



Environment and  
Climate Change Canada

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# Mary River Phase 2 Proposal Type A Water Licence Amendment

## **Presentation to the Nunavut Water Board** **by Environment and Climate Change Canada**

2AM-MRY1325 – technical meetings  
November 12-13, 2019  
Iqaluit, Nunavut



Canada 

# Overview

- Mandate
- Relevant acts and regulations
- Status of Environment and Climate Change Canada's (ECCC) comments
- Outstanding comments and recommendations



# Environment and Climate Change Canada's mandate

- Preservation and enhancement of the quality of the natural environment, including water, air and soil quality;
- Coordination of the relevant policies and programs of the Government of Canada;
- Renewable resources, including migratory birds and other non-domestic flora and fauna;
- Meteorology; and
- Enforcement of regulations.



# Relevant acts and regulations

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
- *Fisheries Act* – Pollution Prevention Provisions
- *Migratory Birds Convention Act*
- *Species at Risk Act*



# Current status of technical comments translation

ECCC 3.1	Milne polishing waste stabilization pond water treatment	Resolved, pending submission
ECCC 3.2	Monitoring of watercourses during railway construction	Resolved
ECCC 3.3	Alignment with the <i>Metal and Diamond Mining Effluent Regulations</i>	Resolved, pending submission
ECCC 3.4	Errata	Resolved



# ECCC 3.1

(Resolved pending submission)

## Milne Polishing Waste Stabilization Pond Water Treatment

ECCC recommends that the proponent:

- clarify whether there would also be a treatment system for the polishing waste stabilization ponds at Milne Port (similar to what is at the mine site), and, if so, provide details on the system; and
- update the Polishing Waste Stabilization Pond Effluent Discharge Plan (Appendix F).



# ECCC 3.2

## (Resolved)

### Monitoring of Watercourses during Railway Construction

ECCC recommends that the proponent provide a detailed description of proposed construction monitoring for the Phase 2 activities.



# ECCC 3.3

## (Resolved pending submission)

### Alignment with the *Metal and Diamond Mining Effluent Regulations*

ECCC recommends that the proponent:

- update references from the *Metal Mining Effluent Regulations* to *Metal and Diamond Metal Effluent Regulations*; and
- provide clarification on the discharge criteria that will be applied.





# Additional comments from NIRB review

## Acid rock drainage and metal leaching from the waste rock pile and from rock cuts and quarries

- ECCC provided technical comments during the Nunavut Impact Review Board reconsideration process about acid rock drainage and metal leaching.
- We noted potentially acid generating classification criteria, seepage from the waste rock pile and identification of mitigation measures.
- The proponent committed to providing the final version of their Phase 1 Waste Rock Management Plan by December 2019 as part of the water licencing process.
- ECCC will review the Phase 1 Waste Rock Management Plan and will provide comments as part of the current water licence amendment process.



Thank You ။

