

Appendix 70

Meadowbank and Regulators 2019 Regulators Inspection Reports

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CIRNAC Inspection Report - Water License 2AM-WTP1826 April 2019



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Agnico Eagle Mines Limited	Tom THOMSON
License No. / Expiry	Representative's Title
2AM-WTP1826/2026	Environmental coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
April 9 th 2019	Jeremy FRASER
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input checked="" type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other: <input type="checkbox"/> Other:	

SECTION 1	<input type="checkbox"/> Comments (s. 11)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. 11)	<input type="checkbox"/> Action Required (s. 11)
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On April 9th 2019 a Water Licence inspection of the Agnico Eagle Mines Ltd. (AEM) "Whale Tail project" was conducted to ensure compliance with the water licence 2AM-WTP1826. Issued by the Nunavut Water Board (NWB). AEM is authorized to use 240,000m³ during construction and operation and has used 10,428 m³ to date. AEM is also authorized for the use of 10,655,00m³ during mine closure in 2026. During this inspection it was noted that all water ways and standing water was frozen and mostly snow covered making it difficult for the inspector to identify any potential concerns or discrepancies in comparison to approved drawings. Also during discussions with the AEM staff it was mentioned that there will be no mill or processing plant for the material extracted located on the Whale Tail Project area and that all processing and milling will occur at the Meadowbank Mine Site.

Road from Meadowbank to the Whale Tail Project

During the inspection it was noted that the road is cleared daily or as needed by the AEM road maintenance staff. Bridges along the road appeared to be in good order with no sediment deposits to the water course below. Culverts along the road were mostly snow covered and when questioned regarding the clearing of the culverts the AEM representative Tom informed the inspectors that AEM only clears culverts when required and when water flow is interrupted. No concerns were found regarding the road and water management structures along the road.

Raw water Intake Facility

This facility was not accessible during this inspection due to snow blocking access to the building. The inspector requested photos (4/9/19) of the flow meter to ensure no unauthorized use of water was occurring. The AEM representative provided the photo as requested by the Inspector (4/18/19). AEM has used 10,428 m³ of water from January and April of this year. No concerns were noted with the water intake facility.

Dewatering Lake Whale Tail North Basin

During this inspection it was noted that AEM has begun the process of dewatering of the whale tail north basin (*see photo 1*). Due to snow and ice it was difficult for the inspector to see what remains within the north basin side of the lake. AEM has pumped 1,045,966m³ of water from the north basin as of March 2019.

Dyke

During the inspection the inspectors drove across the Whale tail dyke. AEM has thermistors and piezometers captured within the dyke for monitoring. The AEM representative Tom THOMSON has provided the inspector with the total amount of water pumped from the Whale Tail North Basin as requested by the inspector (4/13/19). No concerns were identified.

Waste Rock Facility

During this inspection AEM was constructing the Waste Rock Storage Facility. No concerns identified with this construction operation.

Mobile Maintenance shop

During the inspection of this facility it was noted that there was a large metal bin full of debris to be hauled to the landfill. The inspectors quickly inspected the bin to ensure compliance of material approved to be deposited in the landfill and found items such as used oil rags, open and use lube tubs, oil filters, and hazardous waste containers. (*see photos 2 - 4*) These items are considered hazardous waste and must be removed from the landfill bin prior to being hauled to the landfill.

Contractors FGL Laydown

It was noted during this inspection that totes containing what appears to be used oils in some totes, and some totes almost empty are being stored outside with no lids and open to the elements. These containers must be held in secondary containment as required by the license *Part H Item 3*. The Licensee shall perform weekly inspections of petroleum products storage and containment facilities, fuel tanks and connectors, for leaks and settlement and shall keep a written log of inspections to be made available to an Inspector upon request. More frequent inspections may be requested by an Inspector.

Underground Laydown Area

During this inspection it was noted that drill rigs were running within the footprint of the AEM Whale Tail Project Area. The AEM representative Tom THOMSON told the inspectors that some material (course gravel) was used to level an area for the drill rigs to be positioned on. There were no concerns identified with this operation.



SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
<ul style="list-style-type: none"> The Inspector is requesting that AEM ensure all hazardous material be held in secondary containment as required by the licence <i>Part H Item 3</i>. The Inspector is requesting that AEM remove all unauthorized items/ material from the landfill bin as these items are considered hazardous material. As required by the licence <i>Part F Item 16</i> 			

Licensee or Representative	Inspector's Name Jeremy FRASER
Signature	Signature
Date	Date

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
	Sony Cyber-shot	Jeremy FRASER	
Photo Log # 1	Location (Whale Tail north basin)		
Photo #1	N	W	
Description: Whale Tail Lake North Basin			



Photo Log # 2

Location (NAD 83 DD MM SS.SS)

Photo #2

N

W



Description: Oil saturated material within metal bin marked for landfill

Photo Log # 3

Location (NAD 83 DD MM SS.SS)

Photo #3

N

W



Description: Lube pail containing, Lube and other material saturated in lubrication also found within metal bin marked for the landfill



Photo Log # 4

Location (NAD 83 DD MM SS.SS)

Photo #4

N

W



Description: Used oil pig rag found within the Metal bin marked for the landfill

CIRNAC Inspection Report - Water Licence 2AM-MEA1526 April 2019



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Agnico Eagle Mines Ltd.	Tom THOMSON
Licence No. / Expiry	Representative's Title
2AM-MEA1525/2025	Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
April 8-9 2019	Jeremy FRASER
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input checked="" type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other: <input type="checkbox"/> Other:	

SECTION 1	<input type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
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On April 8th and 9th 2019 a Water License inspection of the Agnico Eagle Mines Ltd (AEM) Project "Meadowbank" Water License Number 2AM-MEA1525 was conducted. The Meadowbank Mines Site is located 100km Northwest of Baker Lake and is currently authorized to use 9,120,000m³ of water annually including the dewatering of a lake (as of March AEM has drained 1,045,966m³ from Whale Tail North). The Meadowbank Mine Site is reaching the end of mine life cycle and will be entering closure in the coming years; however, the processing plant and pits will remain open to be used as the processing plant and tailings disposal area for the Whale Tail and Amaruq projects and associated mining activities. During the course of this water licence inspection the following water and waste management structures were inspected to ensure compliance with the Water Licence.

- Road from Baker Lake to Meadowbank Mine site
- Water Intake Facility
- Fuel Storage Facility
- Refueling Station
- Waste Oil Filtration Building
- FGL contractors area
- Warehouse Laydown Area
- Central Dyke
- Land Farm
- Landfill
- Laydown areas for machinery/Underground support laydown
- Tailings Storage Facility
- Hazardous Material Storage Area
- Vault Maintenance Shop

On April 8th at approximately 1315hrs the inspectors Jeremy FRASER and Jonathan MESHER met with Tom THOMSON, Environmental Coordinator with Agnico Eagle Mines Ltd. And proceeded to drive from Baker Lake to the Meadowbank Mine Site via the All Weather Road.

All Weather Mine Access Road:

During the time of this inspection the course of the road was apparent and clearly marked with delineators however it was difficult to determine where the edge of the road was due to snow cover. Bridges along the road appeared to be in good order with no apparent sediment deposits to the water course below. Culverts must be cleared as needed as AEM prepares for freshet.

Water intake Facility:

The water intake facility is a floating barge on third portage lake (*see photo#1*). The licensee is authorized to use 9,120,000 m³ annually and is as of April 8th 2019 AEM has used 519,868m³. The Inspectors noted that there was no flow meters installed within the water intake facility however when questioned the AEM staff said that the water is drawn to the mill and the volume is accounted for at this point. The AEM representative was able to provide the total amount of water drawn to the mill to the inspector upon request. No concerns were noted with this facility.

Fuel Storage Facility/tank farm:

During the inspection of the facility the Inspectors were unable to identify any potential discrepancies with the construction drawings due to snow cover. It appears that snow and ice is being contained within the facility with no visible sign of free product. When questioned about this facility and the discharge of the water captured within the berm, AEM representative told the Inspectors that the water is tested to ensure it meets criteria set by the licence and released to the discharge location after the ten (10) day notice is given to the Inspector.

Refueling Station:

The refueling station is situated parallel to the tank farm. This facility is not lined; the inspectors noted a tote of windshield washer fluid placed on top of a stand for gravity feeding. The tote is within secondary containment however, there is evidence that the fluid is still leaking onto the ground there was also another tote located behind the washer fluid not within containment (*see photo#2*). The inspector is advising that AEM clean up the spilled material <100L prior to the next site inspection.



