



Environnement et
Changement climatique Canada

Canada

[illegible]

16MN056 and 2AM-WTP----

**Technical Meeting
Baker Lake, Nunavut
Melissa Pinto
April 28-29, 2017**

உயரதலாசை

- Page 2 – April-21-17

ለርብ ልክነት

- Canada

Environment and Climate Change Canada's Mandate continued

- Researching and protecting the habitat of migratory birds and species at risk
- Permitting and, when necessary, preventing international trade in hazardous waste, hazardous recyclable materials and endangered species
- Promoting, inspecting and enforcing regulatory requirements

Relevant Acts and Regulations

ᐃᔨᐅᐃᔨᔨ ᐱᔨᐅᐅᐅᔨ ᐱᔨᔨᐅᔨ

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
- *Fisheries Act – Pollution Prevention Provisions*
- *Migratory Birds Convention Act*
- *Species at Risk Act*
- ᐱᔨᔨ ᔨᐃᔨᔨ ᐃᔨᔨᔨᔨᔨᔨᔨ ᐱᔨᔨᐅᔨ
- ᐅᐃᔨᔨ ᐃᔨᔨᔨᔨᔨᔨᔨ ᔨᔨᔨᔨᔨᔨᔨᔨ ᐱᔨᔨᐅᔨ
- ᐃᔨᔨᔨᔨᔨᔨᔨ ᐱᔨᔨᐅᔨ – ᔨᔨᔨ ᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨ
- ᐱᔨᔨᔨᔨᔨ ᐱᔨᔨᔨᔨ ᐱᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨᔨ ᐱᔨᔨᐅᔨ
- ᐃᔨᔨᔨᔨ ᐃᔨᔨᔨ ᔨᔨᔨᔨᔨ ᐱᔨᔨᐅᔨ



၂၄၁၂ နှစ်မှစ၍ - ၁၃၁၂ နှစ်အထိ

-

Wildlife – Summary

σ⁹ϰ⁰ - ϰΔΔσ⁹

- [illegible]

[illegible]

- [illegible]



Shorebird Use of Tailings Storage Facility continued

- ECCC#6 Recommends:
 - Shorebirds be added as focal bird group in daily monitoring surveys
 - Semipalmated Sandpiper be added as wildlife receptor of concern to the Wildlife Screening Level Risk Assessment Plan
 - Wildlife Screening Level Risk Assessment Plan include risk assessments for potential ingestion of water/sediment at the tailings storage facility for all wildlife receptors of concern

- ECCC#6 ᐃᓯᐤᐅᑦᑕᐅᑦᑐᑦ:
 - ᓯᖅᑎᑦᑕᐃᑦ ᑦᑭᑦᑭᑦᑭᑦ ᑲᑦᑲᑦᑲᑦᑭᑦ ᑲᑦᑲᑦᑲᑦᑭᑦ ᑲᑦᑲᑦᑲᑦᑭᑦ ᑲᑦᑲᑦᑲᑦᑭᑦ
 - ᑲᑦᑲᑦᑲᑦᑭᑦᑕᐤᑦ Sandpiper ᐃᑕᒋᑦᑕᑦ ᐃᓯᐤᑦᑕᑦᑕᑦ ᑦᑶᑕᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ
 - ᑦᑶᑕᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ ᑲᑦᑲᑦᑲᑦᑭᑦᑕᑦ

$\wedge^{\otimes C} \nabla_{\mu} L^{\vee}_{\nu} \wedge \rho^{\triangleright C} \Delta^L L^{\circ} \sigma^{\circ} \bar{g}_D$



- ECCC#10
 - Migratory Birds Regulations prohibit destruction of migratory bird nests and eggs
 - Adequate mitigation measures have not been proposed to address potential effects to nests/eggs

$\wedge^{\text{ec}} \subsetneq \wedge^{\text{pd}} \Delta^{\text{L}} \sigma^{\text{L}} \subseteq \text{bcl}^{\text{fb}}$

