



WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Resolute Bay	Bhabesh Roy
Licence No. / Expiry	Representative's Title
3BM-RES1520 expires March 29, 2020	Municipal Engineer
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 12, 2019	Joseph Monteith & Jeremy Fraser
Activities Inspected	
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Mining
	<input checked="" type="checkbox"/> Other: Solid Waste Facility, Hazardous Waste Facility
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other:

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:	Condition		Observation No.*		
A: SCOPE, DEFINITIONS AND ENFORCEMENT	A				
B: GENERAL CONDITIONS	C				
C: CONDITIONS APPLYING TO SECURITY	NI				
D: CONDITIONS APPLYING TO WATER USE	NI				
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT	A		1-16		
F: CONDITIONS APPLYING TO MODIFICATIONS	NI				
G: CONDITIONS APPLYING TO CONSTRUCTION	NI				
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING	A				
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING	NA				
J: CONDITIONS APPLYING TO MONITORING	A				
SCHEDULES	A				
* The observation number corresponds with specific comments provided below.					
Samples taken by Inspector:	Location(s): Latitude: 74°43'01"N Longitude: 94°58'10"W				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

SECTION 1	<input type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
BACKGROUND			
<p>The Hamlet of Resolute Bay (Hamlet) is located on the south coast of Cornwallis Island on the Perry Channel. Located at 74°43'01"N and 94°58'10"W, the community is approximately 1550 km northwest of Iqaluit. In the early 1970's, the settlement was relocated from the beach area to the present location. In 2012, 269 individuals were residing in the community though the relocated community was designed to accommodate 1,500 people. There are three water licences for this community. The Hamlet of Resolute Bay was initially issued Licence 3BM-RES9699 for water use, sewage and solid waste disposal. In 2010, the Government of Nunavut, Community and Government Services (GN-CGS) was issued Licence 3BM-RUT1012, subsequently renewed in 2015 as 3BM-RUT1520 for the use of water and disposal of sewage through the Utilidor Systems. Currently, the Hamlet holds the expired Licence 3BM-RES9699 for the Hamlet's solid waste management. In 2003, the GN-CGS applied for and was issued the now expired Licence NWB3YRB0308, for the use of water and deposit of waste at the Hamlet's airport facility. Due to the delayed plans to refurbish the airport facilities (Licence No. 3BM-YRB0308), the Board decided to proceed and process the renewals for the Solid Waste Management Facility (Licence No. 3BM-RES9699) and the Utilidor System (Licence No. 3BM-RUT1520) independently.</p>			
Inspector Statement			
<p>On July 13, 2019 at 9:00am, A Water Licence Inspection was conducted by Water Resource Officer (WRO) Joseph Monteith at the Hamlet of Resolute Bay, Qikiqtani Region, Nunavut, for water licence 3BM-RES1520. The inspection was complete on July 13, 2019 at 3:10pm.</p>			
General Condition			
<p>On July 12, 2018 Richard Dwyer, Nunavut Water Board, Manager of Licencing emailed WRO Monteith a copy of the NWB's technical review for Hamlet of Resolute Bay's 2017 Annual Report. Initially satisfying Part B: Subsection 1, but upon review additional information is necessary to meet the following requirements of the Licence: Part B, Item 1(c), Part H, Item 5(amendment 1), Part G, Item 8 (Amendment 1), Part H, Item, 5</p>			



(Amendment 1), Part F, Item 1(Main Licence), Part G, Item 7(Main Licence).

Solid Waste Facility 1 (by the beach)

1. The Hamlet manages their domestic waste by burning and capping along the beach on the south side of the community approximately 206 metres from the high water mark of the ocean. The site doesn't appear to be lined, no signs of water flowing in and out of the facility. This site also appears to be in a state close to decommissioning in favor of a new site. (See Photo 1).
2. No minimum 10 day notice has been given to the inspector since April 2018 for open pit burning.
3. A blank yellow triangle sign was observed at the time of the inspection of the burn and cap, indicating a monitoring site (See Photo 2). A caution sign was observed cautioning the public from dumping Hazardous Material, Metals, and Rubber Tires, and Tracks. Both signs also in Inuktitut (See Photo 3).
4. No signs of water entering the facility (photo 1).
5. No signs of leachate leaving the facility (photo 2).

Metal Dump (Within Community)

6. The Metal Dump facility located with the community of Resolute Bay has a mixture of white waste such as water heaters, washers, dryers, fridges, and freezers. Bulk Metal such as abandoned vehicles such as trucks and snowmobiles, pipes, and storage tanks. (See Photo 4).
7. Water enters the site coming out from underground and migrating through the facility (photo 5, 6 & 7).
8. Hazardous Waste such as; old batteries, turbine oil, and waste oil drums and propane cylinders was observed unsegregated around the Metal Dump section (photo 8, 9, 10, &11).