Waste Oil Filtration building:

During the inspection of the AEM site the Inspectors came across the Waste Oil Filtration Building. Within this building AEM is running a waste oil filtration plant to filter and remove debris from used oil to reuse in heating units and other machinery as AEM sees fit. The inspectors noted that the filtered oil is then held in a tote and put outside (*see photo#3*). The Inspectors also noted that though temporary, when oil or any other hazardous material is being stored in a way that may enter the environment that all hazardous material must be stored in secondary containment as required by applicable standards and acceptable industry practice.

FGL Contractors Area:

The inspectors visited the FGL contractor's area. This area appears to be in good order however the Inspectors noted oil stains under multiple heavy equipment vehicles.

Warehouse Laydown Area:

During inspection of this Laydown Area it was noted that a sea can that has been significantly damaged which contains several totes of diesel exhaust conditioning fluid. (*See photo#4*). The totes have not been damaged; however, the damaged sea can is no longer acting as secondary containment for the fluid in the totes. The Inspector has advised AEM Environmental staff that the totes must be moved indefinitely.

Central Dyke:

During the course of this inspection the Inspectors had been advised that the Central Dyke is actively leaking from the Tailings Storage Facility (TSF) into a ditch between the east bound road leading to the Vault pit and the Central Dyke (*see photo#5*). AEM is also controlling the water level within the ditch by way of pumping the water back into the TSF. Currently AEM has pumped 183,072m³ of water that has seeped through the dyke back into the TSF.

The Central dyke has been leaking since tailings deposition started in the south cell, in November 2014. AEM conducted daily internal inspections of the downstream toe of the central dyke as part of the Geotechnical inspection program. This is when a small amount of water was discovered against the downstream toe of the central dyke, which was contained between the central dyke and the west road. AEM is reporting that the seepage is within the footprint of the mine and away from the receiving environment.

AEM has reported that there are two (2) main seepages identified, the primary pathway is located at Sta. 0+800 and the secondary pathway is located at Sta. 0+600. AEM has also provided interim plans to control the seepage by maintaining high surveillance frequency and ensuring instrumentation and site observation is upheld, by ensuring they have adequate pumps to maintain pumping capacity in case of sudden seepage increase, and revising the AEM Tailings and Water Management Strategy to minimize the amount of water stored in the South Cell while maximizing tailings coverage against the Central Dyke and saddle dam AEM is considering pumping the seepage into the pit instead of cycling the water back into the south cell to decrease and minimize water in the Tailings Storage Facility (TSF).

AEM considers the Seepage from the Central Dyke to be under control as AEM has the pumping capacity to deal with the seepage flow rate. AEM reports that the integrity of the infrastructure has not been compromised and no tailings have been found outside the perimeter of the South Cell TSF.

AEM has also assembled a "Meadowbank Dike Review Board" which gathers once a year. AEM conducts internal monitoring including visual inspections and data review, conducts monthly inspections and compiles data against the central dyke to ensure flow paths and integrity of the dyke is not compromised, and holds an annual geotechnical inspection completed by an external geotechnical engineer. Water within the ditch is sampled and a flow meter has been installed to account for all water pumped back into the South Cell of the TSF.

The seepage will continue to be cycled back into the TSF until closure of the South Cell. Once the South Cell is closed it will no longer contain water and the seepage will stop as showed by modeling.

Landfarm:

Due to snow cover it was difficult for the Inspectors to differentiate the land farm from the surrounding environment. The Inspectors were advised that the facility is not lined however the facility is situated on bedrock and is naturally flowing towards the TSF. There were no concerns noted with this facility.

Landfill:

During the inspection of this facility the Inspectors noted unauthorized debris including but not limited to used oil rags, AA batteries, and a miniature insta-berm saturated in what appears to be engine oil (*see photo#6&7*) with in the Landfill. The Inspector is requesting that AEM remove these items from the Landfill as these items would be considered to be hazardous waste.

Tailings Storage Facility (TSF):

During this inspection the Inspectors toured the entire perimeter of the TSF. AEM is depositing the tailings in such a way to direct water within the TSF to the opposite end of the TSF to gain easier access to use reclaim water as directed by the water license. To date AEM has used 127,410m³ of reclaim water. There were no other concerns noted with this facility.