- Page 11 – April-21-17

ΔΛ▷◁ ςῃΔϚσς - αΔῃ ςῃΛϚ▷σῃῃ

- Page 12 – April-21-17

ΔΛ▷◁ ςῃ⊖ΔϚσς - ρΔϙ ςῃ⋈⋈▷σῃῃῃ ῃ⋈⋈ῃ

- Options for reducing phosphorus at source
 - Lower Site-Specific Water Quality Objective for Arsenic
 - Contingency plan/adaptive management to address Acid Rock Drainage
 - Monitoring of road-related contamination in reference lakes
 - Adaptive management and action levels for Total Suspended Solids/turbidity during construction
-
- ᐃᓯᒪᑲᕐᓴᓂᓯᐅᓖᓂᑦ ᓯᓱᑦᑕᑭᑦᑕᐸᓂᕐᓵᑦ ᐅᑕᕐᑲᕐᓂᑦ ᑕᐃᒪᐅᔪᓂᑦ
 - ᓯᓱᑦᑕᑭᑦᑕᐸᓂᕐᓵ ᑲᔪᕐᐃᐅᔪᑦ ᐃᒪᕐᓴ ᕐᑲᑳᐃᑦᓂᕐᓴ ᑐᕋᕐᓴᓯᒪᔪᓂᑦ ᑐᕐᐃᑲᕐᓂᑦ ᐃᑕᑲᕐᓂᑦ
 - ᑲᔪᓯᓂᕐᓵᑦ ᑕᕐᑲᐅᓂᑦ/ᐸᐅᑕᔪᑲᕐᓂᑦ ᐅᕐᑲᐅᓯᐅᔪᓂᑦ ᐅᑕᕐᑲᕐᓂᑦ ᐅᕐᑕᐅᕐᐃᑦ ᐃᐃᑲᕐᓴᓂᑦ
 - ᕐᑲᐅᓰᕐᓂᑦ ᐸᕐᑲᐅᓂᑦ-ᐃᑕᓯᕐᐅᔪᑦ ᓯᕋᐃᓂᕐᓵᑦ ᐸᑐᕐᓂᑦ ᑕᓯᑦ
 - ᐸᐅᑕᔪᑲᕐᓂᕐᓵᑦ ᐸᕐᒪᓂ ᐱᑭᑦᑕᐸᔪᑲᑦ ᐸᕐᓰᓯᕐᓂᑦ ᑲᓂᑕᓯᑦ ᐃᓂᔪᓂᑦ/ᒪᕐᑕᓂᑦ

[illegible]

- Page 14 – April-21-17

[illegible]

- Page 15 – April-21-17

Post-Closure Treatment of Waste Rock Storage Facility continued

- ECCC#12 Recommends:
 - Drainage from the Waste Rock Storage Facility should be actively treated until quality is in line with predictions
 - Criteria be set by Nunavut Water Board for seepage/runoff from Waste Rock Storage Facility
- Proponent has committed to treating drainage from the Waste Rock Storage Facility during post-closure until it meets discharge criteria
- ECCC#12 ᐃᑭᓴᓂᒃᑲᕈᑦᑐᑦᑐᑦ:
 - ᑖᑦᐱᔪᑦ ᐃᓴᑦᑐᑦᑐᑦᑐᑦᑐᑦ ᑯᙳᙳᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦ
 - ᐃᑭᓴᓂᒃᑲᕈᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ
- ᑯᙳᙳᓂᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ ᐱᙳᓴᓴᓂᑦᑐᑦᑐᑦᑐᑦ

Water Quality Predictions

- ECCC#14
 - Some water quality predictions for phosphorus and metals were provided as the dissolved fraction
 - Unable to compare values to guidelines which are provided as total fractions
- ECCC#14
 - ለረጅም ለጊዜ ማጠቃለያ ለገቢዎች ምርጫ ምክር ቤቱ ለሀገሪቱ ለረጅም ጊዜ ለሚገባው ጥራት ያላቸው የውሃ ጥንቃቄዎችን ለማረጋገጥ ሲሞክሩ
 - ይህም ማጠቃለያ ምክር ቤቱ ለሀገሪቱ ለረጅም ጊዜ ለሚገባው ጥራት ያላቸው የውሃ ጥንቃቄዎችን ለማረጋገጥ ሲሞክሩ



Water Quality Predictions continued

- [illegible]

$\Gamma\rho^c c n \triangleleft^q \sigma^{qb} \triangleright C^q q^{qb} \rhd \sigma^b C\Delta L \triangleright \lrcorner \Gamma \wedge c n \triangleleft n \rhd \triangleright \lrcorner \sigma^c$

- Page 19 – April-21-17

[illegible]

- Page 20 – April-21-17

Lower Site-Specific Water Quality Objective for Arsenic

- ECCC#16
 - Site-Specific Water Quality Objective derived for arsenic is 28ug/L
- ECCC#16 Recommends:
 - The Proponent discuss the data used to develop the Site-Specific Water Quality Objective for total arsenic
- ECCC#16
 - ᑭᐱᓴᕐᕈᓪᓗ-ᓂᓖᐸᓄᓪᓗᒃ ᐸᐸᓄᓪᓗ ᓴᓄᐸᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ
28ug/L
- ECCC#16 ᐸᓴᓄᓪᓗ ᓴᓄᓪᓗᒃ:
 - ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ
ᑭᐱᕐᕈᓪᓗ-ᓂᓖᐸᓄᓪᓗ ᐸᐸᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ ᐸᓴᓄᓪᓗ

Thank you

ᑭᐃᓴᓐᓇᓴᓐ



Page 22 – April-21-17



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada