

November 30, 2025

Manager of Licensing
Nunavut Water Board
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Resource Management Officer, CIRNAC
Nunavut District, Nunavut Region
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**RE: Water Licence 2AM-MRY2540 Monthly Surveillance Network Program (SNP) Report
October 2025**

The following is the monthly report for October 2025 as required under Part I, Item 19 of the Type 'A' Water Licence 2AM-MRY2540 (the Licence), which states:

"The Licensee shall submit to the Board, within thirty (30) days following the month being reported, a Monthly Monitoring Report. The Report shall include:

- a) All data and information required by this Part and generated by the Monitoring Program in the tables of Schedule I*
- b) An assessment of data to identify areas of non-compliance with regulated discharge parameters referred to in Part F"*

Monitoring Program

Table 1 presents a list of samples/monitoring conducted in October under the Licence at sites with discharge/flowing water conditions and the details concerning the collected water quality samples, including sample dates and laboratory identification numbers. Analytical water quality testing results are presented in Table 2. Table 3.1 presents water volumes consumed for domestic and industrial water purposes as well as select volumes of effluent and waste discharged and/or disposed at the Mary River Mine Site and Milne Port during October 2025.

Monitoring Program Results

Water Sampling and Analysis Results

Table 2 provides the analytical results related to the monitoring program facilities. In October 2025, there were no exceedances from applicable water licence monitoring stations.

On May 22, 2025, water was observed flowing at the MS-11 discharge location (MS-11), situated downstream of the Km 105 valley water management infrastructure (Km 105 Facility). A summary of this incident and the actions taken by Baffinland was reported in the May report submitted on June 30, 2025. In addition, details on initial mitigative actions were provided in the follow-up spill report submitted to the NT-NU Spill Reporting Line on June 23, 2025 (NT-NU #2025-226). Monthly Water Licence samples continue to be collected at the proposed MS-11 discharge location when flowing water is present, as per the SNP Modification Request submitted with the MWB/QIA 2024 Annual Report for Operations.

Following the onset of flow through the proposed MS-11 discharge location, discharge quantity at the Km 105 Facility was estimated through daily flow measurements at MS-11 in May, 2025. Pressure transducers

were subsequently installed on June 1 at the downstream hydrology station, for estimating discharge volumes, following the onset of consistent warmer temperatures and ice free conditions. Due to the onset of colder temperatures and snowfall within the region, the pressure transducers were removed on September 9, 2025. Following the removal pressure transducers on September 9, weekly spot flow measurements were conducted to estimate discharge and have been extrapolated to the corresponding week. Frozen conditions were observed following the October 6, 2025 site visit.

Flow and Volume Measurements

Table 3.1 provides a breakdown of volume measurements for October 2025, as required by Part I, Item 6 of the Licence. There were no exceedances of the source-specific daily volume withdrawal limits in October 2025.

We trust that the information provided in this monthly report is acceptable. If you have any questions regarding this report, please contact the undersigned.

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Reviewed by:



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Shannon Mulhall, Irniq Lecompte (Baffinland)

Attachments

Attachments – Table 1, Table 2, Table 3.1

**Table 1.1: Monitoring Program
Water Sampling Summary**

| Location | Location Description | Sample Date | Sample Type | Lab Sample ID |
|----------|---------------------------|-------------|-------------|---------------|
| MP-01 | Sewage Treatment Facility | 2025-10-07 | P | WT2528560-001 |
| MP-01B | Sewage Treatment Facility | 2025-10-07 | P | WT2528560-003 |
| MS-01B | Sewage Treatment Facility | 2025-10-07 | P | WT2528567-001 |
| MS-11 | KM105 Pond Stormwater | 2025-10-01 | P | BF2500343-001 |

Notes:

Sample Types:

