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**Sent by Email**

**September 30, 2019**

Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU  
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**Re: August 2019 – Monthly Monitoring Report for Water Licence 2AM-BOS1835**

This report is comprised of monitoring requirements as set out in Part I Item 12 and Schedule I of water licence 2AM-BOS1835.

No activities were conducted under this licence in August.

**Site Wide Water Quality Monitoring Program (Part I Item 3 and Schedule I)**

Sampling locations monitored under this licence will be established with the Inspector as per Part I Item 3 once these facilities have been constructed.

# Flow and Volume Measurements (Part F, Part I and Schedule I)

**Table 1. Effluent discharge, August 2019**

| Facility                                  | Station Code | Discharge Volume (m <sup>3</sup> ) | Exceedances of Discharge Criteria | Discharge Location           | Licence Reference     |
|-------------------------------------------|--------------|------------------------------------|-----------------------------------|------------------------------|-----------------------|
| Contact Water Ponds #1 and #2             | BMS-1        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 18, 19(a) |
| Surge Pond                                | BMS-2        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 19(d)     |
| Contact Water Treatment Plant             | BMS-3        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 5, 21     |
| Reclaim Line from TMAC Contact Water Pond | BMS-4        | 0                                  | 0                                 | Facility not yet constructed |                       |
| Non-contact water pond                    | BMS-5        | 0                                  | 0                                 | Facility not yet constructed |                       |
| Landfill Sump                             | BMS-7        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 19(a)     |
| Sewage Treatment Plant, Effluent          | BMS-8        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 4(b, e)   |
| Sewage Treatment Plant, Sludge            | NA           | 0                                  | NA                                | Facility not yet constructed | Part I Item 5(f)      |
| Landfarm Sump                             | BMS-9        | 0                                  | 0                                 | Facility not yet constructed | Part F Item 19(b)     |
| Fuel Storage Sump                         | BMS-11       | 0                                  | 0                                 | Facility not yet constructed | Part F Item 19(b)     |

Records of visual monitoring of discharge to tundra are maintained on file as per Part I Item 11.

**Table 2. Water usage, August 2019**

| Month                   | Aimoakatalok Lake   |                          |                       |                       |                   | Total Usage    |
|-------------------------|---------------------|--------------------------|-----------------------|-----------------------|-------------------|----------------|
|                         | Domestic Water (m³) | Surface Exploration (m³) | Industrial Usage (m³) | Dust Suppression (m³) | Winter Track (m³) |                |
| January                 | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| February                | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| March                   | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| April                   | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| May                     | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| June                    | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| July                    | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| August                  | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| <b>Annual Total</b>     | 0                   | 0                        | 0                     | 0                     | 0                 | 0              |
| <b>Annual Allowance</b> | <b>33,000</b>       |                          | <b>450,000</b>        |                       | <b>20,000</b>     | <b>503,000</b> |

As permitted by water licences Part E Item 1 and Part I Item 5(a-c).

**Table 3. Volume of Reclaim Water from the Tailings Dewatering for Process Water, August 2019**

| Month                    | Reclaim Water (m³) * |
|--------------------------|----------------------|
| January                  | 0                    |
| February                 | 0                    |
| March                    | 0                    |
| April                    | 0                    |
| May                      | 0                    |
| June                     | 0                    |
| July                     | 0                    |
| August                   | 0                    |
| <b>Annual Cumulative</b> | <b>0</b>             |

\* As per Part E Item 4 and Part I Item 5(d)

Numbers rounded to the nearest cubic meter.

**Table 4. Waste Rock and Process Volumes, August 2019**

| Month                   | Waste Rock Management                  |                                                    |                                                               |                                              |                                                   | Ore Processing and Tailings Management |                                                              |                                                             |
|-------------------------|----------------------------------------|----------------------------------------------------|---------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|
|                         | Produced from Mining Activity (tonnes) | Backfilled Directly to Underground Stopes (tonnes) | Returned Underground from Temporary Waste Rock Pile* (tonnes) | Moved to Temporary Waste Rock Pile (tonnes)* | Cumulative on Temporary Waste Rock Pile (tonnes)* | Quantity of Ore Processed** (tonnes)   | Total Area of Dry Tailings Placed in TIA** (m <sup>2</sup> ) | Total Dry Detoxified Tailings Placed Underground** (tonnes) |
| January                 | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| February                | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| March                   | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| April                   | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| May                     | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| June                    | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| July                    | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| August                  | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |
| <b>Cumulative Total</b> | 0                                      | 0                                                  | 0                                                             | 0                                            | 0                                                 | 0                                      | 0                                                            | 0                                                           |

\* As per Part I Item 5(e)

\*\* As per Part I Item 6

### **Waste Management (Part F Item 11 and 12)**

No hazardous waste was generated and no waste was backhauled for offsite disposal under this licence in August.

### **Summary of Assessments of Water Balance and Water Quality Model (Part I Item 12(c))**

Operations have not yet begun under this licence at this time. Average monthly water quality, hydrologic, and climatic monitoring data will be collected and used to assess the water and load balance model to allow comparison to model predictions once operations have begun under this licence.

### **Thermal Monitoring (Part I Item 7 and Schedule I)**

Thermal monitoring undertaken as per Part I Item 7 and Schedule I is reported in the annual Geotechnical Report.

### **Site Freshet and Precipitation Conditions (Part I Item 12(d))**

Infrastructure identified under this licence has not yet been constructed. No monitoring has been conducted at this time.

### **Incident Reporting**

No incidents pertaining to this licence occurred this month.

Should there be any questions regarding this monthly report, please contact [enviro@tmacresources.com](mailto:enviro@tmacresources.com).

Yours sincerely,



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