



INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Baffinland Iron Mines Corporation(BIMC)	William Bowden
Licence No. / Expiry	Representative's Title
2AM-MRY1325	Environmental Superintendent
Land / Other Authorizations	Land / Other Authorizations
8BC-MRY1416, 2BE-MRY1421	N2014X0012, N2014Q0016, N2014C0013
Date of Inspection	Inspector
February 17-18, 2020	Jonathan MESHER
Activities Inspected	
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input checked="" type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Mining	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other: Municipality

SECTION 1	<input checked="" type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
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Inspector Statement

A water licence inspection was conducted at Mary River and Milne Inlet to ensure compliance with the terms and conditions of the Water Licence 2AM-MRY1325. This inspection was conducted by Water Resource Officer JONATHAN MESHER on February 17th through 18th, 2019.

Inspection

1. Tote Road, Bridges and associated Water management structures.

a) During the inspection the licensee was still utilizing Ice roads to cross the river usually crossed by bridges.

b) Water management structures throughout the tote road were snow covered making it difficult to identify any concerns.

2. Ore Stockpile and associated water management structures.

a) In the previous inspection (September 2019) the Inspector noted the following “The Inspector identified discrepancies between the Ore Stockpile Pad and the provided AS-BUILT/ Issue for construction drawings (IFC) produced by HATCH (H349000-2133-10-035-0002). The Pad appears to be missing outer berms and the ditches on the SE side near the entrance. Once identified, the inspector requested the licensee to install the required ditches within 30 days as of September 17, 2019 and is to install all berms described in the engineered drawings.” During this inspection it had appeared that the missing structures were installed but, the facility was mainly snow covered making it had to verify. A more detailed inspection will conducted in spring of 2020 to verify the water management structures are built to the specification described in the As- built drawings.

b) All the containment ponds associated with this structure appeared to be pumped out to prepare for Freshet. See photo 1 for MP-05 and Photo for MP-06.

c) The newly constructed pond on the Ore Stockpile Pad (Pond number 3) is not complete, the licensee plans to have it operational prior to Freshet 2020.

d) The Berms and gradient on the South side of the Ore Stockpile Pad has not been constructed properly, the licensee states that it will require pumps to get the water to the associated containment ponds.

I. PART D, Item 17 states; The Licensee shall supervise and field check through an appropriately qualified Engineer, all construction of Engineered Structures in such a manner that the project specification can be enforced, and where required, the quality control measures are followed. The inspector is requesting the licensee provide proof that the construction of this facility has been supervised and field checked by qualified Engineer, due to previous water management structures failing because of the lack of engineer oversight at the time of construction and requirement of the Licence 2AM-MRY1325 described in Part D, Item 17.



3. Waste Rock Stockpile and associated Water management structures.

- a) At the time of the inspection, the Waste Rock Stockpile Containment Pond was complete, the construction had completed in January 2020, The inspector is requesting the licensee provide the exact date of completion of this facility and ensure that the plans described in PART G, Item 6 are submitted within the timeframe given. See Photo 4 for the Waste Rock Stockpile containment pond.
- b) The licensee had cleared the area between the pile and the recently installed ditches on east side of the Waste Rock Stockpile, the licensee stated that this area was cleared and a layer of Non-acid generating (NAG) waste rock has been laid prior to any deposits of potentially acid generating (PAG). See Photo 3 for the cleared area on the East side of the stockpile.
- c) The Waste Rock Stockpile and water management structures were snow-covered at the time of the inspection making it hard to identify and potential concerns.

4. Ore Crushing Pad and associated water management structures.

- a) In the previous inspection (September 2019) the Inspector noted the following “the ditch system around the stockpile was not functioning as intended. The licensee is currently pumping water into the ponds from the pooling water on the Pad.” The ditches are still not operational; the licensee is still planning to have them repaired prior to Freshet 2020. This facility will be thoroughly inspected in 2020 to ensure the facility is constructed as described In the approved engineered drawings.
- b) Since May, 2016 CIRNAC has identified pooling water within the crusher pad, the inability of BIMC to effectively manage surface water in the facility is a continual problem on this unlined Pad. This Pad is only approved as described in the As-built and IFC drawings, in the engineered drawings the surface water should flow to the ditches without the need for human intervention such as pumps, due to the slope of the pad. The licensee is to develop a plan to ensure this facility is appropriately maintained, the inspector is requesting that this plan include schedules for grading of the facility to ensure that this pooling discontinues, grade is maintained throughout the seasons and the ditches surrounding the facility are operating as intended. See photos 5 and 6 for the ore crushing pad.

5. Landfill

- a) At the time of the inspection the new fence surrounding the landfill was completed, the landfill was left unlocked and unmanned.
- b) The inspector noted small amounts food waste within the Landfill, see photo 7 for the food waste identified. In section 3.7 of BIMC’s Waste Management Plan (BAF-PH1-830-P16-0028) Baffinland states that: “Disposal of all domestic (food) waste, hazardous and biomedical materials at the Landfill Facility is prohibited.” BIMC is encouraged to continue to educate its employees in order to prevent further unapproved deposits of food waste into this facility.
- c) There was also a large pile of cigarette butts found in the landfill, I am not certain if the cigarette is intended to be deposited of within this land fill. The inspector will correspond with the NWB to determine if this is an appropriate activity. See photo 8 for the cigarette butts.

6. New Fuel facility at Mary River site.


- a) At the time of the inspection the hose used for fuel transfer was actively leaking, the snow within the containment berm had a strong smell of Diesel Fuel. The licensee explained that this leak was from a gasket on the coupling. See Photo 9 for the leaking coupling and 10 for the hose sitting outside the drip tray.

7. Spill identified during the inspection.

- a) While on site the inspector identified a spill at the km 60 rest stop.



Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
The following is a list of non-compliance and actions required by the Licensee.		
a) The inspector is requesting the licensee provide proof that the construction of the recent water management structures have been supervised and field checked by qualified Engineer, due to previous water management structures failing because of the lack of engineer oversight at the time of construction and requirement of the Licence 2AM-MRY1325 described in Part D, Item 17.		
b) The inspector is requesting the licensee provide the exact date of completion of the Waste Rock Stockpile sedimentation pond and ensure that the plans described in PART G, Item 6 are submitted within the timeframe given.		
c) The licensee is to develop a plan to ensure that the ore stockpile pad is appropriately maintained, the inspector is requesting that this plan include schedules for grading of the facility to ensure that this pooling discontinues, grade is maintained throughout the seasons and the ditches surrounding the facility are operating as intended.		

Licensee or Representative	Inspector's Name
	Jonathan Mesher
Signature	Signature
	
Date	Date
	10/8/2019

Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input type="checkbox"/> No
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CC: Licensing Department, NWB
 Justin Hack, Manager of Field Operations, CIRNAC


PHOTO LOG

Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log	Location Iqaluit		
Photo 1			
			
Description: MP-05 sedimentation pond			




Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 2			
			
Description: MP-06 Sedimentation pond.			


Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 3			
			
Description: WRSP- cleared area to allow for pile increase.			

Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 4			
			
Description: waste rock Stockpile Sedimentation Pond.			

Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 5			
			
Description: Crusher pad looking Southwest.			



Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 6			
			
Description: Crushing area looking Northeast.			

Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 7			
			
Description: Food waste within landfill.			



Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY

Photo Log

Location Iqaluit

Photo 8



Description: Cigarette butts within the lanfdill.

Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY

Photo Log


Location Iqaluit

Photo 9



Description: leaking coupling.



Date	Camera	Inspector	Authorization
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log		Location Iqaluit	
Photo 10			
			
Description: hose from leaking coupling.			