Hazardous Material Area:

During the inspection it was noted that sea cans containing hazardous material such as oils, lubes and other hydrocarbons were being left open. The AEM representative Tom Thomson informed the inspectors that this was not best practice for the day-to-day activities and instructed the responsible parties to ensure the sea cans containing the hazardous material remain closed when not in use. No other concerns noted regarding this facility.



Vault Maintenance Shop:

This maintenance shop is located between the Meadowbank and Vault pit. This area is used as a parking lot for heavy equipment, lay down for maintenance vehicles and material. During the inspection the inspectors noted a windshield washer fluid tote raised off the ground for easy access to fill equipment. This tote is within secondary containment but it also has some fluid that leaked on to the ground (see photo#8). The inspectors noted that some fluid is dripping from the heavy equipment vehicles onto the ground throughout the parking area of this facility. It is recommended that this fluid be cleaned up prior to freshet to ensure no unauthorized deposits of waste spread to the surrounding environment.

SECTION 2 Comments Non-Compliance with Act or Licence Action Required

- The inspector is requesting that AEM remediate all spills identified during the course of this inspection. As these are concerns regarding due diligence and the handling of hazardous material.
- The inspector is requesting that AEM perform weekly inspection of all Hazardous material containers held on the AEM property to ensure no leaks and settlement and keep a log of written inspection and made available to the inspector upon request. As per *Part H Item 4* of the Water License
- The inspector is requesting that AEM place all fuel and chemicals within adequate secondary containment as required by the license *Part H Item 3*.
- The inspector is requesting that AEM remove all unauthorized material with in the Landfill as these are considered to be hazardous waste. As per the Water License *Part F Item 16*.
- The inspector is requesting that AEM and all contractors on site complete daily inspections of vehicles at all laydowns and ensure drip trays or suitable form of secondary or spill containment is in place as per the Nunavut Water Board approved spill contingency plan.

Licensee or Representative	Inspector's Name
	Jeremy FRASER
Signature	Signature
Date	Date

