

Appendix C

Inspection reports



ᐱᐱᐱᐱᐱᐱᐱᐱ/P.O. Box 340, ᐱᐱᐱᐱᐱᐱᐱ Rankin Inlet, ᐱᐱᐱᐱᐱᐱᐱ Nunavut X0C 0G0
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May 29, 2013

Agnico Eagle Canada
C.P. 87
765 Chemin de La Mine Goldex
Val-d'Or, Qc
Canada
J9P 4N9

*Site Visit
Meliadine Gold Project
Meliadine Lake Camp*

Dear Stephane Robert

The Kivalliq Inuit Association (KIA) completed a site visit of the Meliadine Gold Project property to the north of Rankin Inlet on May 22, 2013. The site visit was unannounced and unexpected by AEM and was in response to historical fecal coliform exceedances in Nunavut Water Board (NWB) License sampling point MEL-7.

One water sample was collected from the outflow of the rock filled sump. The sampling location as per the attached figure is downstream of NWB license requirement sampling point MEL-7. At the time of the site visit two (2) flow readings were collected to confirm discharge rates via a 2.5 Imperial gallon bucket and wrist watch. Flow rates were determined to be 7.5L/min and 8.0 L/min respectively at the time of sampling.

The water sample was submitted to ALS Laboratory in Yellowknife for analytical testing of microbiological constituents. Analytical results are presented in the table below.

Grey Water Sample

Parameter	Sample Date	Units	Result	NWB limit
Fecal Coliforms	May 22, 2013	CFU/ 100ml	<1	1000
Total Coliforms	May 22, 2013	MPN/100ml	>2420	- -
Escherichia Coli	May 22, 2013	MPN/100ml	50.4	- -

**Δ¹-C₂₇F₄₈-CHESTERFIELD INLET/ᑲᓄᓕᓐᓂᓐ-BAKER LAKE/ᑲᖃᓐᓕᓐ-RANKIN INLET/
ᑎᑭᓐᓂᓐ-WHALE COVE/ᑲᓐᓕᓐ-CORAL HARBOUR/ᓇᑯᓐᓂᓐ-REPULSE BAY/ᓂᓐᓂᓐ-ARVIAT**

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Kivalliq Inuit Association

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KIA will continue to sporadically monitor the wastewater discharge stream from the Meliadine camp to ensure protection of Inuit Owned Land and the interest of local users of the area.

If you have any questions or concerns please feel free to contact the undersigned at your earliest convenience.

Sincerely,



Stephen Hartman

Cc: Andrew Keim, Aboriginal Affairs and Northern Development Canada
Johanne Coutu-Autut, Wildlife Officer, Government of Nunavut
Phyllis Beaulieu, Nunavut Water Board

ᐃᑦᑦᑦᑦᑦ- CHESTERFIELD INLET/ᑲᑦᑦᑦᑦᑦ-BAKER LAKE/ᑲᑦᑦᑦᑦᑦ-RANKIN INLET/
ᐅᑦᑦᑦᑦᑦ-WHALE COVE/ᑲᑦᑦᑦᑦ-CORAL HARBOUR/ᓄᓇᑦ-REPULSE BAY/ᐃᑦᑦᑦ-ARVIAT



WATER USE INSPECTION REPORT FORM

Date: July 08, 2013	Licensee Rep. Stephane Robert, Regulatory Affairs- Agnico Eagle
Licensee: Agnico-Eagle Mines Ltd. (AEM)	License No: 2BB-MEL0914

Comments: A compliance inspection was conducted on the 8th of July, 2013, at the Meliadine Exploration Project. Stephane Robert, Regulatory Affairs with AEM, accompanied C. Wilson and A. Shouldice, AANDC on the inspection of the Meliadine site.

Prior to the inspection a briefing was provided to the Inspector by AEM Environment Division and the Site Manager. The following is a summary of the meeting;

- Construction on the site will be limited to the ramp and portal area (2nd Mega dome) for 2013.
- The construction of the ramp to the underground portal is underway. Claude Swiderski, Site Manager, is specifically responsible for the ramp construction.
- Ramp construction will be completed no later the October 1st, 2013.
- B15 drills will be used for the underground exploration program, with one drill operating for the first six (6) months. AEM estimates 4m³ of water a day will be used, with drill waste deposited underground.
- Mine site construction to commence in the fall of 2014.
- The actual construction of the mine site will be completed under the type 'B' license; renewal will be under a type 'A' in 2015.
- Three (3) or four (4) drills are operating at this time.
- Daniel Seguin is the supervisor of the road construction/maintenance.
- Danielle Jordan, summer student for the Environment Division, AEM, will be taking part in the inspection.

WATER SUPPLY

Source(s): Meliadine Lake	Quantity used: NI
Owner:/Operator: Agnico-Eagle Mines Ltd.	

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: A	Storage Structure: A	Treatment Systems: A	Chemical Storage: NI
Flow Meas. Device: A	Conveyance Lines: A	Pumping Stations: A	Screen : A

Comments: The issued License authorizes a total daily water volume consumption of 90 m³. On June 28th, 2010, Amendment one (1) was approved by the Board to allow for an increase in total daily volume water consumption. The authorized amount per day is 290m³. The proponent is within the daily consumption limits.

