines Limited – Meadowbank Complex

Version 11  
March 2026

## EXECUTIVE SUMMARY

This document presents the Meadowbank and Whale Tail Sites Quality Assurance / Quality Control (QA/QC) Plan, a requirement of the Meadowbank Type A Water License No. 2AM-MEA1530 Part I Item 16 and 2AM-WTP1830 Part I Item 17. This Plan also supports the following conditions of the Meadowbank Project Certificate No. 004 Condition 6 and 23 and the Project Certificate No.008 Condition 8, issued by the Nunavut Impact Review Board (NIRB). The plan has been developed in accordance with the current standard method and with the Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) 1996 *'Guidelines for Use by Class "A" Licensees in Meeting SNP Requirements and for Submission of a QA/QC Plan'*.

The objective of quality assurance and quality control (QA/QC) program is to assure that the chemical data collected are representative of the material being sampled, are of known quality, are properly documented, and are scientifically defensible. Data quality was assured throughout the collection and analysis of samples using specified standardized procedures, by the employment of accredited laboratories, and by staffing the program with experienced technicians.

## **IMPLEMENTATION SCHEDULE**

As required by Water License 2AM-MEA1530 and 2AM-WTP1830 Part B, Item 11, the proposed implementation schedule for this Plan is outlined below.

This Plan will be immediately implemented (March 2026) subject to any modifications proposed by the Analyst or the NWB as a result of the review and approval process.

## **DISTRIBUTION LIST**

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Agnico Eagle Mines – Environment General Supervisor

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## DOCUMENT CONTROL

| Version | Date (YMD) | Section       | Page | Revision                                                                                                     |
|---------|------------|---------------|------|--------------------------------------------------------------------------------------------------------------|
| 1       | 09/01/01   |               |      | Comprehensive plan for Meadowbank Project                                                                    |
| 2       | 14/06/20   |               |      | Comprehensive update of the plan for Meadowbank Project                                                      |
| 3       | 15/09      | 2.2.4         | 4    | Modify Preservation section                                                                                  |
|         |            | 2.2.5         | 5    | Add trip blank and field blank                                                                               |
| 4       | 2019/03    | All           | All  | Integration of Whale Tail Site                                                                               |
| 5_NWB   | 2019/05    | All           | All  | Updated for the Expansion Project in support of the Nunavut Water Board (NWB) Type A Water License Amendment |
| 5       | 2020/03    | All           | All  | Comprehensive review                                                                                         |
| 6       | 2020/07    | All           | All  | Update 60 days following the approval of the Water License 2AM-WTP1830.                                      |
|         |            | Table 2-1     | 5    | Updated to reflect requirement from BV Labs                                                                  |
|         |            | 3.1           | 8    | Updated to reflect current laboratories information                                                          |
|         |            | 4.2           | 9    | Updated to addresses KivIA-WL-IR21 regarding RDP and contamination of blanks                                 |
|         |            | Appendix A    | 12   | Changed for accreditation certificate from BV Lab                                                            |
|         |            | Appendix B    | 11   | New Appendix – Laboratory acceptance letter                                                                  |
| 7       | 2022/03    | Appendix A    | 12   | Added Quebec's laboratory accreditation certificates from BV Lab                                             |
|         |            | Appendix B    | 11   | Reviewed Laboratory acceptance letter                                                                        |
| 8       | 2023/03    | Table 2-2     | 6    | Updated table to include more detail on QA/QC sampling frequency for compliance and groundwater samples.     |
|         |            | Appendix A    | 11   | Updated laboratory accreditation certificates                                                                |
|         |            | Appendix B    | 12   | Reviewed Laboratory acceptance letter                                                                        |
| 9       | 2024/02    | Section 2.2.3 | 3    | Updated to reflect actual groundwater sampling procedure                                                     |
|         |            | Table 2-1     | 5    | Updated the summary of sampling requirements                                                                 |
|         |            | Appendix B    | 12   | Reviewed Laboratory acceptance letter                                                                        |
| 10      | 2025/03    | Appendix A    |      | Updated laboratory accreditation certificates                                                                |
|         |            | Appendix B    |      | Reviewed Laboratory acceptance letter                                                                        |
| 11      | 2026/03    | Appendix A    |      | Updated laboratory accreditation certificates                                                                |
|         |            | Appendix B    |      | Reviewed Laboratory acceptance letter                                                                        |

\*Changes in the latest version of this document have been indicated as a grey line in the left margin.

