



Technical Review of Final Environmental Impact Statement Addendum





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- KivIA represents Inuit and administers certain provisions of the Nunavut Agreement in the Kivalliq Region.
 - KivIA's mission is to represent Inuit in a fair and democratic manner in the development, protection, administration and advancement of their rights and benefits; and to promote economic, social, political and cultural well-being.
 - The aim of Inuit Owned Land management is to administer those Lands to promote self-reliance and the cultural and social well-being of Inuit now and in the future.
 - Inuit Owned Lands must be managed in such a way as to sustain and enhance the value of the lands.
 - የፌርማ ሰነድ አይደለም እንደሚከተሉ ተስፋል ይችላል እና የፌርማ ሰነድ የፌርማ ሰነድ አይደለም እንደሚከተሉ ተስፋል ይችላል.
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Review Objectives



Review History – Initial Assessment



Review History – Initial Assessment



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Review History – Technical Review



የኢትዮ ፌዴራል ተናግሮ በስራውን Final Technical Submission



የዲሬኞችናኝር እና ልማት ዘመን ማረጋገጫ
ና የኩል የሚያስተካክለው

Outstanding and New Technical Comments

1 የዲሬኞችናኝር እና ልማት ዘመን ማረጋገጫ

2 የዲሬኞችናኝር እና ልማት ዘመን ማረጋገጫ

3. የኩል የሚያስተካክለው

1 Outstanding Information Request

2 Outstanding Technical Comments

3 New Technical Comments



KivIA-IR#2

20,000 m³/day alternative and the discharge of surface contact water

- KivIA is concerned with the ongoing surface contact water discharges to Meliadine Lake
- KivIA requests Agnico Eagle divert as much surface contact water from CP1 to Melvin Bay as possible
- KivIA specifically recommended Agnico Eagle provide updated hydrodynamic modelling to evaluate the feasibility of discharging a blended saline and surface contact water effluent to Melvin Bay
- Agnico Eagle provided updated modelling with a low salinity 2.18 Practical Salinity Units (PSU) scenario to address this concern
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KivIA-IR#2

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20,000 m³/day alternative and the discharge of surface contact water



KivIA-TC-3 (KivIA-TC- 16) Δ_CΔ_C-A

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Monitoring of effects of AWAR and waterlines on caribou movement

- There is uncertainty around how caribou will react to the AWAR and associated covered waterlines that must be verified through rigorous monitoring and adaptive management.
 - KivIA recommends Agnico Eagle
 - Provide detailed methodology of the monitoring proposed for the waterline-road complex and show how this monitoring will feed into adaptive management of caribou movement through the project.
 - Replace the preliminary analysis on caribou-AWAR interactions (Golder; 8 Jan 2021) with a more comprehensive analysis at appropriate spatial and temporal scales.
 - The KivIA does not consider this topic as resolved.



KivIA-TC-3 (KivIA-TC- 16) Δ_{C⁺U⁺}-B

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Monitoring of effects of AWAR and waterlines on caribou movement



KivIA-TC-4 (KivIA-TC- 17)

Optimal side slope of the berms on the waterline covering

- Agnico Eagle initially planned a side slope of 1:2.5 (rise:run) for the road. This proposed side slope is steeper than the caribou literature suggests is required to facilitate caribou crossing (1:3 to 6).
 - KivIA recommended that the side slopes on the waterline coverings be minimum 1:3 slope or preferably 1:5 slope to facilitate caribou passage through the road-waterline corridor.
 - Agnico Eagle clarified that the targeted side slope is 1:3 and has committed to providing details on actual side slopes "as-built" within 6 months of completion of the lines.
 - KivIA considers this issue resolved.



