



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Arctic Bay		Sam Willie	
Licence No. / Expiry		Representative's Title	
3BM-ARC1419		Acting Senior Administrative Officer	
Land / Other Authorizations			
None			
Date of Inspection		Inspector	
July 20, 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"/> 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		A	
Flow Measure. Device		A		Culverts / Bridges		A	
Source:		A		Drainage		A	
Water Use:		A		Erosion / Sediment		A	
Recirculation ( y / n)		NA		Mitigation Measures		A	
				Reclamation Activities		A	
				Materials Storage		A	
Waste Disposal				Signage		A	
Waste Water		A					
Solid Waste		C	9-12	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>Background</b>			
<p>The Hamlet of Arctic Bay has a water licence that is valid until 2019. The Licensee is permitted to use 299 cubic meters of water per day, and is permitted to discharge treated sewage into the environment from the Waste Water Treatment Facility. The Licence does not grant the right to deposit of wastes into the environment (leachate) from the Solid Waste Disposal Facility.</p>			
<b>Inspectors Statement</b>			
<p>On July 20 2016, a water licence inspection was conducted at the Hamlet of Arctic Bay, Qikiqtani Region, Nunavut.</p>			
<b>Inspection</b>			
<b>Water Use and related structures:</b>			
<div>1. Water is being withdrawn from Marcil Lake as approved in the Water Licence.</div> <div>2. It was noted that water use quantities are only accounted for when the water is delivered by water truck and not as water is pumped into the truck. However, to account for extra water use, the municipality adds twenty percent to their water use quantity to account for uses such as dust suppression and other unaccounted water uses.</div> <div>3. The secondary source of raw water was not being used for a water source at the time of the inspection.</div>			
<b>Waste Water Treatment Facility</b>			
<div>4. At the time of inspection, the sewage lagoon was in-use, operating as intended, and was retaining the sewage until decanting occurs.</div> <div>5. Berm walls surrounding the facility did not show signs of slumping or cracking.</div> <div>6. Freeboard height was sufficient.</div> <div>7. The Licensee highlighted that the gravity fed effluent decant pipe is frozen shut due to permafrost in the berm. There is no heat trace in the pipe to encourage unfreezing. To decant the facility, the Licensee siphons the effluent through hoses over the berm wall.</div> <div>8. No concerns were noted with the operation of this facility.</div>			



Metal Storage Area:

- 9. During the previous inspection (2015), it was requested to store scrap metals on top of the reclaimed sewage lagoon. The Hamlet has not initiated this activity as of yet.
- 10. It was observed again that a small stream flows through the existing metal storage area and then flows into a sump downstream of the domestic waste facility. The sump is located near a stream and then this surface water likely exfiltrates into the nearby stream.
- 11. Samples will be taken at the next inspection.

Domestic Waste Facility

- 12. The Licensee manages domestic waste through a burning and covering procedure.
- 13. Due to the recent rainfall, a small stream was observed flowing from the Domestic Waste Facility where it flowed to a sump.
  - The surface water likely contains some leachate and likely affects the nearby stream.
  - The Licensee is not allowed to discharge leachate from site. Samples will be taken at the next inspection to determine the levels of contaminants entering the surface water.

Reports/Records:

- 14. Records for water use were in good order.

Hazardous Waste:

- 15. Paints, batteries, and some hazardous materials are being stored and segregated in seacans at the Metal Storage Area.

SECTION 2 ☐ Comments ☐ Non-Compliance with Act or Licence ☐ Action Required

Click here to enter text.

Inspector's Name

Justin Hack

Signature

Date

September 23, 2016