Prepared By: Environmental Department

Approved By:   
*Eric Haley*  
*Environmental and Critical Infrastructures Superintendent*

## TABLE OF CONTENTS

|                                                            |          |
|------------------------------------------------------------|----------|
| <b>SECTION 1. INTRODUCTION.....</b>                        | <b>1</b> |
| <b>SECTION 2. FIELD SAMPLING .....</b>                     | <b>2</b> |
| 2.1 SAMPLING EQUIPMENT .....                               | 2        |
| 2.2 SAMPLING METHODS AND HANDLING .....                    | 2        |
| 2.2.1 Sample Identification .....                          | 2        |
| 2.2.2 Surface Water Sampling .....                         | 3        |
| 2.2.3 Groundwater Well Sampling .....                      | 3        |
| 2.2.4 Preservation .....                                   | 4        |
| 2.2.5 Field Duplicates, Field Blanks and Trip Blanks ..... | 6        |
| 2.2.6 Sample Transport .....                               | 7        |
| <b>SECTION 3. LABORATORY ANALYSIS.....</b>                 | <b>8</b> |
| 3.1 EXTERNAL LABORATORY .....                              | 8        |
| 3.2 INTERNAL LABORATORY .....                              | 8        |
| <b>SECTION 4. DATA REQUIREMENTS .....</b>                  | <b>9</b> |
| 4.1 DATA COLLECTION .....                                  | 9        |
| 4.2 DATA VERIFICATION .....                                | 9        |
| 4.3 EXCEEDENCE REPORTING .....                             | 10       |

## LIST OF TABLES

|                                                   |   |
|---------------------------------------------------|---|
| Table 2-1: Summary of Sampling Requirements ..... | 5 |
| Table 2-2: Quality Control Sample Frequency ..... | 6 |

## LIST OF APPENDICES

Appendix A: Bureau Veritas Accreditation Certificates  
Appendix B: Bureau Veritas Acceptance Letter

## SECTION 1. INTRODUCTION

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The objective of the quality assurance and quality control (QA/QC) program is to assure that the chemical data collected are representative of the material being sampled, are of known quality, are properly documented, and are scientifically defensible. Data quality was assured throughout the collection and analysis of samples using specified standardized procedures, by the employment of accredited laboratories, and by staffing the program with experienced technicians.

This Plan documents the QA/QC program for the Meadowbank Complex required by Type A Water License 2AM-MEA1530 and 2AM-WTP1830. It has been developed in accordance with the current standard method and with the Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) 1996 '*Guidelines for Use by Class "A" Licensees in Meeting SNP Requirements and for Submission of a QA/QC Plan*', which includes the following definitions:

*Quality Assurance: the system of activities designed to better ensure that quality control is done effectively; and*

*Quality Control: the use of established procedures to achieve standards of measurement for the three principal components of quality – precision, accuracy and reliability.*

This QA/QC Plan sets out standard procedures for sample and data collection with respect to surface water and groundwater sampling in support of monitoring programs outlined in the *Water Quality and Flow Monitoring Plan*, *Groundwater Monitoring Plan* and *Core Receiving Environment Monitoring Program (CREMP)*. Specific QA/QC details are also detailed in each of these programs. The QA/QC plan will be reviewed as needed and updated as required by the Environment General Supervisor.

Section 2 includes procedures for field sample collection and handling, Section 3 outlines external and internal laboratory requirements and Section 4 sets out data verification procedures and regulatory reporting requirements.

## **SECTION 2. FIELD SAMPLING**

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Sampling stations, frequency, and parameters are set out in Type A Water License 2AM-MEA1530 and 2AM-WTP1830 Schedule I – Conditions Applying to General and Aquatic Effects Monitoring<sup>1</sup> and Metal and Diamond Mining Effluent Regulations (MDMER). All sampling stations have a GPS location and are landmarked. All stations are used repeatedly with the same qualified personnel and techniques to reduce operational errors. The following sections outline the standard procedures for collection and handling of all surface water and groundwater samples.

### **2.1 SAMPLING EQUIPMENT**

Laboratory supplied containers are used for sample collection. The bottles are either polyethylene plastic or glass, dependent on the specific parameter being analyzed.

Different handheld instruments are used to collect, as required, field parameters such as turbidity, temperature, pH, conductivity, and dissolved oxygen. Instruments are calibrated regularly to ensure optimal performance and calibration results are recorded for future reference, if needed. Calibration and maintenance procedures are followed as set out by the supplier's operation manual. Equipment and bottles are selected so that they do not contaminate or alter the concentrations of parameters of interest according to laboratory standards.

