



Environmental Assessment Update Diavik: Processed Kimberlite to Mine Workings

Mackenzie Valley Environmental Impact Review Board

EA1819-01 - Public Hearing

September 3-6, 2019

Yellowknife, NWT

Russell Wykes

A/Senior Environmental Assessment
Coordinator,

Environmental Protection Operations



Overview

- Status of issues identified by ECCC
- Outstanding issues and recommendations



ECCC Technical Comments

Current Status of ECCC Issues

ECCC-TC1	Water Quality benchmarks for Zinc	Resolved
ECCC-TC2	Monitoring during filling of pits	Resolved – commitment
ECCC-TC3	The Use of A21 Pit For Deposition	Unresolved
ECCC-TC4	Modelling reference not included	Resolved
ECCC-TC5	Updates for modelling to increase certainty	Resolved – commitment
ECCC-TC 6/7	Migratory Birds monitoring during filling process	Resolved



ECCC-TC4 - unresolved

The Use of A21 Pit For Deposition

ECCC recommends that DDMI not use A21 pit for PK deposition because it displays the highest potential for environmental risk and lowest storage capacity.



ECCC-TC4 - unresolved

The Use of A21 Pit For Deposition

- A21 pit has the highest uncertainty for closure and post-closure water quality and establishment of meromixis. Adverse environmental effects are predicted.
- Modelling predicts both A418 and A154 to have stable meromixis, increased capacity for storage of PK and water quality remaining below benchmarks under all modelled scenarios.



Thank You



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada 

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*



Environment and Climate Change Canada's Mandate

- The preservation and enhancement of the quality of the natural environment, including water, air and soil quality, and the 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
- The enforcement of rules and regulations

