

# Jan – Feb 2021 Environmental Update for SLEMA Board March 5, 2021

### Outline

- 1. Mine Update
- 2. SNP Reports
- 3. Water Monitoring
- 4. Inspections
- 5. Regulatory News
- 6. SLEMA's Activities
- 7. Recommendations



# Acronyms

- > AEMP Aquatic Effects Monitoring Program
- ARD Acid Rock Drainage
- DFO Fisheries and Oceans Canada
- ECCC Environment and Climate Change Canada
- ECM Extended Care and Maintenance
- ENR Department of Environment and Natural Resources, GNWT
- EQC Effluent Quality Criterion
- GNWT Government of the Northwest Territories
- MVEIRB Mackenzie Valley Environmental Impact Review Board
- MVLWB Mackenzie Valley Land and Water Board
- PK Processed Kimberlite
- SNP Surveillance Network Program
- TDS Total Dissolved Solids
- WEMP Wildlife Effects Monitoring Program
- WTP Water Treatment Plant



#### 1. Mine Update

The Snap Lake Mine is currently in Extended Care and Maintenance (ECM);

Activities at the mine site finalized on August 25, 2020, when all personnel left the site, and the Mine entered Zero Occupancy until next year, 2021



- From January 1st to March 1st, DeBeers submitted the following SNP Reports:
- December 2020 SNP Report, submitted on Feb 1<sup>st</sup>, 2021; and
- January 2021 SNP Report, submitted on March 1<sup>st</sup>, 2021.
- No incidents were reported in neither of the Reports (spills or wildlife).
- SNP Reports describe care activities at the mine site during zero occupancy: Remote monitoring and site visits.

- Remote Monitoring by cameras included:
- Perimeter Sumps, Water Management Pond and Fuel Tank Farm;
- North Pile, ditch and perimeter sump monitoring.
- > Activities also included:
- Compilation of site-specific weather data;
- North Pile thermistor and piezometer monitoring & data collection;
- Building inspection.

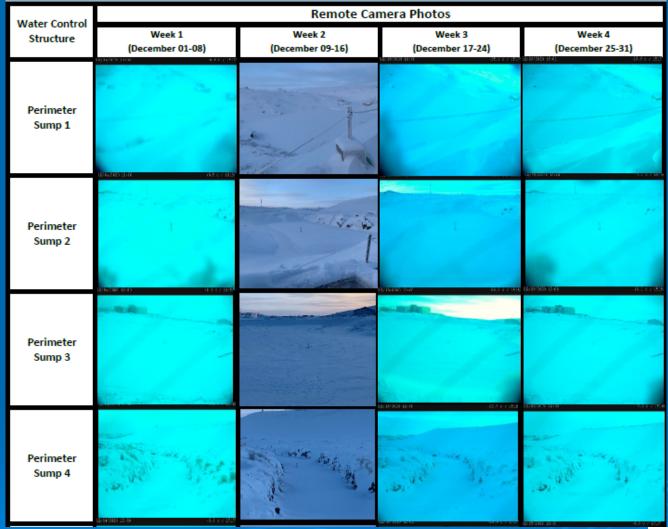


Site visit campaigns occurred on the following dates:

December Monthly Campaign on December 14, 2020;

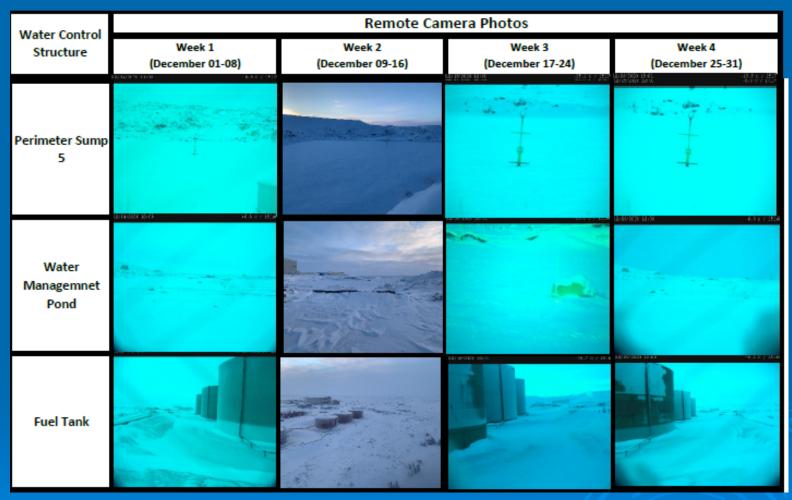
January Monthly Campaigns on January 04 and 25, 20201