For the groundwater sampling, CREMP sampling, and to collect water samples at depth from the surrounding lake receiving and references environments, a pump with tubing is used. Low Density Poly Ethylene (LDPE) tubing (groundwater only), filter apparatus, vacuum pump and tubing, and ashless filter paper are used to filter water for chlorophyll and 0.45 um disk filters and syringes are used as inline filter for dissolved metal and/or for depth integrated sampling (i.e. chlorophyll a, phytoplankton or biological oxygen demand).

### **2.2 SAMPLING METHODS AND HANDLING**

#### **2.2.1 Sample Identification**

All samples have a unique sample identification name based on a station identifier, date, and time of collection. For duplicate, field blank, and trip blank, the sample identification is still based on the station identifier, date and time but followed by DUP (duplicate), FB (field blank) or TB (trip blank).

All sample bottles are identified with the sample identification and date of collection. This information is marked on a label with a water-resistant pen or printed labels and affixed to the sample bottle. Additional information like time of sampling, parameters to analyze, and field measures parameters (temperature, pH) are included in the analysis request that will be sent to the accredited laboratory.

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<sup>1</sup> Refer to Meadowbank Water Quality Flow and Monitoring Plan Section 2.3 and Whale Tail Water Quality and Flow Monitoring Plan Section 2.3 for more detailed description of station locations and both Meadowbank and Whale Tail Type A License Schedule I – Tables 1 and 2. The actual location of each sampling site will be marked with a highly visible stake with appropriate signage attached that will define the exact location of the collection point.

## **2.2.2 Surface Water Sampling**

The bottles are pre-labelled with the required sample identification before going on the field. Surface grab samples are collected by submerging the sample bottle to the stream/lake. For sumps, diversion ditches, and piped discharge points, samples are collected below the surface of the water.

Sample bottles are provided by the accredited laboratory. Bottles are received pre-rinsed and pre-preserved or pre-rinsed with vials of preservative that are added in the field by qualified personnel. In the case that bottles are not pre-preserved and pre-rinsed, field bottles are rinsed three times with sample water before filling. When sampling bottle contains preservative, the bottle is filled by using another clean bottle to avoid any release of preservative. Sometimes, a preservative is added after filling as directed by the laboratory; see Section 2.2.4 for more detail on preservation. The bottles are filled properly to allow mixing, preservative addition, and thermal expansion.

Samples analyzed for dissolved metals are filtered through ashless filter paper at the time of collection when the delay before analysis will exceed the parameter holding time. However, when the delay before analyses is potentially within the holding time, the sample can be filtered at the accredited laboratory before analyses. For chlorophyll A analysis, the sample is filtered through the ashless filter paper or sent directly to the laboratory if within the holding time. If needed, samples can be frozen to prevent parameter degradation.

## **2.2.3 Groundwater Well Sampling**

### Well Preparation for Sampling

At the time of purging and sampling, the heat trace cables are activated to warm the well pipe. Once the well has been thawed, the well is purged.

### Well Purging

Depending on the depth of the well, purging is performed by inserting a ¾" LDPE Waterra tube to approximately 20 meters below the water surface and using compressed inert gas (nitrogen) to lift water from the well. The wells are purged to remove standing water inside the well and to induce the flow of fresh groundwater from the rock formation. The Waterra tube is lowered to 20 meters below the remaining water and a compressor is used to completely dry the well. The quality of the purged water is monitored for pH, conductivity, temperature, water clarity, and colour (visual observation) during this activity. Three (3) well volumes of water between the in-well packer and bottom of screened interval are removed prior to sampling or until the monitored parameters stabilize (values remaining within 10% for three consecutive readings).

### Groundwater Sampling

Groundwater is sampled immediately after purging by lowering the intake of the Direct Vent Pipe (DVP) tubing to 3 to 5 meters above the screened interval.

A groundwater sample is collected in clean, laboratory-supplied, containers as per the instructions in the previous section. Samples analyzed for dissolved metals are filtered through a 45 µm inline filter.

Samples are collected in duplicate (see Section 2.2.5) and submitted to the analytical accredited laboratory.

Measurements of groundwater temperature, pH, electrical conductivity, turbidity, and salinity are obtained

in the field during purging and sampling. Measurements are recorded for future reference and to check against laboratory data.

