

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
2BB-MEL1424	Phillip Roy
Licence No. / Expiry	Representative's Title
July 21st, 2024	Environmental Technician
Land / Other Authorizations	Land / Other Authorizations
2BW-MEL1525	N2013C0002
Date of Inspection	Inspector
June 9 th , 2015	WRO Wilson
Activities Inspected	
<div><input checked="" type="checkbox"/> Camp<input type="checkbox"/> Drilling<input type="checkbox"/> Mining<input type="checkbox"/> Construction<input type="checkbox"/> Reclamation<input type="checkbox"/> Fuel Storage</div> <div><input checked="" type="checkbox"/> Roads/Hauling<input checked="" type="checkbox"/> Other: Water Discharge<input type="checkbox"/> Other:</div>	

Conditions:			A - Acceptable		C - Concern		U - Unacceptable		NA – Not Applicable		NI – Not Inspected	
Water Use		Condi tion	Comment	Site Conditions		Condition	Comment	Haz/Mat Management		Condition	Comment	
Intake/Screen		A	1	Water Management Structures		C	2	Storage		A		
Flow Measure. Device		A	1	Culverts / Bridges		NI		Spills		A		
Source: Meliadine Lake		NI	1	Drainage		C	3	Spill Plan		A		
Recirculation (y /n)		Y		Mitigation Measures		C	2	Administrative				
Waste Disposal				Signage		NI		Plans		A	4	
Waste Water		A	5	Monitoring				Other				
Waste Water Treatment		A	4	Sample Collection / Analysis		A	5					
*The number in the comments field will correspond with specific comments provided below.												
Samples taken by Inspector:				Location(s): No samples collect due to freezing conditions								
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												

SECTION 1	<input checked="" type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
<p>Agnico Eagle Mines Limited (AEML)’s Meliadine Gold Project was issued a renewed water licence on July 22th, 2014 by the Nunavut Water Board for the term of ten (10) years.</p> <p>On June 9th, 2015 a regularly scheduled compliance inspection was completed by Aboriginal Affairs and Northern Development Canada’s Water Resource Officer (WRO), Christine Wilson. AEML’s Environmental Technician, Phillip Roy accompanied WRO Wilson during the inspection. The following was noted.</p> <p><i>Pre Inspection Meeting</i></p> <ul style="list-style-type: none">— A construction team is arriving to complete 2015 mine pre-development work. The development consists of pad and access road construction but also includes erecting a communication tower and a new wing with 50 room accommodations.— There is currently 60 people onsite— Effluent from the Sewage Treatment Plant (STP) continues to meet criteria. No water has required additional treatment and containment in the retention tanks as per the Used Water Management Plan (May 2013). <p><i>Water Use</i></p> <ol style="list-style-type: none">1. One raw water intake continues to be utilized from Meliadine Lake, referred to as monitoring station “MEL-1” in the current water licence. Water required for use at the portal area is trucked from Mel 1 to the Portal.2. At the Portal there are two sumps used for water management referred to as “Sump 1” and “Portal Surface Sump” by AEM Environment Department. Sump 1 is located at the bottom of the ramp at the entrance to the Portal. This sump contains mine water from the underground exploration and also surface drainage that is captured by the Portal’s descent underground which originally drained toward Peanut Lake. The water collected in Sump 1 is metered and re-used in the underground exploration. This water is also pumped to Portal Surface Sump where it is stored for use. The Portal Surface Sump is located at the top of the Portal Ramp (see Photo 1). This sump collects some surface water but is mostly used as a secondary to Sump 1. The Portal Surface Sump does not discharge water but stores it for use in the underground exploration (etc.: drilling, brine mixing and recirculation).3. Located on the up gradient side of the the Ore and Rock Stockpile Area are ponds water (photo 4). Clarity is requested as to the natural drainage paths of the A57 and A58 Lakes (as referred to in figure 3 of MGP Waste Rock Management Plan- Aug 2010). <p><i>Waste Water</i></p> <ol style="list-style-type: none">4. AEML has fulfilled a number of the improvements detailed in the Used Water Management Plan (May 2013) throughout 2013/2014. This work has greatly improved the overall waste water treatment and discharge of the STP at the Meliadine Site. The completion of the dissipation channel in 2014 minimizes erosion at the STP effluent outfall referred to as “MEL 7” in the water licence.5. The management at the Burn Area and Recycling facility has improved. No unapproved items were noted during the inspection. The Inspector no longer requires monitoring of the runoff water though encourages AEML to make an independent determination.			
SECTION 2	<input type="checkbox"/> Comments (s.__)	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence (s.2)	<input type="checkbox"/> Action Required (s.__)
No non-compliance with the Act or Licence was noted at the time of the inspection.			