Hazardous Waste (within Community)

9. The hazardous waste within the community is exposed to the elements. With some waste oil drums in a berm, while the majority of the hazardous waste outside of a berm (See Photo 8, 9, 10, 11).
10. Signs of leaks were observed on site at the time of the inspection. (See Photo ,9, 10, & 11).

Domestic Waste (4 km south west of the community)

11. Water build up at the domestic waste facility next to the entrance of the facility (photo 13).
12. Hazardous Waste Battery observed exposed to the outside elements within the fenced area of the domestic waste facility (photo 14).
13. Hazardous Waste Battery observed exposed to the outside elements within the fenced area of the domestic waste facility (photo 15).
14. Hazardous Waste Oil Cans observed exposed to the outside elements within the fenced area of the domestic waste facility (photo 16).
15. Hazardous Waste Gasoline Jerry cans, and paint cans observed exposed to the outside elements within the fenced area of the domestic solid waste facility (photo 17).
16. Underground water, exits Domestic Solid Waste Facility (photo 18).

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
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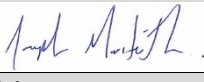
The items listed below are the action's required as summarized from above to ensure compliance: <ul style="list-style-type: none">• Please label Monitoring Site listed in the water licence as 1571-5.• Consolidate all hazardous waste in the Bulk Metal Storage Facility and Domestic Solid Waste Facility, and store in the hazardous waste section of the Solid Waste Facility• Consolidate all hazardous waste drums with leaks, and store in an area that prevents the deposit of deleterious substances into any water.• The Licensee is reminded to remain diligent to prevent wastes from entering water, and the environment.• Notify the inspector 10 days ahead of a planned open pit burn by emailing Water resource Officer Joseph Monteith @ joseph.monteith@Canada.ca.			
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SECTION 3	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
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<p>Part D: Item 3</p> <p>The Licensee shall provide a minimum of ten (10) days' notice to an Inspector, of the intent to open burn municipal Waste in accordance with the Government of Nunavut's Environmental Guideline for the Burning and Incineration of Solid Waste (2012), at the designated location at the Solid Waste Facilities, including the details of the types and quantity of Waste to be burned, proposed dates, protocols to be followed, ultimate disposal of residual ash and the person responsible for the activity.</p> <p>Part D: Item 4</p> <p>The Licensee shall segregate and store all hazardous waste within the Solid Waste Facilities in such a manner as to prevent the deposit of deleterious substances into any Water, until such a time that the materials have been removed</p>			
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for proper disposal at an approved facility.

Licensee or Representative	Inspector's Name
Bhabesh Roy	Joseph Monteith
Signature	Signature
	
Date	Date
	November 23, 2019

CC: Licensing Department, NWB
Justin Hack, Manager of Field Operations, CIRNAC

PHOTO LOG

Date	Camera	Inspector	
July 13, 2019	Nikon Cool Pix	Joseph Monteith	
Photo Log	Location		
Photo 1	Resolute Bay		
			
Description: No Signs of leachate migrating to the ocean from burn and cap section of the Solid Waste Facility. Site has been mostly Capped			



Photo Log	Location
Photo 2	Resolute Bay
	
Description: This is all that is left to cap off to close the burn and cap land fill. Scheduled to be decommissioned in place of a new facility.	

Photo Log	Location
Photo 3	Resolute Bay
	
Description: Two signs at the Solid Waste Facility in 2 of the Official Languages of Nunavut. 2018 photo has garbage in background.	