The following procedures are followed to provide data quality control on the samples:

- Measurement of field parameters at selected intervals until stable readings (within 10% of each other) are acquired;
- Minimization of the exposure of the sampled water to the atmosphere;
- Using compressed, inert gas (nitrogen) to lift water from the well for sampling to avoid changing the redox properties of the formation water;
- Conducting in-situ measurements of sensitive chemical parameters (pH, conductivity, salinity, TDS, and turbidity);
- Keeping the samples refrigerated from the time of collection until shipment to the laboratory; and
- Shipping the samples to the laboratory in temperature-regulated coolers within the specified sample holding times.

Bottles are labelled with required information.

#### **2.2.4 Preservation**

Preservatives, if required, are added to sample bottles by the laboratory or added by the technician after filling, as directed by the analytical laboratory. Table 2-1 summarizes the minimum sample volumes, preservation, and holding times for each analysis. This information was provided by the accredited laboratory Bureau Veritas and revised with them in compliance with their protocol. It should be noted that pH, temperature, conductivity, turbidity, and dissolved oxygen are parameters taken in the field.

**Table 2-1: Summary of Sampling Requirements**

| Parameter                                                                                                                                                                                                                                                                                  | Minimum Volume (mL) | Bottle Type                                 | Preservation                            | Holding Time        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------|-----------------------------------------|---------------------|
| pH                                                                                                                                                                                                                                                                                         | 80                  | 250 mL, glass or plastic, filled to the top | 4°C                                     | Analyze immediately |
| Conductivity                                                                                                                                                                                                                                                                               | 80                  | 250 mL, glass or plastic                    | 4°C                                     | 28 days             |
| Hardness                                                                                                                                                                                                                                                                                   | 120                 | 120 mL plastic                              | 4°C, HNO <sub>3</sub>                   | 6 months            |
| Oil and Grease (total)                                                                                                                                                                                                                                                                     | 1000                | 1 L amber glass                             | 4°C, HCl                                | 28 days             |
| Turbidity                                                                                                                                                                                                                                                                                  | 80                  | 250 mL, glass or plastic                    | 4°C                                     | 48 hours            |
| Total Dissolved Solids (TDS)                                                                                                                                                                                                                                                               | 200                 | 250 mL plastic                              | 4°C                                     | 7 days              |
| Total Suspended Solids (TSS)                                                                                                                                                                                                                                                               | 1,000               | 1L plastic                                  | 4°C                                     | 7 days              |
| Total Alkalinity                                                                                                                                                                                                                                                                           | 80                  | 250 mL, glass or plastic, filled to the top | 4°C                                     | 14 days             |
| Bicarbonate Alkalinity                                                                                                                                                                                                                                                                     | 80                  | 250 mL, glass or plastic, filled to the top | 4°C                                     | 14 days             |
| Carbonate Alkalinity                                                                                                                                                                                                                                                                       | 80                  | 250 mL, glass or plastic, filled to the top | 4°C                                     | 14 days             |
| Total Cyanide                                                                                                                                                                                                                                                                              | 20                  | 120 mL, glass or plastic                    | 4°C, NaOH                               | 14 days             |
| Free Cyanide                                                                                                                                                                                                                                                                               | 40                  | 150 mL, glass or plastic                    | 4°C, NaOH                               | 14 days             |
| Benzene, Toluene, Ethylbenzene & Xylene (BTEX)                                                                                                                                                                                                                                             | 80                  | 40 mL, glass, filled to the top (x2)        | 4°C, sodium bisulfate                   | 14 days             |
| Total Petroleum Hydrocarbons (TPH)                                                                                                                                                                                                                                                         | 200                 | 100mL amber, fill to neck                   | 4°C, sodium bisulfate                   | 14days              |
| Total Metals (ICP-MS) (Aluminum, Antimony, Arsenic, Boron, Barium, Beryllium, Cadmium, Cobalt, Copper, Chromium, Iron, Lithium, Manganese, Mercury, Molybdenum, Nickel, Lead, Selenium, Tin, Silver, Strontium, Titanium, Thallium, Uranium, Vanadium, Zinc, Potassium, Magnesium, Sodium) | 120                 | 120 mL plastic                              | 4°C, HNO <sub>3</sub>                   | 6 months            |
| Dissolved Metals (Aluminum, Antimony, Arsenic, Boron, Barium, Beryllium, Cadmium, Cobalt, Copper, Chromium, Iron, Lithium, Manganese, Mercury, Molybdenum, Nickel, Lead, Silver, Selenium, Tin, Strontium, Titanium, Thallium, Uranium, Vanadium, Zinc)                                    | 120                 | 120 mL plastic                              | 4°C, Filtered on-site, HNO <sub>3</sub> | 6 months            |
| Ammonia-nitrogen                                                                                                                                                                                                                                                                           | 14                  | 40 mL, glass, filled to the top             | 4°C, H <sub>2</sub> SO <sub>4</sub>     | 10 days             |
| Total Kjeldahl Nitrogen                                                                                                                                                                                                                                                                    | 20                  | 125 mL, glass or plastic, filled to the top | 4°C, H <sub>2</sub> SO <sub>4</sub>     | 10 days             |
| Nitrate Nitrogen                                                                                                                                                                                                                                                                           | 14                  | 125 mL, glass or plastic                    | 4°C                                     | 5 days              |
| Nitrite Nitrogen                                                                                                                                                                                                                                                                           | 14                  | 125 mL, glass or plastic                    | 4°C                                     | 5 days              |
| Ortho-phosphate                                                                                                                                                                                                                                                                            | 14                  | 125 mL, glass or plastic                    | 4°C                                     | 7 days              |
| Total Phosphorous                                                                                                                                                                                                                                                                          | 30                  | 120 mL, glass or plastic                    | 4°C, HNO <sub>3</sub>                   | 28 days             |
| Total Organic Carbon                                                                                                                                                                                                                                                                       | 30                  | 120 mL plastic                              | 4°C, H <sub>2</sub> SO <sub>4</sub>     | 10 days             |
| Dissolved Organic Carbon                                                                                                                                                                                                                                                                   | 50                  | 120 mL plastic                              | 4°C                                     | 5 days              |
| Chloride                                                                                                                                                                                                                                                                                   | 14                  | 250 mL, glass or plastic                    | 4°C                                     | 28 days             |
| Fluoride                                                                                                                                                                                                                                                                                   | 80                  | 250 mL plastic                              | 4°C                                     | 30 days             |
| Sulphate                                                                                                                                                                                                                                                                                   | 14                  | 250 mL, glass or plastic                    | 4°C                                     | 28 days             |
| Radium 226                                                                                                                                                                                                                                                                                 | 500                 | 1L plastic                                  | 4°C                                     | 1 month             |
| Reactive Silica                                                                                                                                                                                                                                                                            | 30                  | 250 mL, plastic                             | 4°C                                     | 28 days             |

