

Amendment Application for the City of Iqaluit Water Licence 3AM-IQA1626

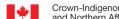
Nunavut Water Board Technical Meeting August 12 - 13, 2020

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DJY∩ 12 - 13, 2020







Outline

- 1. Role and Responsibilities
- 2. Contributions to the Water Licence Review
- 3. Technical Review Comments
 - I. Reclamation of West 40 landfill
 - II. Runoff from baled waste at transfer station
 - III. Landfill leachate treatment
 - IV. Landfill leachate collection
 - V. Surface water management at landfill
 - VI. Fencing
 - VII. Permafrost considerations
 - VIII. Waste transfer station geotechnical report
 - IX. Landfill design drawings
 - X. Operations

4.Comment Resolution Status

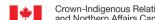


5.Conclusion

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Roles and Responsibilities

Crown-Indigenous Relations and Northern Affairs Canada's (CIRNAC) responsibilities, mandate, and obligations are in alignment with the following:

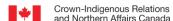
- Department of Crown Indigenous Relations and Northern Affairs Act
- Nunavut Agreement
- Nunavut Land Claims Agreement Act
- Nunavut Waters and Nunavut Surface Rights Tribunal Act and the associated regulations
- Nunavut Planning and Project Assessment Act
- Territorial Lands Act and the associated regulations
- Arctic Waters Pollution Prevention Act

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Contributions to Review

CIRNAC made the following submissions to the Nunavut Water Board regarding application to amend Water Licence 3AM-IQA1626 by the City of Iqaluit (City):

- Information Requests: May 6, 2020
- **Technical Review Comments:** July 17, 2020

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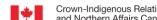
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TECHNICAL REVIEW COMMENTS





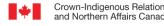
I. Reclamation of West 40 landfill

- The Igaluit Solid Waste Management Plan West 40 Landfill Decommissioning provided in 2014 lacks some details typically present in a final closure plan, principally relating to site drainage.
- CIRNAC did not find further information on reclamation plans for the current landfill and an update would be timely.

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I. Reclamation of West 40 landfill

Recommendation:

- (1) Provide an update on plans for reclaiming the West 40 landfill including:
- i. An estimated schedule for reclamation work; and
- ii. details on site drainage, including where all the ditches would be on the decommissioned site, their drainage directions and how they connect with the offsite retention pond.

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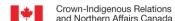
II. Runoff from baled waste at transfer station

- The Waste Transfer Station and Landfill Operation and Maintenance Manual outlines how waste will be baled and covered in plastic at the waste transfer station.
- CIRNAC would like to know what will be done to contain and manage this water, since surface water in contact with the leachate and bales could potentially be contaminated.

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II. Runoff from baled waste at transfer station

Recommendation:

- (2) Provide a method to control leachate and contact water from the bale storage area at the waste transfer station, or a rationale for why this is not necessary.
- This method should provide details regarding how the City will ensure proper drainage at the waste transfer treatment site with such small grades.

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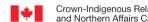
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III. Landfill leachate treatment

- Given the novelty of a landfill using plastic wrapped bales in an arctic environment, the quantity and quality of leachate that will be generated is uncertain.
- CIRNAC acknowledges it is therefore difficult to design an effective and efficient way of treating the leachate.
- Several options are discussed in the documents submitted and it is not clear which option is currently being proposed.

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III. Landfill leachate treatment

Recommendation:

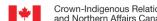
• (3) Clarify what the current position is for treating landfill leachate, and the plan for collecting the necessary data to support this decision.

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IV. Landfill leachate collection

- A robust leachate collection system is critical for environmental protection and reducing future liability as it ensures continued leachate removal from the landfill into the post closure period, reducing potential for uncontrolled discharges.
- There are several elements missing from these drawings and the Method of Construction Statement Report, which should be incorporated in final documents.

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IV. Landfill leachate collection

Recommendation:

The City should Provide:

- (4.1) more detail on leachate collection pipes;
- (4.2) information on the leachate sumps;
- (4.3) more information on the liner system; and
- (4.4) clarification in design intent for Cell 10 leachate collection to ensure all leachate from Cells 10, 11 and 12 can be removed.

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V. Surface water management at landfill

- Surface water management is important at landfills to prevent run-on to landfill cells and operating areas by conveying clean offsite runoff around the site.
- It is also important to avoid erosion of built up berms to prevent structural damage to landfill cells or roads.
- Several elements are missing or unclear from the 90% submission design drawings for the landfill.

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V. Surface water management at landfill

Recommendation:

- Provide:
- (5.1) details on surface water ditching on north side of Cell 1 to convey drainage around the bermed area.
- (5.2) information on the stormwater berm in Cell 1, specifically, for removal of the berm or for how filling of bales should occur at the berm location.
- (5.3) rmethods of erosion control, or rationale for why erosion control features were not included in:
 - Sediment traps along west side of west access road and along south side of south access road; and
 - Fibre rolls and silt fence on both sides of Leachate lagoon road.