P - Permitted Sample

FB - Field Blank

FD - Field Duplicate

TB - Trip Blank

NST - No Sample Taken



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01**

| Location Name | | MP-01 |
|---------------------------|-----------|------------------|
| Sample Date & Time | | 2025-10-07 12:30 |
| ALS Laboratory Work Order | | WT2528560-001 |
| Sample Type | | P |
| Analyte | Units | |
| pH, Lab | pH units | 7.44 |
| Total Suspended Solids | mg/L | 6.5 |
| Total Dissolved Solids | mg/L | 691 |
| Turbidity | NTU | 2.4 |
| Alkalinity, Total | mg/L | 59.7 |
| Ammonia, Total (as N) | mg/L | 0.15 |
| Phosphorus, Nutrient | mg/L | 7.42 |
| Total Kjeldahl Nitrogen | mg/L | 7.87 |
| Fecal Coliforms | CFU/100mL | 11 |
| BOD | mg/L | 2.5 |
| Oil and Grease, Total | mg/L | < 5 |
| Visible Sheen | None | No Visible Sheen |

Notes:

Highlight indicate result exceeded applicable criteria.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01B**

| Location Name | | MP-01B |
|---------------------------|-----------|------------------|
| Sample Date & Time | | 2025-10-07 12:55 |
| ALS Laboratory Work Order | | WT2528560-003 |
| Sample Type | | P |
| Analyte | Units | |
| pH, Lab | pH units | 7.79 |
| Total Suspended Solids | mg/L | < 1 |
| Total Dissolved Solids | mg/L | 646 |
| Turbidity | NTU | 0.13 |
| Alkalinity, Total | mg/L | 85.1 |
| Ammonia, Total (as N) | mg/L | 0.0295 |
| Phosphorus, Nutrient | mg/L | 9.42 |
| Total Kjeldahl Nitrogen | mg/L | 1.28 |
| Fecal Coliforms | CFU/100mL | < 1 |
| BOD | mg/L | < 2 |
| Oil and Grease, Total | mg/L | < 5 |
| Visible Sheen | None | No Visible Sheen |

Notes:

Highlight indicate result exceeded applicable criteria.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-01B**

| Location Name | | | MS-01B |
|---------------------------|-----------|------------------|------------------|
| Sample Date & Time | | | 2025-10-07 13:00 |
| ALS Laboratory Work Order | | | WT2528567-001 |
| Sample Type | | | P |
| Analyte | Units | Criteria | |
| pH, Lab | pH units | 6.0-9.5 | 7.94 |
| Total Suspended Solids | mg/L | 30 | < 1 |
| Total Dissolved Solids | mg/L | - | 983 |
| Turbidity | NTU | - | 0.19 |
| Alkalinity, Total | mg/L | - | 154 |
| Ammonia, Total (as N) | mg/L | 4 | 0.0276 |
| Phosphorus, Nutrient | mg/L | 4 | 0.389 |
| Total Kjeldahl Nitrogen | mg/L | - | 2.52 |
| Fecal Coliforms | CFU/100mL | 1000 | 10 |
| BOD | mg/L | 30 | < 2 |
| Oil and Grease, Total | mg/L | - | < 5 |
| Visible Sheen | None | No Visible Sheen | No Visible Sheen |

Notes:

Highlight indicate result exceeded applicable criteria.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-11