## 2.2.5 Field Duplicates, Field Blanks and Trip Blanks

One field duplicate and one field blank are collected for a) every 10 samples (i.e., random duplicate and blank samples are taken for 10% of the samples per event or compliance station), b) random duplicates are taken for 10% of the samples and one field blank per sampling event (CREMP) or, c) once per year as shown in Table 2-2. Field duplicates are collected and handled in the same manner as the other samples in the field. Field blanks are samples of deionized (DI) water handled concurrently and in the same manner as the other samples in the field. Trip blank, laboratory pre-filled bottles with DI water, are carried to the sampling location and are left unopened, will be collected for a) for a combined 10% annual sampling frequency for compliance and event monitoring program, or b) one per sampling event as shown in Table 2-2.

**Table 2-2: Quality Control Sample Frequency**

| Sampling Site                  | QA/QC Sampling Frequency                                                                        |                                                                                                              |
|--------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Compliance Monitoring Program  |                                                                                                 |                                                                                                              |
| Attenuation and reclaim ponds  | 1 field duplicate and 1 field blank per 10 samples per monitoring station                       | 1 trip blank for every 10 compliance/event monitoring samples – to fulfill the 10% annual sampling frequency |
| Mine facilities - operations   | 1 field duplicate and 1 field blank per year per monitoring station                             |                                                                                                              |
| Mine facilities - closure      | 1 field duplicate and 1 field blank per year per monitoring station                             |                                                                                                              |
| Mine facilities - post-closure | 1 field duplicate and 1 field blank per year per monitoring station                             |                                                                                                              |
| Seep water chemistry           | 1 field duplicate and 1 field blank per 10 samples per monitoring station                       |                                                                                                              |
| Receiving water chemistry      | 1 field duplicate and 1 field blank per 10 samples per monitoring station (Water License)       | 1 trip blank per sampling event                                                                              |
|                                | 1 field duplicate per 10 samples,1 field blank and 1 equipment blank per sampling event (CREMP) |                                                                                                              |
| Groundwater Monitoring Program |                                                                                                 |                                                                                                              |
| Groundwater chemistry          | 1 field duplicate and 1 field blank per groundwater sampling event.                             | 1 trip blank per sampling event                                                                              |
| Event Monitoring Program       |                                                                                                 |                                                                                                              |
| Each event                     | 1 field duplicate and 1 field blank per 10 samples                                              | 1 trip blank for every 10 compliance/event monitoring samples – to fulfill the 10% annual sampling frequency |

### **2.2.6 Sample Transport**

All water samples are stored upright in coolers with ice packs and preserved as specified by the laboratory. Samples are shipped to the external laboratory as soon as possible via chartered aircraft and dedicated ground transportation to ensure arrival in a safe and timely manner. If samples cannot be shipped the same day, they are conserved in a refrigerator at 4°C until shipping.

A Chain of Custody form with the following information is completed for every shipment of samples:

- Company name and sampler's name;
- Sample identification name;
- Time and date of sampling;
- Presence and type of preservative and whether the sample was filtered or not;
- Requested analytical parameters for each bottle;
- Time and date of shipping; and
- Analytical laboratory address and contact person.

One electronic or PDF copy is sent by the electronic chain of custody via the laboratory web portal and one electronic copy is kept at the mine site for reference.

## **SECTION 3. LABORATORY ANALYSIS**

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### **3.1 EXTERNAL LABORATORY**

All analytical chemistry analyses are performed by an accredited laboratory.

In many cases these analyses are performed by Bureau Veritas, an accredited facility (see Appendix A) that is located in Mississauga, Ontario. This ensures that samples collected meet holding time requirements for all regulatory sampling. All data from Bureau Veritas undergoes a rigorous internal QA/QC process, including the use of spiked samples and duplicate samples. All QA/QC data passed the laboratory acceptable limits.

All toxicity tests were performed by an accredited laboratory, generally Bureau Veritas in Quebec City and/or Nautilus in Puslinch, ON. Testing was conducted as stipulated in the corresponding Environment Canada Biological Test Methods.

Agnico Eagle also requires the services of laboratories such as Bureau Veritas in Edmonton, Alberta, H2Lab in Val-D'Or, Quebec, and SGS in Lakefield, Ontario. Agnico Eagle also uses the services of ALS for many of the CREMP and AEMP water quality analyses.

### **3.2 INTERNAL LABORATORY**

The assay lab at the Meadowbank site is not an accredited laboratory but is periodically used for “real-time” results for some parameters like TSS, arsenic, copper, and WAD cyanide. These results are for observational purposes and do not meet the standards of an accredited laboratory.

## SECTION 4. DATA REQUIREMENTS

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### 4.1 DATA COLLECTION

At the end of 2018, Agnico Eagle implemented an environmental data management software called EQUiS. The database became fully operational in 2019.

Water sampling results from the Meadowbank and Whale Tail sites are maintained in the environmental database, including historical data.

The database has been designed based on the sampling stations in order to be compliant with the monitoring program of the Water Licenses 2AM-MEA1530 and 2AM-WTP1830 (Schedule I), the MDMER regulation, and CCME guidelines. To enhance the effectiveness of the QA/QC program, the database functionalities include trend analysis and flagging data for a non-compliance of sampling parameters. All the regulated sampling results are included in the annual report.

The following data is collected for each sample in the field and will be entered into the database by the sampler for the corresponding sampling station:

- a) Sample identification name;
- b) Name of sampler;
- c) Date and time of sampling or measurement; and
- d) Physical characteristics (pH, temperature, etc.), if required.

Upon receipt of sample results from the laboratory, the data will be input into the database by the sample identification name.

The analysis certificate for each sample from the accredited laboratory will include but is not limited to:

- a) Analytical methods or techniques used;
- b) Date of analysis;
- c) Name of the person(s) / laboratory that approved the certificate; and
- d) Analysis results.

### 4.2 DATA VERIFICATION

Upon reception of analytical results, the field blank and duplicate analyses will be verified for potential contamination and accuracy, respectively. Results will be interpreted and recommended actions will be taken if results are not accurate.

Analytical precision is a measurement of the variability associated with duplicate analyses of the same sample in the laboratory. Duplicate results were assessed using the relative percent difference (RPD) between measurements. The equation used to calculate a RPD is:

$RPD = (A-B)/((A+B)/2)*100$ ; where: A = field sample; B = duplicate sample.

Large variations in RPD values are often observed between duplicate samples when the concentrations of analytes are low and approaching the detection limit. Consequently, a RPD of 20% for concentrations of field and duplicate samples that both exceed 10x the method detection limit (MDL) is considered notable and if possible, will require a parameter reanalysis of the field and duplicate samples and/or confirmation by the laboratory that the result is accurate and have passed the accredited laboratory QA/QC. Results with an RPD higher than 20% will not be discarded but rather will be interpreted with precaution.

The analytical precision of one QA/QC sampling event is characterized as:

- High, when less than 10% of the parameters have variations that are notable;
- Medium, when 10 to 30% of the parameters have variations that are notable;
- Low, when more than 30% of the parameters have variations that are notable.

Analyses of blank samples will follow the same RPD analyses standards as described above. The RPD will be calculated between field blank samples results and the typical blank values provided by the laboratory.

### **4.3 EXCEEDENCE REPORTING**

Any measured concentration at a sample station exceeding a regulated discharge criteria stipulated in Water License 2AM-MEA1530, 2AM-WTP1830 or the Metal and Diamond Mining Effluent Regulations (MDMER) will be reported to the NWB, ECCC, and CIRNAC water inspector as soon as the analysis result is received. In addition, results of the action plan will be reported and, where necessary, mitigation options identified within 90 days after receipt of the analyses.

## **Appendix A**

### **Bureau Veritas Accreditation Certificates**

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# Certificate of Accreditation

# Certificat d'accréditation



## Bureau Veritas Canada (2019) Inc. / Bureau Veritas Fuels Testing Canada Inc. Bureau Veritas (Calgary) 2021- 41<sup>st</sup> Avenue N.E., Calgary, Alberta, T2E 6P2

having been assessed by the Standards Council of Canada (SCC) and found to conform with the requirements of ISO/IEC 17025:2017 and the conditions for accreditation established by SCC is hereby recognized as an

### ACCREDITED TESTING LABORATORY

for the specific tests or types of tests listed in the scope of accreditation approved by SCC and found on the SCC website at [www.scc-ccn.ca](http://www.scc-ccn.ca).

ayant fait l'objet d'une évaluation du Conseil canadien des normes (CCN), et ayant été trouvé conforme aux exigences énoncées dans ISO/IEC 17025:2017 et aux conditions d'accréditation établies par le CCN, est de ce fait reconnu comme étant un

### LABORATOIRE D'ESSAIS ACCRÉDITÉ

pour les essais ou types d'essais énumérés dans la portée d'accréditation approuvée par le CCN et figurant dans le site Web du CCN au [www.ccn-scc.ca](http://www.ccn-scc.ca).

SCC file number: / Dossier du CCN n° : 151043

Initial accreditation date: / Date de la première accréditation : 2016-08-30

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le : 2025-08-13

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at [www.scc-ccn.ca](http://www.scc-ccn.ca).

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au [www.ccn-scc.ca](http://www.ccn-scc.ca).

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).



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# Certificate of Accreditation

# Certificat d'accréditation



## Bureau Veritas Canada (2019) Inc. Bureau Veritas (Burnaby) 4606 Canada Way, Burnaby, BC V5G 1K5

having been assessed by the Standards Council of Canada (SCC) and found to conform with the requirements of ISO/IEC 17025:2017 and the conditions for accreditation established by SCC is hereby recognized as an

### ACCREDITED TESTING LABORATORY

for the specific tests or types of tests listed in the scope of accreditation approved by SCC and found on the SCC website at [www.scc.ca](http://www.scc.ca).

ayant fait l'objet d'une évaluation du Conseil canadien des normes (CCN), et ayant été trouvé conforme aux exigences énoncées dans ISO/IEC 17025:2017 et aux conditions d'accréditation établies par le CCN, est de ce fait reconnu comme étant un

### LABORATOIRE D'ESSAIS ACCRÉDITÉ

pour les essais ou types d'essais énumérés dans la portée d'accréditation approuvée par le CCN et figurant dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

SCC file number: / Dossier du CCN n° : 15188

Initial accreditation date: / Date de la première accréditation : 1993-06-08

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le : 2024-07-19

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).