Office Use Only: Follow-up report to be issued by Inspector Yes No

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



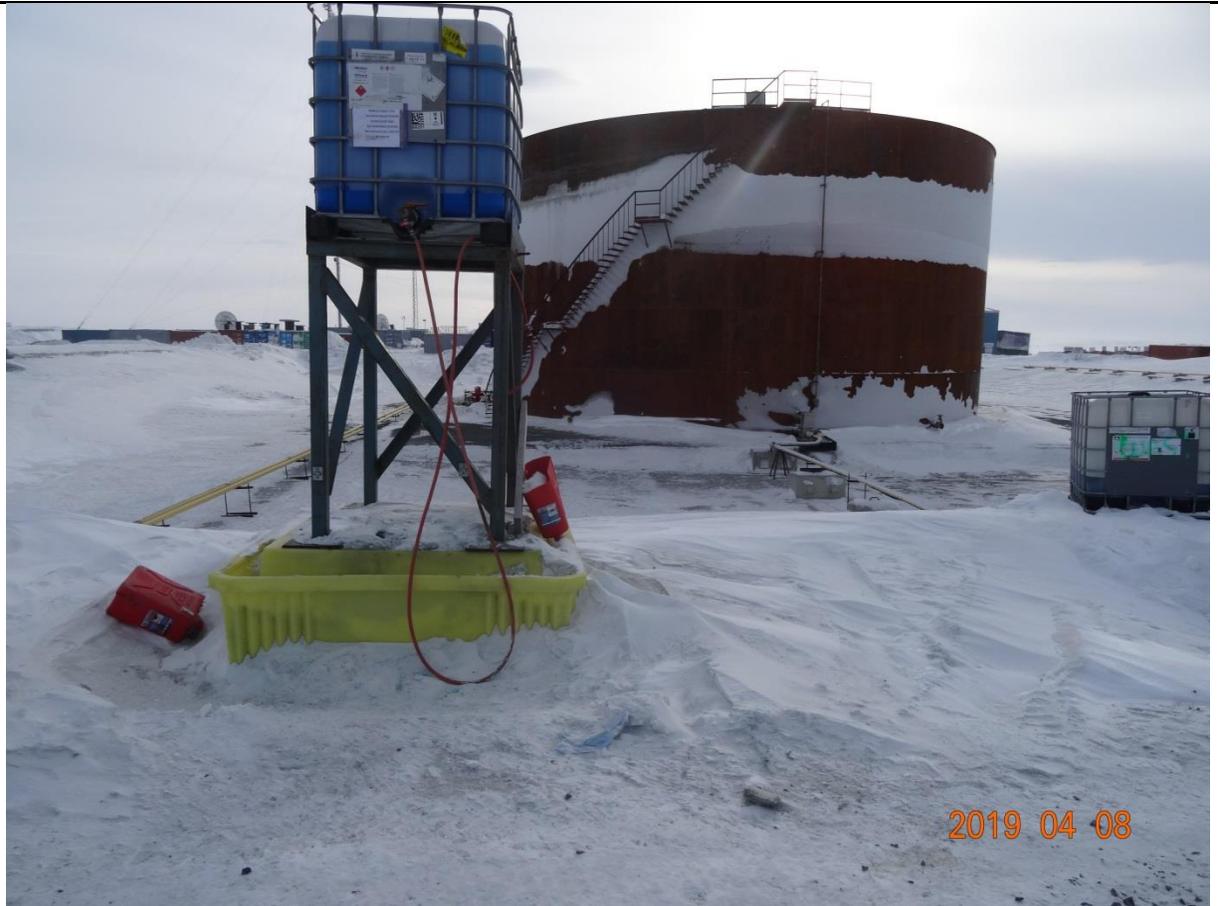
PHOTO LOG

Date:	Camera	Inspector	Authorization
04/09/2019	Sony Cyber-shot	Jeremy FRASER	2AM-MEA1525
Photo Log # 1		Location (NAD 83 DD MM SS.SS)	
Photo #1		N	W



Description: Fresh Water Intake Facility on Third Portage Lake

Photo Log # 2	Location (NAD 83 DD MM SS.SS)
Photo #2	N W



Description: Raised windshield washer fluid and blue snow sitting in front of the tote. Second tote not within secondary containment located behind windshield washer fluid.



Photo Log # 3

Location (NAD 83 DD MM SS.SS)

Photo #3

N

W



Description: Totes not in secondary containment located outside of the Waste Oil Filtration Facility

Photo Log # 4

Location (NAD 83 DD MM SS.SS)

Photo #4

N

W



Description: AEM representative Tom THOMSON and CIRNAC Inspector Jonathan MESHER look at the damaged sea can located at the Warehouse Laydown Area.



Photo Log # 5

Location (NAD 83 DD MM SS.SS)

Photo #5

N

W



Description: Central Dyke is seen here on the left side of the photo. The ditch containing the seeped water is directly behind the pump house shipping containers.

Photo Log # 6

Location (NAD 83 DD MM SS.SS)

Photo #6

N

W



Description: Oil absorbent pads and used oil rags found within the Landfill



Photo Log # 7

Location (NAD 83 DD MM SS.SS)

Photo #7

N

W



Description: insta-berm saturated in oil within the landfill

Photo Log # 8

Location (NAD 83 DD MM SS.SS)

Photo #8

N

W



Description: Vault maintenance shop. Raised windshield washer fluid in secondary containment however, the fluid is still managing to travel outside of containment.



Photo Log # 9

Location (NAD 83 DD MM SS.SS)

Photo #9

N

W



Description: Stained snow under heavy equipment

Photo Log # 10

Location (NAD 83 DD MM SS.SS)

Photo #10

N

W



Description: Stained snow under heavy equipment

**CIRNAC Inspection Report – Crown Lease 66A/8-71, 66A/8-72 April
2019**



Original
 Follow-Up Report

CROWN LANDS: SURFACE LEASE INSPECTION FORM

Permittee	Representative
Agnico Eagle Mines Limited (AEM)	Tom THOMSON
Lease No. / Expiry	Representative's Title
66A/8-71, 66A/8-72	Environmental Coordinator
Other Authorizations	Land / Other Authorizations
66H/8-01	66H/8-02
Date of Inspection	Inspector
April 8-9 2019	Jeremy FRASER
Activities Inspected	
<input type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input type="checkbox"/> Fuel Storage <input checked="" type="checkbox"/> Roads/hauling <input type="checkbox"/> :Other Quarries <input type="checkbox"/> Other:	

SECTION 1	<input checked="" type="checkbox"/> Comments (s.1)	<input type="checkbox"/> Non-Compliance with Lease, Act or Regs (s.2)	<input type="checkbox"/> Action Required (s.3)
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On April 8-9th 2019 a Crown Land Use inspection was conducted on the Crown Land Leases mentioned above. An inspection of the road between Baker Lake and Meadowbank mine site including all parcels of land authorized for as borrow/quarry areas, and between the Meadowbank mine site and the Amaruq Exploration Project, including all borrow/quarry areas.

