

Environment and Climate Change Canada's Presentation to the Nunavut Water Board Regarding the Municipality of Iqaluit Type A Water Licence Renewal and Amendment

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3AM-IQA1626 – ᐱᓕᐲᑦᐅᐳᓪᓴᓂᐸᐸᐸᐸ
Technical Meeting
TBD, 2020



Canada

Overview/ ᐃᑦᑲᑦᑲᑦ ᐱᑦᑲᑦᑲᑦ

- Mandate
 - Relevant Acts and Regulations
 - Status of Environment and Climate Change Canada's Concerns
 - Technical Comments and Recommendations
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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

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*
- *Environmental Protection Act*
- *Environmental Protection Regulations*
- *Environmental Protection Regulations – Air Quality*
- *Environmental Protection Regulations – Air Quality – Air Quality Index*
- *Environmental Protection Regulations – Air Quality – Air Quality Index – Air Quality Index*



[illegible]

Baseline Monitoring

ECCC recommends that the proponent:

- Provide raw and summarized data for the baseline conditions assessment of the Waste Transfer Station and landfill conducted by Dillon Consulting in 2019; and
- Clarify whether additional baseline monitoring is planned.

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ECCC-Technical Comment 4

Leachate Treatment - Landfill

ECCC recommends that:

- the proponent identify treatment options beyond the existing system, and determine the lead-time needed to install and commission the treatment system.

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- [illegible]

Leachate Retention Ponds

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ECCC recommends that:

- the proponent clarify whether the leachate retention ponds would provide at least two years of effluent and precipitation storage capacity under the upper range precipitation projection scenario.

[illegible]

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[illegible]

Environmental Protection Plan Section 4.0 Mitigation Measures Tables

ECCC recommends that:

- the mitigation measures tables located in Section 4.0 of both Environmental Protection Plans each include a measure specifying that erosion and sediment control activities be conducted in accordance with the Erosion and Sediment Control Plan.

Section 4.0

[illegible]

- [illegible]

[illegible]

Environmental Protection Plan

Section 5.0 Monitoring and Inspection

ECCC recommends that:

- the proponent submit the monitoring and inspection sections of the Environmental Protection Plans prior to commencement of construction.

Section 5.0

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- [illegible]

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Total Suspended Solids/Turbidity Monitoring

ECCC recommends that the proponent:

- Conduct sediment monitoring in relation to any project disturbances in or near water and
- Conduct total suspended solids /turbidity monitoring routinely during in-stream works, and identify thresholds and accompanying management actions in advance of such in-stream works.

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ECCC-Technical Comment 14

Leachate Management Landfill

ECCC recommends that the proponent :

- Provide details for assessing landfill leachate/effluent characteristics; and
- Include a summary in the annual report of the landfill leachate management system, including leachate generation rates, leachate/effluent characteristics, holding pond capacity, and an update on leachate management/treatment.

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Leachate Management – Waste Transfer Station

ECCC recommends that the proponent:

- Provide secondary containment for the leachate holding tank;
- Characterize the waste transfer station leachate to determine compatibility with the wastewater treatment process prior to transporting leachate to the City's waste water treatment plant;
- Track the waste transfer station leachate generation rates/volumes and treatment/disposal details; and
- Report the waste transfer station leachate generation rates/volumes, treatment/disposal details, and characterization results in the annual report.

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Liner Instillation Timing and Planning

ECCC recommends that the proponent provide in the annual report:

- An update on the capacity of the landfill cell currently in use, including the installation timing calculation (inputs and result); and
- Discuss the required actions/schedule for the design and installation of the next lined disposal area in the sequence (i.e., development of design documents, tendering and delivery of construction materials, installation).

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New Technology / Lessons Learned

ECCC recommends that the proponent :

- Identify and describe measures to prevent/mitigate the challenges described (i.e., substantial volumes of poor quality leachate, down time during mechanical breakdowns and for maintenance), and discuss their anticipated effectiveness;
- Describe how the effectiveness of these prevention/mitigation measures will be monitored; and
- Document lessons-learned to inform subsequent stages of construction and operation.

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Thank You



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

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