| | | Location Name | MS-11 |
|---------------------------------|----------|---------------------------|-------------------|
| | | Sample Date & Time | 2025-10-01 08:10 |
| | | ALS Laboratory Work Order | BF2500343-001 |
| | | Sample Type | P |
| Analyte | Units | Criteria | |
| pH, Field | pH units | 6.0-9.5 | 7.85 |
| Specific Conductivity, Field | us/cm | - | 477.9 |
| Temperature, Field | deg C | - | 0.4 |
| Turbidity, Field | NTU | - | 0.02 |
| Hardness | mg/L | - | 224 |
| Conductivity | umhos/cm | - | 451 |
| pH, Lab | pH units | 6.0-9.5 | 7.72 |
| Total Suspended Solids | mg/L | 30 | < 1.3 |
| Total Dissolved Solids | mg/L | - | 272 |
| Turbidity | NTU | - | 1.12 |
| Alkalinity, Total | mg/L | - | 87.6 |
| Ammonia, Total (as N) | mg/L | - | 0.0066 |
| Chloride | mg/L | - | 11.4 |
| Fluoride | mg/L | - | 0.128 |
| Nitrate | mg/L | - | 5.68 |
| Nitrite | mg/L | - | < 0.01 |
| Phosphorus, Nutrient | mg/L | - | 0.0026 |
| Total Kjeldahl Nitrogen | mg/L | - | 0.302 |
| Sulfate | mg/L | - | 94.3 |
| Dissolved Organic Carbon | mg/L | - | 2.06 |
| Total Organic Carbon | mg/L | - | 1.93 |
| Aluminum - Total | mg/L | - | 0.0363 |
| Antimony - Total | mg/L | - | < 0.0001 |
| Arsenic - Total | mg/L | 0.6 | < 0.0001 |
| Barium - Total | mg/L | - | 0.0157 |
| Cadmium - Total | mg/L | - | 0.0000265 |
| Calcium - Total | mg/L | - | 35.4 |
| Chromium - Total | mg/L | - | 0.00052 |
| Cobalt - Total | mg/L | - | 0.00038 |
| Copper - Total | mg/L | 0.6 | 0.00206 |
| Iron - Total | mg/L | - | 0.047 |
| Lead - Total | mg/L | 0.2 | 0.000265 |
| Lithium - Total | mg/L | - | 0.005 |
| Magnesium - Total | mg/L | - | 32.5 |
| Manganese - Total | mg/L | - | 0.00258 |
| Mercury - Total | mg/L | - | < 0.000005 |
| Molybdenum - Total | mg/L | - | 0.00773 |
| Nickel - Total | mg/L | 1 | 0.00086 |
| Phosphorus, Total | mg/L | - | < 0.05 |
| Potassium - Total | mg/L | - | 6.34 |
| Selenium - Total | mg/L | - | 0.000414 |
| Sodium - Total | mg/L | - | 5.35 |
| Strontium - Total | mg/L | - | 0.0801 |
| Thallium - Total | mg/L | - | 0.00001 |
| Tin - Total | mg/L | - | < 0.0001 |
| Titanium - Total | mg/L | - | 0.00145 |
| Uranium - Total | mg/L | - | 0.0152 |
| Vanadium - Total | mg/L | - | < 0.0005 |
| Zinc - Total | mg/L | 1 | < 0.003 |
| Aluminum - Dissolved | mg/L | - | 0.0029 |
| Arsenic - Dissolved | mg/L | - | < 0.0001 |
| Cadmium - Dissolved | mg/L | - | 0.0000178 |
| Calcium - Dissolved | mg/L | - | 35.8 |
| Copper - Dissolved | mg/L | - | 0.00176 |
| Iron - Dissolved | mg/L | - | < 0.01 |
| Lead - Dissolved | mg/L | - | < 0.00005 |
| Magnesium - Dissolved | mg/L | - | 32.8 |
| Manganese - Dissolved | mg/L | - | 0.00102 |
| Mercury - Dissolved | mg/L | - | < 0.000005 |
| Molybdenum - Dissolved | mg/L | - | 0.00765 |
| Nickel - Dissolved | mg/L | - | 0.00056 |
| Potassium - Dissolved | mg/L | - | 6.4 |
| Selenium - Dissolved | mg/L | - | 0.000424 |
| Sodium - Dissolved | mg/L | - | 5.38 |
| Thallium - Dissolved | mg/L | - | < 0.00001 |
| Uranium - Dissolved | mg/L | - | 0.0163 |
| Zinc - Dissolved | mg/L | - | < 0.001 |
| Visible Sheen | None | No Visible Sheen | No Visible Sheen |
| Actute Toxicity - Daphnia magna | - | Not Acutely Toxic | Not Acutely Toxic |
| Actute Toxicity - Rainbow Trout | - | Not Acutely Toxic | Not Acutely Toxic |

Notes:
Highlight indicate result exceeded applicable criteria.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