WASTE DISPOSAL

Waste water

Comment: The following was noted during the inspection;

- Snow and ice removed from the ramp area and portal entrance is secured in a settling pond adjacent to the ramp location.
- The contractor for the ramp construction is Semak.
- The Ore Rock Storage Facility (ORSF) has a small pond of water on the North side of the facility. The water is contained between two roads –east and west side of facility- which have been lined with geo-tech material.
- The pond of water has been present during the last two years of inspections. On the most Eastern side of the ORSF the road is showing signs of overtopping. The road appeared saturated with visible sag in the areas with high levels of water. Contact water must be managed in accordance with the Meliadine Gold Project Water Management Plan revised August 25, 2010. The Proponent is encouraged to improve contact water management in development areas as weather events like the May 2013 snowfall are unforeseeable.
- At N 63° 01' 24.5", W 92° 10' 53.7" a burn area and recycling facility has been established. The area is located over thirty-one (31) meters from any water body though monitoring of leachate was not considered in the development. A representative sample was taken by the Inspector from water ponding with in the ash and debris pile. Analysis of this water has not yet been received by the Inspector.
- Any sampling results will be provided to AEM as requested by the Environment division

SAMPLES collected from STP-OUT (MEL-7)

Solid waste

- Amendment four (4), approved by the Board in 2012 to allow for construction, operation and closure of a non-hazardous landfill facility approximately at N63° 02 03.8, W 92° 13 10.0.
- Currently a recycling facility is in operation at N 63° 01' 24.5", W 92° 10' 53.7" which contributes to reducing the sites overall waste production.
- Materials such as paint cans, equipment parts, oily and greasy metal products are



being stored within the recycling facility. Non-combustible materials such as expanded foam are also being stored at this facility in an old building.

- Approval to operate a landfill was granted but not to establish a "temporary" landfill facility at the recycling location. The Proponent indicated a large quantity of material will be backhauled from the facility this year on sealift. The Proponent shall submit a Plan by March 1st, 2014, detailing best practice operations of the recycling facility as well as site wide compliance with the Plan (e.g.: regular inspections and educating staff). The Licensee is reminded that compliance with this license is solely AEM responsibility therefore deposition of waste by a third party is AEM responsibility.
- The area requires fencing as some of the waste is become windblown.
- Food waste from the kitchen grease trap is being stored in drums at the hazardous waste storage area awaiting backhaul. Some of the drums are open and found without lids; all food waste must be secured as this could be a potential wildlife attractant.

SAMPLE collected burn area leachate (NAD 83- N 63° 01' 24.5", W 92° 10' 53.7")

Drill Waste

- Cuttings from the 2013 on ice drilling program are stored in two central locations. The area is wide spread and rather large.
- The Plan submitted titled "MGP Drilling waste management plan June 2013" will be revised to further discuss the rationale behind the central deposition of drill waste, reclamation, potential environmental effects, and monitoring.
- The practice is a concern to the Inspector. Note: This location is more than thirty-one (31) meters from a natural water body the concern is with freshet, fines could be carried by runoff water to a nearby water body which could cause an adverse affect to the receiving aquatic environment.
- The proponent has implemented a drill inspection program with a formatted reporting form.

Contaminated Soils

- As discussed in the June 5 and 6 inspection, contaminated soils are being secured in the old fuel bladder farm containment berm.
- The Proponent will submit to the NWB a Plan/Amendment with regards to contaminated soils remediation before March 1st, 2014.

Grey water/ Treated sewage

- As requested in the June 5 and 6 inspection, a "Used Water Management Plan" was submitted to the Inspector and NWB.
- The proponent has respected the criteria found under PART D: item thirteen (13) monitoring station MEL-7 since April 16th, 2013
- A grey water outfall pipe from a small hand washing sink in the men's dry requires routing to the STP. This outfall will be rerouted before September 15th, 2013, with a photograph sent to the Inspector of the new routing.

FUEL STORAGE:

Owner/Operator: Agnico Eagle Exploration Ltd.

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: A	Water within Berms: A	Evidence of Leaks: A
Drainage Pipes: A	Pump Station & Catchments Berm: A	
Pipeline Condition: A	Condition of Tanks: A	

Comments:

- Fuel bladders are no longer being utilized
- Contaminated water is being discharged from the old bladder containment berm during the inspection. The contaminated water is treated using an active carbon filter system.
- The proponent shall implement erosion control measures at the water discharge location as per PART C: item seven (7).
- Over turned/ punctured drums of hydrocarbon and contaminated soils are being stored within the old fuel bladder containment berm. The effort to have all hazardous materials within secondary containment is noted though in the future hazardous waste management should be improved including backhaul annually to avoid excessive amounts as noted in the hazardous waste storage area.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: Agnico-Eagle Mines Ltd.	
2	AANDC:	
Signs Posted	SNP: A	Warning: None
Records & Reporting: Annual Report submitted		
Geotechnical Inspection: NI		

General Comments:

- The drilling salt storage area which was noted as an issue in the June 5 and 6 inspections has been reclaimed, with the salt moved to an acceptable location.
- AEM's proposed improvements to the STP discharge location and disinfection system are underway. Since the June 5 and 6 inspection the ozone generator for the ozone



disinfection system has arrived onsite; testing is to begin in the next few weeks.

- Requested documents –fuel quantities, drilling inspection form, Used Water Management Plan and Drilling Waste Management Plan- have been received by the Inspector.
- The "Updated Reclamation and Closure Plan 2010" will need to be revised to include improvements to the site since 2010. These revisions are to be conceptual and included in 2013 annual report. Revisions to this Plan will be submitted to the Board as prescribed in PART I: item four (4).

Non-Compliance of Act or Licence:

All issues identified during this inspection have or will be addressed by the dates as discussed in this report.

Failure to undertake the actions required as described in this inspection report, and to the satisfaction of the Inspector, may result in enforcement action(s) being undertaken pursuant to the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*.

Christine Wilson
Inspector's Name

Stephane Robert
Representative Name, Title

Inspector's Signature

Stephane Robert
Representative Signature

Cc: Erik Allain- Manager Field Operations

Cc: Phyllis Beaulieu – Manager Licensing- Nunavut Water Board

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