



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Cape Dorset	Eric Langdon
Licence No. / Expiry	Representative's Title
3BM-CAP0810 (expired)	Mechanic
Land / Other Authorizations	
None	
Date of Inspection	Inspector
July 26 , 2015	Justin HACK
Activities Inspected	
<input checked="" type="checkbox"/> Camp/Municipality <input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Drilling <input type="checkbox"/> Other:
<input type="checkbox"/> Mining	<input type="checkbox"/> Construction <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	A		Water Management Structures	U		Storage	A	
Flow Measure. Device	A		Culverts / Bridges	A		Spills	A	
Source:	A		Drainage	U		Spill Plan	A	
Water Use:	A		Erosion / Sediment	A				
Recirculation (y /n)	NA		Mitigation Measures	A		Administrative		
			Reclamation Activities	A		Records	NA	
			Materials Storage	A		Reports	NI	
Waste Disposal			Signage	A		Plans	NI	
Waste Water	U					Notifications	A	
Solid Waste	U		Monitoring			Other		
Hazardous Waste	A		Sample Collection / Analysis	NI				
<i>*The number in the comments field will correspond with specific comments provided below.</i>								
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
Inspectors Statement			
<p>On July 26 2015, a water licence inspection was conducted at the Hamlet of Cape Dorset, Qikiqtani Region, Nunavut. Sites inspected included the New Lagoon (uncommisioned), the Emergency Lagoon, the Three-Tier Lagoon, the Solid Waste Disposal Facility, the Metal Storage Area and the Water Distribution Facilities.</p> <p>Background</p> <p>The Hamlet of Cape Dorset has an expired licence for Municipal Undertakings for the use of 192 cubic meters of water per day and for the deposit of waste.</p> <p>AANDC is working with the community to upgrade and replace municipal water and waste water infrastructure to maintain essential services and mitigate non-compliance through voluntary compliance with the expired licence as required in Section 46 of the Act.</p> <p>Community and Government Services has been helping the Hamlet of Cape Dorset renew the licence since 2010.</p> <p>In the interim, immediate risks related to water and waste disposal will be managed using an Inspector’s Directions until a Water Licence is issued. A direction related to the breached Three-Tier Lagoon was sent to the Hamlet of Cape Dorset on July 29, 2015.</p> <p>Inspection</p> <p>Water Use and related structures:</p> <ol style="list-style-type: none">Water is being withdrawn from the T-Lake as approved in the expired Water Licence.In 2014, the Hamlet of Cape Dorset withdrew approximately a total of 54,723m³ of water and is withdrawing water at approximately the same rate in 2015.Due to the distance between T-Lake and the Water Treatment and Storage Facility, the intermittent flow of the water line and issues with the heat trace, the water line is freezing. The Hamlet is finding solutions to this problem in the interim.Water withdrawal records were inspected and were up-to-date. <p>Three Tier Lagoon and Emergency Lagoon</p> <ol style="list-style-type: none">At the time of the inspection, the berm wall of the third cell suffered a significant failure due to frozen culverts within the facility and overloading due to surface run-off.			



- 6. An Inspector’s Direction was issued to the Hamlet of Cape Dorset to undertake immediate remedial works on the facility to ensure the facility is working more effectively.
- 7. The unused Emergency Lagoon will be used while remedial works occur on the Three-Tier Lagoon.
- 8. The Three-Tier Lagoon is significantly undersized to effectively treat the sewage in the Hamlet and it is imperative that the 2007 Lagoon is commissioned as soon as possible.

2007 Lagoon

- 9. The facility still has not been commissioned and water continues to leak out of the berm.
- 10. It is recommended that an Engineer inspect this Facility and determine if it is appropriate for use.

Solid Waste Facility:

- 11. Fencing around the Solid Waste Disposal Facility was windblown on the western edge but the Hamlet was actively fixing this concern
- 12. As part of the operation of this facility, open burning is a common practice. I have concern with this practice because, due to changing watercourse patterns, an active stream flows through the landfill. Samples were taken downstream of this facility to understand which contaminants are entering water.
- 13. As a temporary solution to this, the Hamlet has agreed to divert the water course around the Solid Waste Facility to minimize surface water intrusion and leachate generation. The Licensee has agreed to address this issue by September 30, 2015. Photos to be provided upon completion.

Metal Storage Area

- 14. The community is segregating and storing metals within the Metal Storage Area.
- 15. Batteries are being stored in a contained sea can in anticipation for transportation to a southern disposal facility.
- 16. Water flows though the facility and there is concern that contaminants are leaching into this watercourse. The Hamlet has provided a plan on a solution to divert the watercourse around the facility to minimize surface water intrusion and leachate generation.

Hazardous Waste:

- 17. Some hazardous waste and batteries are being segregated in the Metal Storage Area. The materials are being stored sufficiently away from any watercourses and within sea cans.

Reports/Records:

- 18. Records for Water Use were in good order.
- 19. 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

August 26, 2015