Table 3.1: Flow and Volume Measurements - Part I Item 11 - October 2025

| DATE | Camp Lake Freshwater for Domestic Use - Daily Water MS-MRY-1 (m ³) ¹ | Camp Lake Freshwater for Industrial Use - Daily Water MS-MRY-1 (m ³) ¹ | Treated Sewage Effluent from MS-01B to Discharge Location #1 (m ³) | Sewage Sludge Removed from Mine Site WWTPs to Incinerator or Disposal Offsite by Backhaul (m ³) | Sewage Sludge/Off- Spec Effluent Removed from Mine Site WWTPs to PWSP at Mine Site (m ³) | Sewage Sludge Removed from Lift Stations to PWSP at Mine Site (m ³) | Km 32 Lake Milne Port Camp Daily Water Use for Domestic Purposes MP- MRY-3 (m ³) | Km 32 Lake Milne Port Camp Daily Water Use for Industrial Purposes MP- MRY-3 (m ³) | Treated Sewage Effluent from MP-01 to Milne Inlet (m ³) | Treated Sewage Effluent from MP- 01B to Milne Inlet (m ³) | Sewage Sludge Removed from Milne Port WWTPs to Incinerator or Disposal Offsite by Backhaul (m ³) | Sewage Sludge Removed from Lift Stations to PWSP at Milne Port (m ³) | Sludge Removed from Milne Port WWTPs/WTPs to PWSP at Milne Port (m ³) | Effluent from KM105 Surface Water Management Pond (MS-11) (m ³) ² |
|-----------|---|---|--|---|--|--|---|---|--|--|---|---|--|--|
| 1-Oct-25 | 107.9 | 5.8 | 90.9 | 0.0 | 0.0 | 0.0 | 32.9 | 0.0 | 29.0 | 31.1 | 0.1 | 0.0 | 1.5 | 864.0 |
| 2-Oct-25 | 96.6 | 0.0 | 96.7 | 0.0 | 0.0 | 0.0 | 72.1 | 0.0 | 29.0 | 39.2 | 0.1 | 0.0 | 0.0 | 864.0 |
| 3-Oct-25 | 91.6 | 3.3 | 112.2 | 0.2 | 0.0 | 0.0 | 76.8 | 0.0 | 27.0 | 30.6 | 0.2 | 0.0 | 0.0 | 864.0 |
| 4-Oct-25 | 77.7 | 6.0 | 90.2 | 0.2 | 0.0 | 0.0 | 42.4 | 0.0 | 29.0 | 32.2 | 0.2 | 0.0 | 0.0 | 864.0 |
| 5-Oct-25 | 87.0 | 0.0 | 87.1 | 0.9 | 0.0 | 0.0 | 55.8 | 0.0 | 32.0 | 21.0 | 0.2 | 0.0 | 0.0 | 864.0 |
| 6-Oct-25 | 95.7 | 6.8 | 93.9 | 0.6 | 0.0 | 0.0 | 52.2 | 2.0 | 40.0 | 29.9 | 0.2 | 0.0 | 0.0 | 864.0 |
| 7-Oct-25 | 100.7 | 5.6 | 97.9 | 0.6 | 0.0 | 0.0 | 64.0 | 0.0 | 33.0 | 29.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| 8-Oct-25 | 128.0 | 9.0 | 102.3 | 0.7 | 0.0 | 0.0 | 56.9 | 0.0 | 32.0 | 25.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9-Oct-25 | 107.5 | 18.2 | 139.2 | 0.9 | 0.0 | 9.0 | 36.5 | 0.0 | 29.0 | 40.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 10-Oct-25 | 92.8 | 4.6 | 122.8 | 1.7 | 0.0 | 0.0 | 55.6 | 0.0 | 20.0 | 30.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 11-Oct-25 | 107.4 | 0.0 | 116.6 | 1.7 | 0.0 | 0.0 | 27.4 | 0.0 | 22.0 | 18.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| 12-Oct-25 | 124.2 | 0.0 | 105.0 | 1.7 | 0.0 | 0.0 | 49.2 | 0.0 | 15.0 | 19.2 | 0.1 | 0.0 | 0.0 | 0.0 |
| 13-Oct-25 | 85.6 | 0.0 | 134.0 | 1.7 | 0.0 | 0.0 | 41.3 | 2.0 | 21.0 | 27.8 | 0.2 | 0.0 | 0.0 | 0.0 |
| 14-Oct-25 | 109.1 | 0.0 | 107.0 | 1.7 | 0.0 | 0.0 | 35.1 | 1.0 | 24.0 | 27.6 | 0.2 | 0.0 | 0.0 | 0.0 |