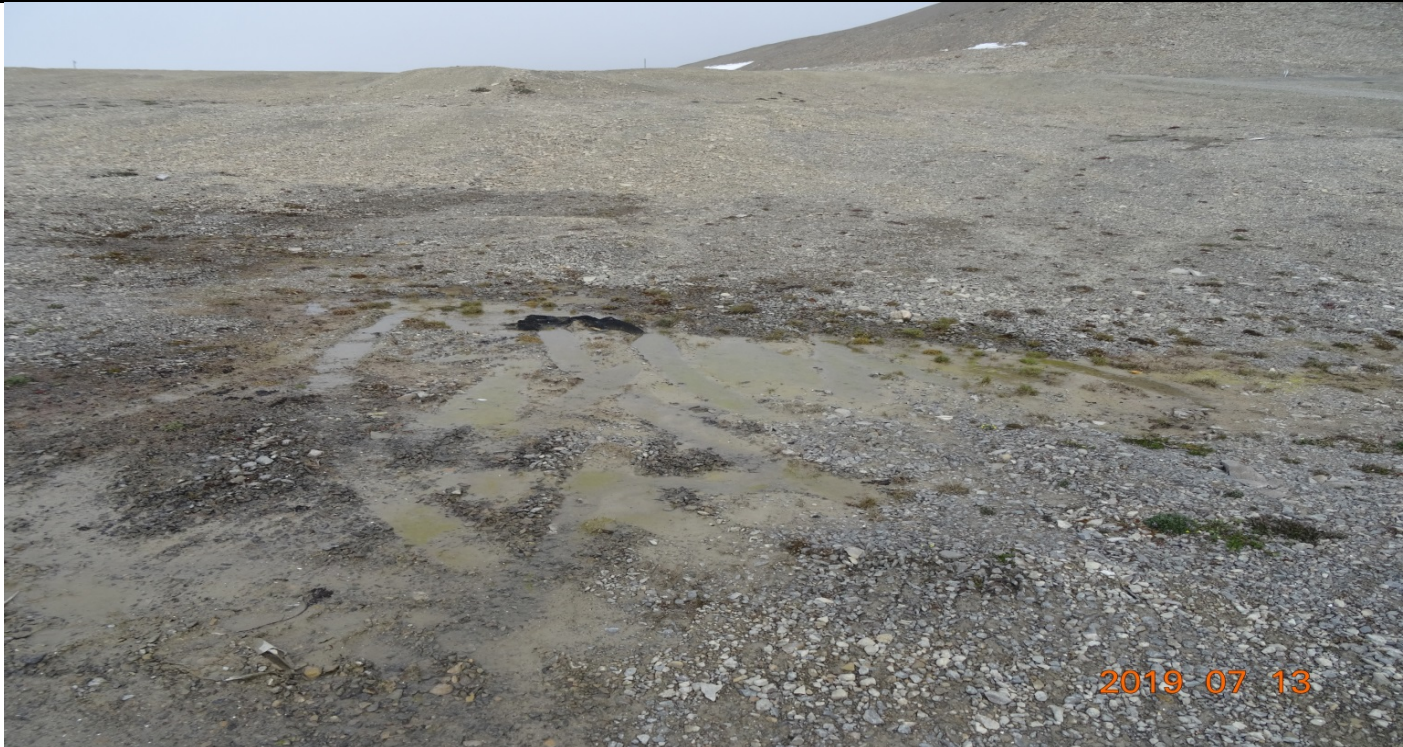


Photo Log	Location
Photo 4	Resolute Bay



Description: Bulk Metals Facility. Approached site from a different route in mind. Missed the sign, but it was observed upon arrival.

Photo Log	Location
Photo 5	Resolute Bay



Description: North side of Bulk Metals. Subsurface water drainage appears to come out north of the Bulk Metals Facility.



Photo Log	Location
Photo 6	Resolute Bay
	
Description: Subsurface Water Drainage surfaces and migrates down through the bulk metals facility	

Photo Log	Location
Photo 7	Resolute Bay
	
Description: water mixing with the Bulk Metals.	



Photo Log	Location
Photo 8	Resolute Bay
	
Description: damaged battery and empty drum of oil in the Bulk Metal facility	

Photo Log	Location
Photo 9	Resolute Bay
	
Description: Drums observed leaking onto the receiving environment removed. No clean-up of product spilt.	



Photo Log	Location
Photo 10	Resolute Bay
	
Description: Waste Oil Drums within bermed section of the Hazardous Waste section of the Solid Waste Facility	

Photo Log	Location
Photo 11	Resolute Bay
	
Description: unknown drum leak outside the bermed area of the hazardous waste area. ALERT Label. Sign of spill on ground.	



Photo Log

Photo 12

Location

Resolute Bay



Description: Empty tanks, possibly acetelene, oxygen, or propane cylinders.

Photo Log

Photo 13

Location

Resolute Bay



Description: Water accumulation within the fenced area of the second Solid Waste Facility.



Photo Log	Location
Photo 14	Resolute Bay
	
Description: Hazardous Waste Battery, exposed to the outside elements.	

Photo Log	Location
Photo 15	Resolute Bay
	
Description: Hazardous Waste battery, exposed to the outside elements, and mixed with the solid waste.	



Photo Log

Location

Photo 16

Resolute Bay



Description: Oil cans, exposed to the outside elements - Possibly empty.

Photo Log

Location

Photo 17

Resolute Bay



Description: Empty 5 gallon jerry cans, and paint cans litter the 2nd solid waste facility.



Photo Log	Location
Photo 18	Resolute Bay
	
Description: underground water, appears to come out aboveground just beyond the fencing of the 2 nd solid waste facility.	