



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Agnico-Eagle Mines Limited	Robin Allard
Licence No. / Expiry	Representative's Title
2BB-MEA1828 / March 6 th 2028	Senior Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
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Date of Inspection	Inspector
August 28 th to 30 th 2018	WRO T.Morton
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input checked="" type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Other: Water Supply
<input checked="" type="checkbox"/> Mining	<input type="checkbox"/> Construction <input type="checkbox"/> Other:
	<input type="checkbox"/> Reclamation
	<input checked="" type="checkbox"/> Fuel Storage

SECTION 1	<input checked="" type="checkbox"/> Comments (s.1)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
<p>On August 28th & 29th 2018 an onsite inspection was conducted of the Agnico Eagle Mines' ('AEM') Amaruq advanced exploration project, authorized under water licence no. 2BB-MEA1828. The inspection was completed by Indigenous and Northern Affairs Canada's Water Resource Officer Tim Morton and was conducted to ensure compliance with the above stated water licence and approved management plans.</p> <p>This report was produced with the findings collected during the inspection.</p> <p><i>Observations</i></p> <ol style="list-style-type: none">All of the fuel tanks and piping appeared to be in good shape and no hydrocarbon spills were noted near any of the Amaruq tanks (Photo #1).There were some small hydrocarbon/grease stains around the white maintenance building that need to be removed and disposed of in accordance with the approved management plans (Photo #2).AEM has contracted Orbit Garant Drilling to conduct the exploration drilling throughout the Amaruq area. The drilling locations inspected were located within the Amaruq camp area and thus within the mines footprint. The drilling operation used Xtra85 calcium chloride down hole and recirculated the cuttings to minimize water use and waste disposal to the nearby lands. The drills inspected were at least 100 meters set back from any water and no concerns were noted with the cuttings disposal during the inspection (Photos #4 & #5).Water return from the portal reports to water management pond AP5 (Photo #6). The water returning to AP5 contains high levels of chlorides as it originates from the saline plant where it is mixed with ~800 kg of calcium per 3,000 liters of water. This water is pumped from the plant to the underground drills then reports back to AP5. The Inspector was concerned with the possibility of the saline water leaching prior to treatment from AP5 and entering nearby waters. Information regarding the design of AP5 and the pump rate to AP5 were requested during the inspection to help determine if there is any seeping of water.The water treatment plant was not discharging at the time of the inspection. The plant is designed to treat TSS only and has inline turbidity sensors to monitor the water entering and leaving the plant. Signs labeling all discharge points must be obtained and installed throughout the entire site. The discharge location will be moved once the water treatment plant is restarted in the spring.The sewage treatment plant discharges through ST MEA2 and reports to Whale Tail North. The effluent leaves the plant and enters a causeway containing riprap check dams to slow it down before entering Whale Tail North.Water samples were taken at WWTP MEA-2 for the following parameters: TSS, Fecal Coliforms, BOD, Total Metals, and HEM(O&G). The effluent was discharging at a pH of 6.9 at the time of the sampling which is within the licence criteria. The sample results will be shared with AEM once they are received.Spill #18-316 was discussed during the inspection. The impacted soils were removed and shipped to the Meadowbank for disposal.			
SECTION 2	<input type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.2)	<input type="checkbox"/> Action Required (s.__)
SECTION 3	<input type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence, (s.__)	<input type="checkbox"/> Action Required (s.3)

Licensee or Representative	Inspector's Name
	WRO T.Morton
Signature	Signature
	Original signed on file
Date	Date
	September 28 th 2018

Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Indigenous and Northern Affairs Canada Affaires autochtones et du Nord Canada

cc. Erik Allain, Director, Lands Administration, INAC
Manager, Licensing, Nunavut Water Board
Robin Allard, Environmental Coordinator, AEM



Attached:

Photo Log, August 28th & 29th 2018

PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 28 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 1			



Description:
Fuel storage area located northeast of the Amaruq camp.



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 28 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 2	



Description: Small hydrocarbon staining located near the camp.
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PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 3			



Description:
Overview of the Amaruq camp hazardous waste storage area.



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.		Lat/Long (DD.MM.SS.SS, NAD83)	
Photo 4			



Description:
Overview of drill located near the Amaruq Camp.



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 5			



Description:
Overview of the area surrounding the exploration drill.



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.		Lat/Long (DD.MM.SS.SS, NAD83)	
Photo 6			



Description:
Active flooding of the storm water storage pond (AP-5).



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 7			



Description:
MEA-2 discharge sampling location.



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
August 29 th , 2018	2BB-MEA1828	Panasonic Lumix DMC-TS5	WRO Morton
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 8			



Description:
MEA-2 samples prepared for shipping.