SECTION 3	<input type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence, (s.__)	<input checked="" type="checkbox"/> Action Required (s.3)
<ul style="list-style-type: none">The Inspector request clarification on the measures taken to minimize the impacts on surface drainage.The Inspector reminds the Licensee to review PART E item 9 which specifically discusses access road and pad construction.The Inspector was concerned with the lack of information available to the Nunavut Water Board regarding the Portal Surface Sump. The high water levels of Peanut Lake put this water management structure adjacent to a pond of water that feeds into Peanut Lake separated by only the portal pad/road (photo 3). Information is requested about the construction of this Portal Surface Sump before the term of the next inspection (August 2015). <p><i>Closing Remarks</i></p> <p>The AEML Environment Department has been helpful and accommodating while working with AANDC Inspector at the Kivalliq Regional Office. The intention is to have more frequent regularly scheduled inspection as changes develop.</p>			

Licensee or Representative	Inspector's Name
	WRO C Wilson
Signature	Signature
	<i>Sent by e-mail</i>
Date	Date
	July 21st, 2015

Office Use Only:	Follow-up report to be issued by Inspector	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Attached: 2BB-MEL1425 Photo Log, June 9th, 2015 and supporting photos from July 21st, 2015.

cc. Erik Allain, Manager Field Operations, AANDC
David Frenette, Environmental Coordinator, AEML



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
June 9 th , 2015	2BB-MEL1424	Sony DSC-HX50V Cyber shot	WRO Wilson
Locations name:		Lat/Long (DD.MM.SS.SS, NAD83)	
Photo 1		N63° 1' 36.47", W92° 12' 40.433"	



Descirption:
Portal Surface Sump

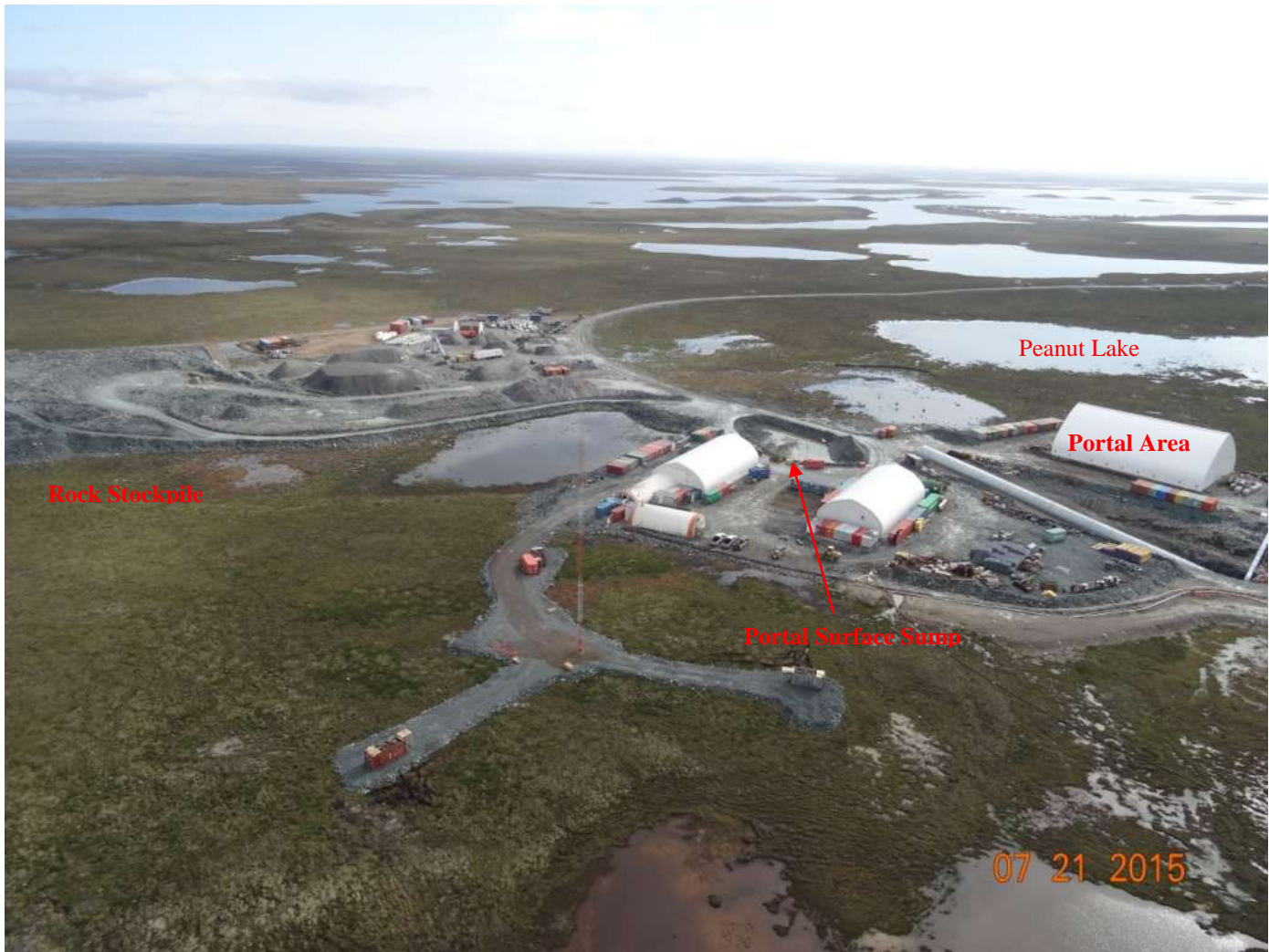
Locations name:	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 2	N 63° 1' 34.4819" W 92° 12' 34.09"



Description:
Pond of water adjacent to Portal Surface Sump and Silt Fensing up gradient from Peanut Lake.



Locations name:	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 3 (picture from July 21 st , 2015)	



Description:
Spacially reference of Portal and Rock Stockpile Areas



Locations name:

Photo 4 (picture from July 21st, 2015)

Lat/Long (DD.MM.SS.SS, NAD83)



Descirption:

Ore and Rock Stockpiles