KivIA-New-TC#1

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Clarification of Tiriganiaq-2 Saline Groundwater Management



KivIA-New-TC#1

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Clarification of Tiriganiaq-2 Saline Groundwater Management



KivIA-New-TC#1

աշակերտության մասին պահանջման մեջ՝ առաջարկություն է տրված այս գործության մասին:

Clarification of Tiriganiaq-2 Saline Groundwater Management

- The waterline has sufficient capacity to deliver approximately 3,000,000 m³ of effluent to Melvin Bay between June and October based on the current hydrodynamic model
 - This volume is sufficient to draw down the excess saline water that may be stored in Tiriganiaq-2 as well as all CP1 water in a single year
 - 3,000,000m³ ΔL⁴ 2-Γ CΔd⁴ b⁴ r⁴ cσD⁴ CnD⁴ s⁴ d⁴ σ⁴ s⁴ L⁴ σ⁴ CΔL DPD⁴ C⁴ p⁴ r⁴ σ⁴ CD⁴ J⁴ L⁴ σD⁴ > C⁴ b⁴ DnD⁴ r⁴ u⁴ c
 - d⁴ n⁴ σ⁴ s⁴ d⁴ L⁴ σ⁴ CnD⁴ c⁴ ΔL⁴ C⁴ d⁴ L⁴ σ⁴ CΔb⁴ σ⁴ n⁴ l⁴ σ⁴ -2-Γ C⁴ L⁴ C⁴ D⁴ C⁴ Δb⁴ σ⁴ CP1-Γ ΔL⁴ σ⁴ C⁴ D⁴ r⁴ σ⁴ n⁴ DPD⁴ Δ⁴ d⁴ σ



KivIA-New-TC#1

Clarification of Tiriganiaq-2 Saline Groundwater Management



KivIA-New-TC#2

‘בְּרִאָה’ יְכַדֵּן כְּלֹתָה

Freshet Management

- Discharges to both Meliadine Lake and Melvin Bay are planned during the freshwater and marine ice-free seasons but these discharge windows do not align with the discharge needs pertaining to CP1 required to both avoid compromising the CP1 dike as well as discharging to Meliadine Lake.
 - KivIA recommended Agnico Eagle link commencing annual operations of the waterlines in Adaptive Management Plan Table 1 Note 1 to temperature as has been done with the conclusion of the annual operation window
 - Agnico Eagle has agreed



KivIA-New-TC#2

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Freshet Management



KivIA-New-TC#2

„Γερμανίας Κοινωνίας Δικαιοσύνης

Freshet Management



KivIA-New-TC#2

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Freshet Management

- As with KivIA-New TC#1, KivIA recommends that Agnico Eagle devote at least 50% of the full waterline capacity (at least 10,000 m³/day) to the discharge of surface contact water to the marine environment as soon as the waterlines become available annually and suspend discharges to Meliadine Lake unless the water levels in CP1 are >94%, the “at risk” CP1 water level for the open water period.
- CP1 Freshet recommendations are based on the following assumptions:
 - CP1 Freshet occurs between May 1st and June 1st.
 - CP1 Freshet is expected to occur at a rate of 50-70 mm/day.
 - CP1 Freshet is expected to last approximately 10,000 m³-days.
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-1 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-2 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-3 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-4 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-5 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-6 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-7 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-8 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-9 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-10 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-11 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-12 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-13 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-14 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-15 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-16 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-17 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-18 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-19 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-20 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-21 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-22 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-23 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-24 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-25 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-26 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-27 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-28 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-29 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-30 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-31 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-32 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-33 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-34 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-35 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-36 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-37 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-38 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-39 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-40 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-41 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-42 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-43 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-44 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-45 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-46 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-47 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-48 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-49 (May 1st to June 1st).
 - CP1 Freshet is expected to occur during the period of CP1 water level CP1-50 (May 1st to June 1st).



KivIA-New-TC#3

Limits on Freshwater Discharge to Melvin Bay



KivIA-New-TC#3

Limits on Freshwater Discharge to Melvin Bay

- KivIA proposes that temporary storage of saline water on site during the open water season will allow Agnico Eagle to devote a greater proportion of the waterlines capacity to surface contact water
 - KivIA recommends that freshwater discharged to Melvin Bay via the waterlines should not be limited to 50% capacity by volume, but rather should be limited by compliance with the MDMER requirement that effluent should not be acutely toxic to aquatic life.



KivIA-New-TC#3

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Limits on Freshwater Discharge to Melvin Bay



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Questions?