| 15-Oct-25 | 111.7 | 0.0 | 106.1 | 1.7 | 0.0 | 0.0 | 49.9 | 0.0 | 21.0 | 23.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 16-Oct-25 | 84.8 | 24.8 | 119.4 | 1.7 | 0.0 | 0.0 | 45.4 | 0.0 | 19.0 | 23.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 17-Oct-25 | 100.8 | 9.0 | 114.6 | 1.1 | 0.0 | 0.0 | 38.0 | 4.0 | 22.0 | 16.8 | 0.2 | 0.0 | 0.0 | 0.0 |
| 18-Oct-25 | 95.5 | 0.0 | 118.8 | 1.7 | 0.0 | 0.0 | 38.9 | 0.0 | 15.0 | 23.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 19-Oct-25 | 105.0 | 0.0 | 106.4 | 1.7 | 0.0 | 0.0 | 36.1 | 0.0 | 12.0 | 15.7 | 0.2 | 0.0 | 0.0 | 0.0 |
| 20-Oct-25 | 76.3 | 15.0 | 108.6 | 1.7 | 0.0 | 0.0 | 42.8 | 0.0 | 20.0 | 20.7 | 0.2 | 0.0 | 0.0 | 0.0 |
| 21-Oct-25 | 106.9 | 0.0 | 101.6 | 1.1 | 0.0 | 0.0 | 19.4 | 0.0 | 24.0 | 19.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22-Oct-25 | 86.0 | 0.0 | 99.6 | 0.6 | 0.0 | 0.0 | 43.0 | 0.0 | 22.0 | 13.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 23-Oct-25 | 93.1 | 0.0 | 100.7 | 0.4 | 0.0 | 0.0 | 74.2 | 0.0 | 31.0 | 19.1 | 0.0 | 0.0 | 11.0 | 0.0 |
| 24-Oct-25 | 91.5 | 0.0 | 82.7 | 0.2 | 0.0 | 0.0 | 88.0 | 0.0 | 40.0 | 18.3 | 0.1 | 0.0 | 0.0 | 0.0 |
| 25-Oct-25 | 80.3 | 0.0 | 92.8 | 0.9 | 0.0 | 0.0 | 14.7 | 0.0 | 31.0 | 23.6 | 0.2 | 0.0 | 0.0 | 0.0 |
| 26-Oct-25 | 79.9 | 19.2 | 98.5 | 0.9 | 0.0 | 0.0 | 46.4 | 0.0 | 24.0 | 16.0 | 0.2 | 0.0 | 5.5 | 0.0 |
| 27-Oct-25 | 94.6 | 0.0 | 88.1 | 0.9 | 0.0 | 0.0 | 54.2 | 0.0 | 22.0 | 22.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 28-Oct-25 | 99.5 | 0.0 | 89.7 | 0.9 | 0.0 | 0.0 | 31.4 | 0.0 | 19.0 | 22.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 29-Oct-25 | 108.6 | 0.0 | 98.2 | 1.2 | 0.0 | 0.0 | 46.9 | 0.0 | 16.0 | 19.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30-Oct-25 | 95.7 | 7.8 | 99.3 | 1.1 | 0.0 | 0.0 | 38.8 | 0.0 | 14.0 | 13.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| 31-Oct-25 | 93.7 | 8.8 | 100.8 | 0.6 | 0.0 | 0.0 | 55.2 | 0.0 | 18.0 | 13.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Total | 3,015.4 | 143.7 | 3,221.7 | 30.8 | 0.0 | 9.0 | 1,461.5 | 9.0 | 752.0 | 725.5 | 3.7 | 0.0 | 18.0 | 5,184.0 |

Notes:
WWTP - Waste Water Treatment Plant
PWSP - Polishing Waste Stabilization Pond
¹ Tracking may be influenced by reported data to the Pi data system; variances between reported domestic and industrial values have potential to occur. However, total daily withdrawal is not influenced by the tracking methodology.
² Discharge values presented for MS-11 are provisional and based on unverified stage-discharge rating curves. These values may be subject to revision pending further field validation and hydrologic review. The MS-C-AB catchment is generally considered a reliable monitoring location due to its relatively stable flow regime and minimal influence from erratic hydrological events.