WATER LICENCE INSPECTION FORM

☑ Original☑ Follow-Up Report

Department of Community Government and Services Government of Nunavut Licence No. / Expiry Representative's Title Regional Engineer Land / Other Authorizations Land / Other Authorizations Date of Inspection June 23,2017 Bhabesh Roy Representative's Title Regional Engineer Land / Other Authorizations Inspector Jonathan Mesher			
Government of Nunavut Licence No. / Expiry Representative's Title 3BM-YRB1621 Regional Engineer Land / Other Authorizations Land / Other Authorizations			
Licence No. / Expiry 3BM-YRB1621 Regional Engineer Land / Other Authorizations Land / Other Authorizations Inspector			
3BM-YRB1621 Regional Engineer Land / Other Authorizations Land / Other Authorizations Date of Inspection Inspector			
Land / Other Authorizations Land / Other Authorizations Date of Inspection Inspector			
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Activities Inspected			
☐ Camp ☐ Drilling ☐ Mining ☐ Construction ☐ Reclamation ☐ Fuel Storage ☐ Roads/Hauling ☐ Other: Water Discharge ☐ Other: Municipal			
Conditions: A - Acceptable C - Concern U - Unacceptable NA - Not Applicable NI - Not Insperator Use Condition Comment Site Conditions Condition Comment Haz/Mat Management Condition			
Water Use Condition Comment Site Conditions Condition Comment Haz/Mat Management Condition Intake/Screen NI Water Management Structures U Storage NA	Comment		
Flow Measure. Device NA Culverts / Bridges NA Spills C			
Source: NI Drainage NA Spill Plan NA			
Water Use: A Erosion / Sediment U			
Recirculation (y /n) NA Mitigation Measures NA Administrative			
Reclamation Activities NA Records A	•		
Materials Storage NA Reports NI			
Waste Disposal Signage U Plans NI			
Waste Water U Notifications U			
Solid Waste NA Monitoring Other			
Hazardous Waste NA Sample Collection / Analysis A			
*The number in the comments field will correspond with specific comments provided below.			
Samples taken by Inspector: Location(s):			
☐ Yes ☐ No			
SECTION 1			
<u>Inspectors Statement</u>			
On June 23, 2017, a water licence inspection was conducted at the Hamlet of Resolute Bay, Qikiqtani Region, Nunavut. The Licence			
3BM-YRB is one of 3 licences in the community, this licence allows the community to deposit waste into the airport sewage lagoon			
and to use of 1 cubic metres per year of water for sampling purposes.			
Between 2006 and 2017 there have been 8 inspections of this facility. Since 2006 this non-engineered lagoon has overtopped or			
breached every year. Due to the erosions of the berm walls, frequent overtopping and the unsatisfactory condition of the structure			
the licensee is in contravention of;			
DART D. COMPITIONS APPLYING TO WASTE DISPOSAL			
PART D: CONDITIONS APPLYING TO WASTE DISPOSAL 4. The Licensee shall ensure that a Freeboard limit of 1.0 metre, or as recommended by a qualified Geotechnical Engineer and			
approved by the Board, is maintained at all dykes and earth-fill structures associated with the Sewage Disposal Facilities.			
5. The Licensee shall advise an Inspector at least ten (IO) days prior to initiating any decant of the Sewage Disposal Facility.			
6. The Sewage Disposal Facilities shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent			
erosion and structural failure.			
<u>Inspection</u>			
Airport sewage lagoon			
During the inspection the lagoon was not in satisfactory condition to the inspector.			
2. Both cells had significant erosion on the berm walls.			
3. The lagoon did not appear to have the required 1.0 metre of freeboard. 4. There was significant sign of slumping on the berm walls			
4. There was significant sign of slumping on the berm walls.			
SECTION 2 Comments (s) Non-Compliance with Act or Licence (s) Action Required (s	_)		



PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

- 4. The Licensee shall ensure that a Freeboard limit of 1.0 metre, or as recommended by a qualified Geotechnical Engineer and approved by the Board, is maintained at all dykes and earth-fill structures associated with the Sewage Disposal Facilities.
- 5. The Licensee shall advise an Inspector at least ten (I0) days prior to initiating any decant of the Sewage Disposal Facility.
- 6. The Sewage Disposal Facilities shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent erosion and structural failure.

Due to the continual failure of this facilities ability to contain water, the inspector is requesting that Department of Community Government and Services, Government of Nunavut develop a plan to address the lagoons capacity issues before March 30, 2018 in order to be completed in the summer of 2018. This Lagoon has been under capacity since 2006 and should be addressed in a timely manner.



Figure 1: Erosion on cell #2 leading to the environment



Figure 2: Erosion of cell #1 leading to cell #2





Figure 4: Condition of Berm Wall

Licensee or Representative	Inspector's Name
	J. Mesher
Signature	Signature
	Original On File
Date	Date
	August 15 2017

