



WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Kimmirut		Bhabesh Roy	
Licence No. / Expiry		Representative's Title	
3BM-KIM0911		Regional Planning Engineer	
Land / Other Authorizations			
None			
Date of Inspection		Inspector	
June 17, 2016		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"/> 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	Haz/Mat Management	Condition	Comment
Intake/Screen	NI		Water Management Structures	A		Storage	A	
Flow Measure. Device	C		Culverts / Bridges	NI		Spills	NI	
Source:	A		Drainage	A		Spill Plan	A	
Water Use:	C		Erosion / Sediment	A				
Recirculation (y /n)	NA		Mitigation Measures	A		Administrative		
			Reclamation Activities	A		Records	C	
			Materials Storage	A		Reports	NA	
Waste Disposal			Signage	A		Plans	NA	
Waste Water	C					Notifications	NA	
Solid Waste	C		Monitoring			Other		
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): KIM-2 and KIM-3
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION 1 ☒ Comments ☐ Non-Compliance with Act or Licence ☐ Action Required

Inspectors Statement

On June 17, 2016, an inspection was conducted at the Hamlet of Kimmirut, Qikiqtani Region, Nunavut to identify any uses of water and deposits of wastes into water. Sites inspected include the proposed sewage disposal facility, Fundo Lake, the waste water discharge point and solid waste storage facility.

The Hamlet has not been authorized by the Nunavut Water Board to use any water or deposit any wastes that may enter waters. However, INAC understands that this community must conduct these activities to exist and encourages the Hamlet of Kimmirut to use water and deposit wastes to water in a way that minimizes effects to people, property and the environment.

The Hamlet of Kimmirut has been without a valid water licence since January 2011. An Application for a Renewed Water Licence was submitted on August 12, 2013; however, no licence has been issued as of yet.

Inspection

Unlicensed Water Use:

1. Fundo Lake

- Water is being withdrawn from Fundo Lake via a water pumping station.
- The quantity of water withdrawn from this lake is being accounted for by calculating the amount of water delivered.
 - This does not account for all the water withdrawn from this source because water is being withdrawn for other purposes like dust suppression.
- No evidence of drawdown from water use was evident at this lake.
- It should be noted that the use of water from this lake is not authorized without a valid water licence.
- It is recommended that the Hamlet of Kimmirut obtain a valid water licence for the use of water within the community so that updated relevant conditions can be set related to the use of water from Fundo Lake.

2. Secondary Water Source

- 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 by the Nunavut Water Board as a source of Water in



case of emergencies.

Unlicensed Deposits of Waste (that may trigger the Nunavut Water and Nunavut Surface Rights Tribunal Act, section 12)

3. Municipal Wastewater

- Municipal wastewater is being discharged at a location approximately 300m from the ocean. The wastewater flows over land before it enters the ocean. The ocean acts as the major receiving environment for this discharge.
- The wastewater does not enter any other streams or lakes before it enters the ocean.

4. Municipal solid waste storage

- Municipal refuse is stored in the vicinity of the Municipal Waste Water Discharge location.
- The refuse is stored, burned and covered by cover material as part of the process to manage this refuse.
- This facility is not lined.
- Leachate likely runs-off this facility at or near the discharge location of the municipal waste water.
- Although no signs of leachate were evident at the time of the inspection, the leachate would likely enter the receiving ocean environment 300m downstream of the facility.
- Again, the Hamlet should ensure that all leachate from this facility meets all legislative requirements before it enters the ocean.

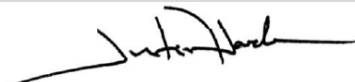
5. Sampling

- Samples were taken of the surface water downstream of the landfill and the sewage discharge location.
- The samples met the criteria set out in a previous licence; however, this licence is no longer valid.

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
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The Hamlet of Kimmirut is currently using water without the authorization from a valid water licence. This is in contravention of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, section 11, unless used solely for domestic purposes. In order for Kimmirut to be authorized for their current activities they must hold a water licence for the use of water. This includes the use of water related to the use of Fundo Lake as a Water Source, the use of a secondary water lake, and the use of water related to the storage of water by means of dams or dykes related to the enhanced storage facility, if required.

Regarding the discharges of the wastewater and leachate into the ocean, the Hamlet should be aware that other legislation, both Federal and Territorial, likely applies to this discharge of effluent into the ocean and should ensure compliance with all other relevant regulations.

Inspector's Name	
Justin Hack	
Signature	
	
Date	
September 19, 2016	