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# Certificate of Accreditation

# Certificat d'accréditation



## Bureau Veritas Canada (2019) Inc. Bureau Veritas (Saint-Laurent) 889 Montée de Liesse, Saint-Laurent, QC, H4T 1P5

having been assessed by the Standards Council of Canada (SCC) and found to conform with the requirements of ISO/IEC 17025:2017 and the conditions for accreditation established by SCC is hereby recognized as an

### ACCREDITED TESTING LABORATORY

for the specific tests or types of tests listed in the scope of accreditation approved by SCC and found on the SCC website at [www.scc.ca](http://www.scc.ca).

ayant fait l'objet d'une évaluation du Conseil canadien des normes (CCN), et ayant été trouvé conforme aux exigences énoncées dans ISO/IEC 17025:2017 et aux conditions d'accréditation établies par le CCN, est de ce fait reconnu comme étant un

### LABORATOIRE D'ESSAIS ACCRÉDITÉ

pour les essais ou types d'essais énumérés dans la portée d'accréditation approuvée par le CCN et figurant dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

SCC file number: / Dossier du CCN n° : 15198

Initial accreditation date: / Date de la première accréditation : 1993-06-08

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le : 2024-07-19

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).



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# Certificate of Accreditation

# Certificat d'accréditation



## Bureau Veritas Mississauga Laboratory 6740 Campobello Road, Mississauga, ON L5N 2L8

having been assessed by the Standards Council of Canada (SCC) and found to conform with the requirements of ISO/IEC 17025:2017 and the conditions for accreditation established by SCC is hereby recognized as an

### ACCREDITED TESTING LABORATORY

for the specific tests or types of tests listed in the scope of accreditation approved by SCC and found on the SCC website at [www.scc.ca](http://www.scc.ca).

ayant fait l'objet d'une évaluation du Conseil canadien des normes (CCN), et ayant été trouvé conforme aux exigences énoncées dans ISO/IEC 17025:2017 et aux conditions d'accréditation établies par le CCN, est de ce fait reconnu comme étant un

### LABORATOIRE D'ESSAIS ACCRÉDITÉ

pour les essais ou types d'essais énumérés dans la portée d'accréditation approuvée par le CCN et figurant dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

SCC file number: / Dossier du CCN n° : 15025

Initial accreditation date: / Date de la première accréditation : 1992-10-06

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le : 2022-02-16

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au [www.ccn.ca](http://www.ccn.ca).

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).



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## **Appendix B**

### **Bureau Veritas Acceptance Letter**

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February 4, 2026

TO WHOM IT MAY CONCERN

This letter provides confirmation that Bureau Veritas locations in Mississauga, Ontario; Edmonton, Alberta; Calgary, Alberta; Burnaby, British Columbia and St. Laurent, Quebec are all accredited by the Standards Council of Canada (SCC) for specific listings included on their respective scopes of accreditation. These scope documents are accessible and available on SCC's website – below are links to the scopes of accreditation for further perusal:

- [https://scc-ccn.ca/system/files/2025-11/ASB\\_SOA\\_15198\\_Scope\\_v26\\_2025-11-05\\_EN.pdf](https://scc-ccn.ca/system/files/2025-11/ASB_SOA_15198_Scope_v26_2025-11-05_EN.pdf)
- [https://scc-ccn.ca/system/files/2026-01/ASB\\_SOA\\_15188\\_v50\\_2026-01-19\\_EN.pdf](https://scc-ccn.ca/system/files/2026-01/ASB_SOA_15188_v50_2026-01-19_EN.pdf)
- [https://scc-ccn.ca/system/files/2025-11/ASB\\_SOA\\_15229\\_Scope\\_v23\\_2025-11-03\\_EN.pdf](https://scc-ccn.ca/system/files/2025-11/ASB_SOA_15229_Scope_v23_2025-11-03_EN.pdf)
- [https://scc-ccn.ca/system/files/2025-10/ASB\\_SOA\\_15025\\_Scope\\_v68\\_2025\\_10\\_17\\_EN\\_0.pdf](https://scc-ccn.ca/system/files/2025-10/ASB_SOA_15025_Scope_v68_2025_10_17_EN_0.pdf)
- [https://scc-ccn.ca/system/files/2025-08/ASB\\_SOA\\_151043\\_Scope\\_v49\\_2025-08-29\\_EN.pdf](https://scc-ccn.ca/system/files/2025-08/ASB_SOA_151043_Scope_v49_2025-08-29_EN.pdf)
- [https://scc-ccn.ca/system/files/2025-11/ASB\\_SOA\\_151140\\_Scope\\_v20\\_2025-11-05\\_EN.pdf](https://scc-ccn.ca/system/files/2025-11/ASB_SOA_151140_Scope_v20_2025-11-05_EN.pdf)

In addition, Bureau Veritas confirms both capability and capacity to analyse sample submissions.

Should you have additional queries, please do not hesitate to contact your Customer Service representative.

Regards

Salima Haniff  
Quality Assurance Manager (Ontario & US IH Labs)  
**Bureau Veritas Laboratories**

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