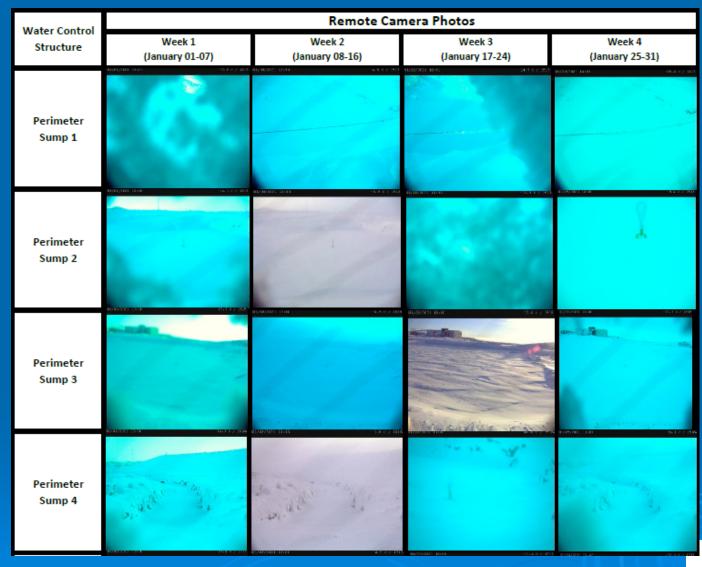
**December – Remote Monitoring Photos** 



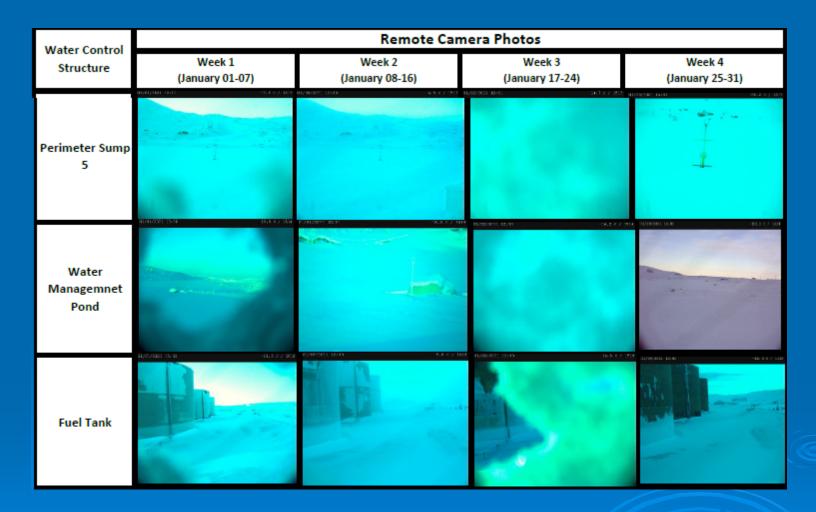


December - Remote Monitoring Photos





January -Remote Monitoring Photos



January - Remote Monitoring Photos



# 3. Water Monitoring

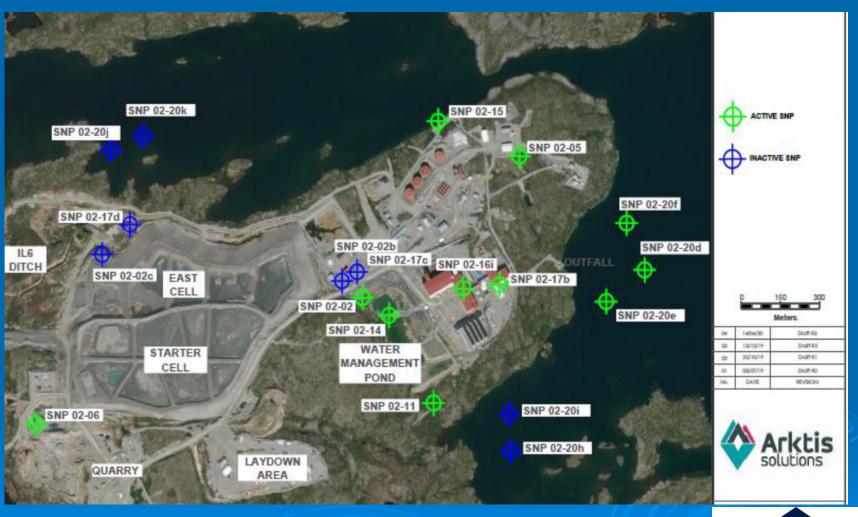


Fig 1: SNP Sampling Stations



# 3. Water Monitoring

No monitoring of water was carried out during this period.



# 4. Site Inspection

No Regulatory inspections were conducted during this period



# 5. MVLWB Regulatory Update

- 1) Waste Management Plan Approved. The updated version of the Snap Lake Plan, Version 5.1 submitted by DeBeers on Jan 8, 2021 was approved by the Board on Jan 14, 2021.
- 2) Water Management Plan Not Approved. The Board decided not to approve the Water Management Plan Version 5 submitted by DeBeers in September 2020. The Board requires that De Beers submit the revised Plan by March 31, 2021



#### 5. MVLWB Regulatory Update

3) Erosion and Sedimentation Plan Not Approved. The Board decided not to approve De Beers' Erosion and Sedimentation Management Plan V.1 submitted in September 2020. The Board required that De Beers submit a revised Plan by Feb 18, 2021.



#### 6. SLEMA ACTIVITIES

> SLEMA reviews:

1) Review of the Surveillance Network Program - SNP monthly reports

SLEMA reviewed December and January SNP reports submitted by DeBeers and found them sound and according to the regulatory requirements with no major issues.



#### 6. SLEMA ACTIVITIES

> SLEMA reviews

The following documents were sent out by the MVLWB for public review:

- 2) DeBeers' Proposed changes to the Surveillance Network Program to align the SNP with the approved Licence conditions.
- 3) DeBeers' Proposed changes to the Aquatic Effects Monitoring Program (AEMP) Design Plan Update for Care and Maintenance to be in use until the AEMP Design Plan for Closure and Post Closure is approved by the Board.



#### 6. SLEMA ACTIVITIES

SLEMA Bord Meeting in January SLEMA meeting was held in YK, on January 21st 2021;

Participants were SLEMA regular Board Members, SLEMA Executive Director and Environmental Analyst.