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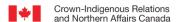
VI. Fencing

- The landfill design drawings do not provide an indication of which areas will be fenced.
- Fences are not included in any of the plan views and there is no indication of a gate to the overall site or fencing around the landfill cell, which would allow site access to the general public and terrestrial wildlife.

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VI. Fencing

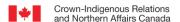
Recommendation:

 (6) Provide clarification on where fencing and gates are to be installed and, if no fencing is planned around the landfill site, provide details on how wildlife and general public will be restricted from access.

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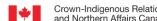


VII. Permafrost considerations

 The documents reviewed have very little discussion on how permafrost will be protected and monitored during construction, operation, closure and post closure of the facilities including the landfill and waste transfer station.

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VII. Permafrost considerations

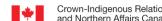
Recommendation:

- (7.1) Describe what construction methodologies and design approach will be used to minimize impact on permafrost.
- (7.2) Describe permafrost conditions and how they have been addressed at the proposed leachate pond location.
- (7.3) Describe the rationale for thermistor locations and how they will monitor ground temperature changes.
- (7.4) Explain why heat generation from decomposing municipal waste was not considered in the thermal modeling of the landfill.

VII. dd^{1}

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VIII. Waste transfer station geotechnical report

 The department (CIRNAC) was unable to locate the report titled "City of Iqaluit Geotechnical Investigation Proposed Waste Transfer Station Lots 3586 228/17/18/20 and 3480 220 1 Iqaluit, Nunavut, October 2018."

Recommendation:

• (8) Provide a copy of this report.

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IX. Landfill design drawings

- There are several elements missing from these drawings which should be in final documents:
 - Methods for creating cuts in rock and overburden; and
 - ii. Method for selecting required ditch locations.

Recommendation:

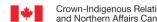
• (9) Clarify the construction methodology for cuts and ditches at the landfill and include these details in the final drawings.

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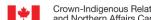
X. Operations

 There are certain elements of operations which have insufficient detail in the Operation and Maintenance Manual.

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X. Operations

Recommendation:

- (10.1) Describe if non-baled waste in the landfill will be compacted, and how solid waste will be handled at the landfill in event of a mechanical breakdown of the baling or shredding equipment.
- (10.2) Clarify what household hazardous wastes will be accepted and if the hazardous waste storage area includes secondary containment.
- (10.3) Provide additional detail on leachate pumping.
- (10.4) A water licence condition be developed to require additional cover if nuisances occur.

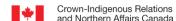
X. ◁▷∟♂∿Ր^ℂ

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- $(10.1) \triangleright^{\varsigma} b \triangleright^{\prime} \land \triangle^{\varsigma} L^{\varsigma} \cup d \triangle^{\varsigma} \land \triangleright^{\prime} L^{\varsigma}$ $\Delta_\Gamma = \Delta_\Gamma ΔS^{2} $40^{5}\sigma^{6}d^{c}$
- (10.2)P'bP \wedge L' \rightarrow d \wedge C'C L' \rightarrow d \wedge C'C dicaille Achabhhair $A_{C}\sigma_{c}$
- (10.3) 4^LL フσ/^bb^oσ^cんくて^b Dのらいくしての LiつdipaD< Lifac
- (10.4) ΔLCΛσ⁹J⁹ CΔ⁹J⁹ άσορό στο Σορο ΕΔΕΔΓασος Ε.

Comment Resolution Status

Recommendation くつこらはトレイト	Resolved づらやととしている	Commitment Pending bマイハCÞσ◁ჼσჼႱC ᢧჼჼb゚ჼႱσჼႱ	Unresolved ぐっぱっぱっとしゃしゃしょう
1	1		
2		2	
3			3
4		4.1, 4.2, 4.3, 4.4	
5		5.1, 5.2	5.3
6			6
7			7.1, 7.2, 7.3, 7.4
8		8	
9			9
10	10.4	10.1, 10.2	10.3



᠌ᠫᠻ᠘ᡀᡒᢆ Conclusion

- CIRNAC has outstanding concerns and recommendations.
- CIRNAC will continue to work through the water licence application review process with the aim of protecting Nunavut's inland water resources while promoting sustainable development.

- Ddd cirnac AdL JJn blc
- Dd⊲ CIRNAC ᠕ᠸᡅᡥᡆᠳᡏ᠑ᡃ $\Delta L \subset \Lambda G^{5} L^{5} \subset \Delta S^{6} L^{6} C^{6}$ ᡩ᠙᠘ᢗ᠙᠘ᢗᢥ᠘ᡊᡑ᠘᠘ᢓᠰ᠘ ΛΙ ⁶d^c Po PbcP20⁶5σ⁶



