



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Hall Beach		Jona Koonark	
Licence No. / Expiry		Representative's Title	
3BM-HAL1520		Public Works Supervisor	
Land / Other Authorizations			
None			
Date of Inspection		Inspector	
August 09 , 2015		Justin HACK	
Activities Inspected			
<input checked="" type="checkbox"/> Camp/Municipality	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Fuel Storage			

Conditions:		A - Acceptable	C - Concern	U - Unacceptable	NA – Not Applicable	NI – Not Inspected	
Water Use		Condition	Comment	Site Conditions		Condition	Comment
Intake/Screen	A			Water Management Structures		U	4,8
Flow Measure. Device	A			Culverts / Bridges		A	
Source:	A			Drainage		A	
Water Use:	A			Erosion / Sediment		A	
Recirculation ( y /n)	NA			Mitigation Measures		U	8
				Reclamation Activities		A	
				Materials Storage		A	
Waste Disposal				Signage		A	
Waste Water	U		8				
Solid Waste	C		16	Monitoring			
Hazardous Waste	A			Sample Collection / Analysis		NI	
*The number in the comments field will correspond with specific comments provided below.							
Samples taken by Inspector:			Location(s):				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

SECTION 1	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<b>Inspectors Statement</b>			
<p>On August 9 2015, a water licence inspection was conducted at the Hamlet of Hall Beach, Qikiqtani Region, Nunavut.</p> <p>The Hamlet of Hall Beach has recently been granted a new licence that is valid until April 29, 2020. This licence allows for the use of 299 cubic meters of water per day (35,000 cubic metres annually) and the deposit of treated effluent from the Sewage Treatment Facility. The Licensee is not permitted to have any leachate discharges from other waste management areas in the Hamlet.</p>			
<b>Inspection</b>			
<b>Water Use and related structures:</b>			
<ol style="list-style-type: none"><li>Water is being withdrawn from Water Supply Lake and discharged into the Water Reservoir for storage.</li><li>The Berm walls around the facility are in good condition. No indications of slope instability, ground instability, or seepages were evident from this facility.</li><li>The jetty entering the reservoir was in good condition. No signs of erosion were evident.</li><li>Water Supply Lake has a dam structure located at the South-West corner of the lake. This is opened as needed to recharge the lake from an inflowing stream.<ul style="list-style-type: none"><li>At the time of inspection, erosion was evident on this structure and may affect its integrity.</li><li>It is recommended that the Licensee fix this structure to its engineered design or provide an engineer’s report confirming this structure is adequate.</li></ul></li><li>Records of water use were available and in good order at the time of inspection.</li><li>A secondary source of raw water has been identified by the Licensee in case of emergencies. This Licensee should consider having this secondary source reviewed for the Nunavut Water Board as a source of Water in case of emergencies.</li></ol>			
<b>Waste Water Treatment Facility</b>			
<ol style="list-style-type: none"><li>The sewage lagoon is a two cell facility where cell 1 is supposed to exfiltrate to cell 2, and water from cell 2 is supposed to exfiltrate to a ditch that enters the environment. This facility is located approximately 200m from the ocean. According to the Municipal Planning Engineer, Bhabesh Roy, the exfiltration system does not work due to permafrost infiltration. Sewage is thus pumped from cell 1 to cell 2 as a remedial measure.</li></ol>			



8. At the time of inspection, cell 1 was completely empty due to a leak in the facility that has failed for the last couple years.
- At the time of the inspection, it's unclear which path the sewage flowed from this facility. There was no evidence of staining from the spill on the ground downstream of the point of failure.
  - Given the inadequacy of this facility to hold sewage, a direction may be issued to the Hamlet of Hall Beach requiring measures to be taken to repair the facility.
9. Berm walls surrounding Cell 2 appeared to be in good condition, no signs of slope instability, leakage, cracking were evident.
10. Freeboard height was sufficient.

**Hazardous Waste Facility (lined):**

11. The Hazardous waste is being stored on a lined facility.
12. There were no signs of slope instability, ground instability, or seepages from this facility.
13. No discharges from this facility have occurred in 2015.

**Domestic Waste Facility (unlined):**

14. The Licensee manages domestic waste through a burning and covering procedure.
15. This facility is not lined and does not have the ability to capture leachate or run-off; however, no signs of run-off or leachate were evident.
16. The licence does not allow the Licensee to discharge leachate from this facility; however, the Licensee should consider an amendment to the licence for leachate criteria.

**Reports/Records:**

17. Records for Water Use were in good order.
18. Issues related to Part H (Monitoring Program) of the Licence will be addressed during the next Water Licence Compliance Working Group.

**SECTION 2**

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Comments

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Non-Compliance with Act or Licence

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Action Required

Click here to enter text.

Inspector's Name

Justin Hack

Signature

Date

October 1, 2015