It was noted that most of the areas inspected were snow covered during the time of the Inspection.

66A/8-71-2

This Lease was issued on 01-01-2007 and expires on 31-12-2021

All parcels of land from the Hamlet of Baker Lake in Nunavut to Third Portage Lake in Nunavut constituting said right of way, containing 183 hectares more or less,

During the inspection of the All Weather Access Road, it was noted that the road was clearly marked with delineators however; it was difficult to identify the edge of the road due to significant snow cover during the time of the inspection. The road is maintained by the AEM road staff as necessary and to the satisfaction of the Minister. Culverts along the road during the time of the inspection were difficult to see due to snow cover. When questioned about clearing of the culverts, the AEM representative Tom THOMSON told the inspectors that the culverts are cleared as necessary during freshet and high water flows. Bridges along the road appear to be in good order and to the satisfaction of the minister. The inspector noted little to no sediment deposited to the water course below.

There were no concerns regarding the All Weather Access Road under Lease 66A/8-71-2.

66A/8-72-5

This Lease was issued on 01-01-2017 and expires on 31-12-2027

During the inspection of the All Weather Access Road from Baker Lake to the Meadowbank Mine Site the Inspector stopped at all parcels of land authorized for use as borrow/quarrying areas by the Lease. In total, there are fifteen (15) borrowing/ quarry areas all of which were snow covered during the time of the inspection aside from parcel "A". This parcel measures approximately 3.06 Hectares has been cleared of snow and is acting as a laydown for AEM road maintenance vehicles, a light plant and a small portable fuel tank.

There were no concerns with the above mentioned Lease 66A/8-72-5.

66H/8-01-1

This Lease was issued on 01-01-2016 and expires on 31-12-2025

All parcels of land located between the Meadowbank Gold Mine and the Amaruq exploration project, following the All Weather Access Road, in Quad 66H, in Nunavut, containing 332.7 Hectares more or less.

All parcels of land authorized as borrowing/quarrying areas within the Lease 66H/8-01-1 were, during the time of the inspection, snow covered.

There were no concerns identified during the course of this inspection.

66H/8-02-1

This Lease was issued on 01-01-2016 and expires on 01-01-2021

An Access Road, comprising of all those parcels of lands between the Meadowbank Mine Site and the Amaruq exploration project, situated on Crown Land containing an area of 129.21 Hectares more or less in Quad 066H in Nunavut.

During the course of this inspection of crown land between the Meadowbank Mine Site and the Amaruq



exploration project the inspectors noted that the road is actively being cleared by the AEM road maintenance staff. The All Weather Access Road was clearly marked with delineators and appeared to be in the satisfaction of the Minister. The edges of the road were difficult to identify due to snow cover. Bridges along the road appeared to be in good order with little to no sediment deposited to the water course below. Culverts along the road are being cleared as necessary and during times of predicted high water flows such as freshet.

There were no concerns with the used of Crown Land during this inspection.

SECTION 2 Comments Non-Compliance with Lease, Act or Regs Action Required

Click here to enter text.

SECTION 3 Comments Non-Compliance with Lease, Act or Regs Action Required

Click here to enter text.

Licensee or Representative	Inspector's Name
Agnico Eagle Mines Limited – Tom THOMSON	Jeremy FRASER
Signature	Signature
Date	Date

Office Use Only: Follow-up report to be issued by Inspector Yes No

CIRNAC Inspection Report - Water Licence 2AM-WTP1826 June 2019



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Agnico Eagle Mines Limited	Martin Archambault
Licence No. / Expiry	Representative's Title
2AM-WTP1826	Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
June 15 2019	
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other: <input type="checkbox"/> Other:	

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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On June 14th 2019 a Water Licence Inspection was conducted on the Agnico Eagle Mines Ltd. (AEM) Whale Tail project. This Inspection was to ensure compliance with the water licence 2AM-WTP1826 and the Acts; Nunavut Planning and Project Assessment Act (NUPPA), Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA), and Arctic Waters Pollution Prevention Act (AWPPA).

