



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Kimmirut		Bhabesh Roy	
Licence No. / Expiry		Representative's Title	
3BM-KIM		Regional Planning Engineer	
Land / Other Authorizations		Land / Other Authorizations	
None			
Date of Inspection		Inspector	
June 6, 2017		Jonathan Mesher	
Activities Inspected			
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input checked="" type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Other:		<input type="checkbox"/> Reclamation
			<input checked="" type="checkbox"/> Fuel Storage

Conditions:    **A - Acceptable**    **C - Concern**    **U - Unacceptable**    **NA – Not Applicable**    **NI – Not Inspected**

Water Use			Site Conditions			Haz/Mat Management		
	Condition	Comment		Condition	Comment		Condition	Comment
Intake/Screen	A		Water Management Structures	A		Storage	C	
Flow Measure. Device	C		Culverts / Bridges	NI		Spills	NI	
Source:	A		Drainage	A		Spill Plan	NI	
Water Use:	C		Erosion / Sediment	A				
Recirculation ( y /n)	NA		Mitigation Measures	NA		Administrative		
			Reclamation Activities	NA		Records	C	
			Materials Storage	NA		Reports	NA	
Waste Disposal			Signage	A		Plans	NA	
Waste Water	C					Notifications	NA	
Solid Waste	C		Monitoring			Other		
Hazardous Waste	C		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	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
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**Inspectors Statement**

On June 5, 2016, a water licence inspection was conducted at the Hamlet of Kimmirut, Qikiqtani Region, Nunavut. Sites inspected included the Raw water source, Solid waste disposal facility and the sewage dumping area.

At the time of inspection, the Licensee was in contravention of the Waters Act, the Nunavut Surface Rights Tribunal Act and the Arctic Water Pollution Prevention Act. In Order to come into compliance with the restrictions of the Acts listed above it's advised that the Hamlet of Kimmirut obtain a valid water licence to allow the use of water and the deposit of waste.

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.

**Weather Conditions on Site**

Mainly cloudy with temperatures between -1 and 5 degrees Celsius. The Hamlet of Kimmirut was free of snow at the time of the inspection.

**Inspection**

**Unlicensed Water Use**

1. Fundo Lake

a. Water is being extracted from the Lake via a water pumping station.

b. The quantity of water is being accounted for by calculating the amount delivered, this practice does not account for all water used. The Inspector is recommending that the licensee use a more accurate method for accounting for water use.

c. There was no sign of draw down from the lake.

d. Water use from Fundo Lake is not currently authorized, its recommend that the Hamlet of Kimmirut obtain a valid Water Licence.



Unlicensed Deposit of Waste

2. Solid Waste Disposal Facility
  - a. The Hamlet deals with municipal refuse by a burn and cover procedure.
  - b. At the time of the Inspection the Licensee was unable to cover their refuse because the hamlet's rock crusher was in need of repairs. It's recommended the Hamlet fix the crusher or find another means to cover the refuse in order to manage the waste in a way that has been approved by the Nunavut Water Board.
  - c. Part D section 8 of the expired water licence 3BM-KIM0911 states, The Licensee shall implement measures to control wind-blown litter at the Solid Waste Disposal Facility. At the time of the inspection the fence around the facility was not properly maintained, it is recommended that the Hamlet of Kimmirut repair the fence to control wind-blown litter. See *Figure 1*.
3. Sewage Disposal
  - a. 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.
  - b. Samples were taken at the time of the inspection to ensure effluent meets all relevant legislative requirements.
  - c. This Deposit of waste is not currently authorized, its recommend that the Hamlet of Kimmirut obtain a valid Water Licence.
4. Hazardous Waste
  - a. The hazardous waste is currently stored within the solid waste disposal facility.
  - b. Part D section 7 of the expired water licence 3BM-KIM0911 states, The Licensee shall segregate and store all hazardous materials and/or hazardous waste, including waste oil, within the Solid Waste Disposal Facility in a manner as to prevent the deposit of deleterious substances into any water until such a time as proper disposal arrangements is made.
    - i. The storage of Hazardous Waste does not appear to the inspector to be segregated, nor does it have the capability to contain contact water or to divert upstream flow around the Hazardous material. See Figure 2.
    - ii. It is recommended that the Hamlet of Kimmirut properly store the Hazardous material such in a manner as to prevent the deposit of deleterious substances into any water, as required in the expired Water Licence 3BM-KIM0911.

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
<p>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. 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.</p> <p>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. The sampling results may be provided to other federal agencies upon</p>			
Inspector's Name			
Jonathan Mesher			
Signature			
Date			
June 19,2017			

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Figure 1: wind-blown litter control



Figure 2: Hazardous Waste segregation