



Environment  
Canada

Environnement  
Canada

Canada

# **Environment Canada Presentation to Nunavut Water Board Regarding Canzinc Inc.'s Nanisivik Mine Site Project**

**NWB Pre-Hearing Conference**

**(Held by teleconference)**

**Michael I. Mohammed**

**Senior Environmental Assessment Coordinator**

**June, 2014**



# EC's Mandate

---

- *Department of the Environment Act*
  - General responsibility for environmental management and protection.
  - Preserve and enhance water, air and soil quality.
  - Conserve Canada's renewable resources.
    - Migratory birds, species at risk, flora and fauna.
  - Conserve and protect Canada's water resources.
  - Provide meteorological information.
  - Coordinate environmental policies and programs.

# How EC Fulfills its Mandate

---

## Relevant Acts and Regulations:

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
  - Air quality
  - Spill contingency planning
  - Waste management
- *Fisheries Act* –Pollution prevention provisions
  - Water quality
  - Metal Mining Effluent Regulations (MMER)
- *Migratory Birds Convention Act*
- *Species at Risk Act*

# EC's Role in Nunavut

---

## Environment Canada:

- Screens and reviews development (and remediation) proposals for environmental impacts falling within its mandate.
- Provides recommendations and expert advice to the Nunavut Impact Review Board and Nunavut Water Board.
- Enforces compliance with the legislation and regulations that fall within EC's mandate.

# EC's Concerns with the Nanisivik Mine Site Project

---

EC raised concerns related to:

- Environmental effects monitoring methodology and findings;
- Remediation of contaminated soil; and
- Recommendations in the 2013 Annual Report.

# Environmental Effects Monitoring Methodology and Findings

---

- EC raised the following concerns during the Information Request portion of this review. EC was satisfied with responses received from the proponent:
  - Monitored sulphate levels;
  - Monitored trace metal levels; and
  - Discontinuation of monitoring at some sites.

# Remediation of Contaminated Soil

---

- EC raised the following concerns during the Information Request portion of this review. EC was satisfied with responses received from the proponent:
  - Remedial options analysis criteria scoring; and
  - Change to depth of remediation soil cap.
- EC is satisfied the proponent has chosen not to pursue the amendment to the remediation approach for hydrocarbon-contaminated soils initially presented in the Application.

# Recommendations in the 2013 Annual Report

---

- EC reviewed the project's 2013 Annual Report and supports the following recommendations, which were made by the proponent:
  - Discontinuation of the analytical test groups NAN-2 and NAN-4;
  - Reduction of the list of parameters regulated by the NWB to include total cadmium, total lead, total zinc, total suspended solids, and pH;
  - Removal of Stations 159–10, 159–15, and 159–17; and
  - Reduction of sampling frequency.



# Conclusions

---

- EC has reviewed the Amendment-Renewal Application and has no unresolved concerns at this time.
- Additional information is provided in EC's letter to the NWB dated June 2, 2014.