

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
BAFFINLAND IRON MINES CORPORATION	Connor D.
Licence No. / Expiry	Representative's Title
2AM-MRY1325	Environmental Superintendent
Land / Other Authorizations	Land / Other Authorizations
2BE-MRY1421	N2014X0012, N2014Q0016, N2014C0013
Date of Inspection	Inspector
January 23-24, 2019	Jonathan Mesher
Activities Inspected	
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Mining
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other:

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	C		Storage	C	
Flow Measure. Device	A		Culverts / Bridges	A		Spills	A	
Source:	A		Drainage	C		Spill Plan	A	
Water Use:	A		Erosion / Sediment	C				
Recirculation (y /n)	N		Mitigation Measures	A		Administrative		
Containment Ditches	U		Reclamation Activities	A		Records	A	
			Materials Storage	A		Reports	Ni	
Waste Disposal			Signage	A		Plans	Ni	
Waste Water	U					Notifications	A	
Solid Waste	A		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:

☐ Yes ☒ No

SECTION 1 ☒ Comments (s. __) ☐ Non-Compliance with Act or Licence (s. __) ☐ Action Required (s. __)

Background

An inspection was conducted by Jonathan Mesher and Jeremy Fraser, Water Resource Officers of CIRNAC. At the time of inspection, the Licensee was undertaking activities related to the operation of an open-pit iron ore mine at the Mine Site (Mary River), Milne Port (Milne Inlet), and Tote Road. The site was mostly snow covered and the temperature was steady around -30 degrees Celsius.

Construction activities on site include the construction of the new 800 man camp at Mary River site, increasing the capacity of the West sedimentation pond at Milne Inlet, construction of a ditch on “Milne Hill” in Milne inlet, construction of laydown area’s W10A and W10B at Milne inlet and, construction of a new truck wash shop at the mine site.

The Inspector noted the following concerns listed below and is requesting that the licensee provide a response to the concerns within 30 days of receiving this Inspection Report.

1. Ore Crushing Area and Associated Water Management Structures

a. At the time of the inspection, the majority of the waste and water management structures at this facility were snow covered making it difficult to identify and potential concerns.

b. The licensee is currently in the process of clearing iron ore away from the ditches and is re-installing the required buffer zone between the ditches and the stockpile to allow single lane traffic. The licensee has committed to completing this work prior to May 15, 2019.

c. No other concerns were noted at the time of the inspection.

2. Waste Rock Stockpile and Associated Water Management Structures

a. At the time of the inspection the majority of the waste and water management structures at this facility were snow covered making it difficult to identify and potential concerns.



- b. This facility is one of the Major concerns at Baffinland for CIRNAC and other regulatory agencies; the licensee is currently developing a plan to determine the best way to upgrade the ditches and the containment pond. No plans have been submitted yet but, the licensee informed the inspector that the plan will be complete in less than a month during the time of the inspection.
- c. The licensee has recently installed 6 out of 8 thermistors within the Waste Rock Stockpile, this will better help understand the temperature gradients and help predict/ mitigate the Acid Rock Drainage.
- d. The licensee is currently in the process of covering the West side of the Waste Rock Stockpile with non-acid generating (NAG) waste rock, this will help limit the exposure to the elements. While questioning the licensee on the current stacking strategy of potential acid generating (PAG) and NAG waste rock, the licensee still had no plan cover the East side of the Waste Rock Stockpile with NAG. If the licensee fails to fully encapsulate the PAG there may continue to be Acid Rock Drainage (ARD) issues at this facility. The inspector is requesting a timeline or a plan for when the East side of this facility will be covered by NAG be submitted with the follow up to this report within 30 days of receiving this report.

3. Hazardous Waste Berms (HWB)

- a. At the time of the inspection the majority of the waste and water management structures at this facility were snow covered making it difficult to identify any potential concerns. No concerns were noted.

4. Polishing Waste Stabilization Ponds (PWSP)

- a. At the time of the inspection the majority of the waste and water management structures at this facility were snow covered making it difficult to identify any potential concerns. No concerns were noted.

5. Non-Hazardous Landfill

- a. In previous inspection reports there were concerns noted regarding the deposit of unauthorized waste to this facility. During the August 2018 Inspection, it was noted that the licensee had locked the facility, during the most recent inspection this facility was not locked and the gate was snowed in leading the inspector to believe that they have stopped locking the facility.
- b. If the licensee continues to deposit unauthorized waste into the non-hazardous landfill, future enforcement actions may be required.

6. Ore Stockpile Pad and Related Water Management Structures at Milne Inlet

- a. At the time of the inspection the licensee was in the process of increasing the capacity of the West Sedimentation Pond of the Ore Stockpile.
- b. No concerns were identified at the time of the inspection.

7. Laydown in Milne Inlet (W10A and W10B)

- a. The licensee has constructed Lay Down Pads W10A and W10B at Milne Inlet; the pads are currently storing aggregate for future development. The Pads W10A and W10B are identified in Modification No. 7, HATCH drawing H353004-40000-220-272-0006-0001 dated 15/02/2018.
- b. The snow cover made it difficult to identify the limits of the pad; this site will be inspected in the summer of 2019. No concerns were noted at the time of the inspection.

☐ Comments

☐ Non-Compliance with Act or Licence

☐ Action Required

Click here to enter text.


SECTION 3

☐ Comments

☐ Non-Compliance with Act or Licence

☐ Action Required

Click here to enter text.

Licensee or Representative Connor Devereaux	Inspector's Name Jonathan Mesher
Signature 	Signature 
Date 03/18/2019	Date 1/30/2019

Office Use Only: Follow-up report to be issued by Inspector

☐ Yes ☐ No

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



PHOTO LOG

Date	Camera	Inspector	Authorization
August 22, 2018	Sony Cyber-shot	J.Mesher	2AM-MRY1325

Photo Log
Photo 1

Location Baffinland



Description: Inspector Jeremy FRASER and Chase, Manager of Ore crusher pad, walk parameter of crusher pad. Managers have verbally agreed to have Ditching and single lane traffic road to be constructed prior to May 15 2019.

Photo Log #
Photo 2

Location Baffinland



Description: Snow covered hazardous waste storage facility



Photo Log #	Location Baffinland	
Photo 3	N	W



Description: Snow covered facility

Photo Log #	Location: Baffinland	
Photo 4	N	W



Description: Snow covered waste management facility.