Observations

The following Waste and Water Management facilities were inspected through the course of this inspection.

- Water Intake Facility
- Waste Rock Storage Facility
- Whale Tail Dyke
- Mammoth Dyke
- Whale Tail Maintenance Shop
- Water Treatment Plant
- The West Bay Well
- Whale Fuel tank farm

Water Intake Facility

AEM is actively withdrawing water from Nemo Lake as approved by the Nunavut Water Board. It appears to be in good order and operating as intended however, it was noted that there was no signage indicating the location name. As per the Water License 2AM-WTP1826 "Part B Item 10 The Licensee shall post signs in the appropriate areas to inform the public of the location of the Water Supply Facilities and the Waste Disposal Facilities. All signs must be in English, Inuktitut and French and shall be located and maintained to the satisfaction of an Inspector". The fuel tank for the water intake facility backup generator is in secondary containment however the catchment is full of water with visible sheen and oils (see photo 1 & 2). The inspector notified AEM that they are to address this concern and dispose of the waste according to the provisions within the Water license.

Waste Rock Storage Facility

The Waste Rock Storage Facility (WRSF) is in operation. The waste rock within the facility appears to be segregated into Potentially Acid Generating (PAG) and Non-Potentially Acid Generating (Non PAG) material. Segregation of the waste rock is predetermined by AEM staff. No concerns related to this activity. (see photo 3)

Waste Rock Storage Facility Dyke

This Water Management Structure appears to be operating as intended. The inspector was informed that water contained within this facility is planned to be directed to the Water Treatment Plant (WTP) for treatment and then directed to Mammoth Lake for the final deposition. AEM is to ensure all water meets the licence discharge requirements prior to releasing into the environment.

Whale Tail Dyke

During the inspection of this Structure it was observed that it appears to be built in two steps with a wider base then the top portion of the dyke. The dyke appears to be working as intended and no signs of seepage were observed. No concerns regarding this water management structure.

Mammoth Dyke

During this inspection it was noted that AEM is actively pumping water from the east side of the Mammoth Dyke to Quarry one (1) to ensure the frozen core of the dyke remains frozen. The water pumped to Quarry 1 is then pumped to the Attenuation Pond to settle sediments then again pumped to the WTP and finally discharged to Mammoth Lake after water samples meet discharge requirements. This structure appears to be operating as intended, no sign of seepage was observed.

Whale Tail Maintenance Shop

Concerns regarding this facility in the previous inspection report dated April 9th 2019 have been addressed. No concerns regarding the deposit of waste related this facility was identified.



Water Treatment Plant

During the inspection of this facility AEM employee Martin Archambault notified the inspector of the facility and that it is currently not in commission. AEM has run a test of the facility and found some minor issues regarding the programming of the equipment. No concerns were identified with this facility.

West Bay Well

The West Bay Well location is northeast of the whale tail dewatering activity. A small building was constructed around the well and a barrel of glycol was found within the building in close proximity of the well. Concerns with ground water contamination are present. The inspector is requesting AEM remove this barrel to ensure no unauthorized spills occur regarding this well.

Whale Tail Fuel Tank Farm

During this inspection period AEM was in the process of constructing the whale tail fuel tank facility. No concerns related to this activity.

SECTION 2

Comments

Non-Compliance with Act or Licence

Action Required

- AEM is to ensure signs are posted at all appropriate areas as stated in the Water Licence 2AM-WTP1826 Part B Item 10 *“The Licensee shall post signs in the appropriate areas to inform the public of the location of the Water Supply Facilities and the Waste Disposal Facilities. All signs must be in English, Inuktitut and French and shall be located and maintained to the satisfaction of an Inspector”*

Licensee or Representative	Inspector's Name
	Jeremy FRASER
Signature	Signature
Date	Date
	July 26 th 2019

Office Use Only: Follow-up report to be issued by Inspector Yes No

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



PHOTO LOG

Date	Camera	Inspector	Authorization
June 14 2019	Sony Cyber-shot	Jeremy FRASER	2AM-WTP1826

Photo Log # 1	Location (NAD 83 DD MM SS.SS)
Photo #1	N W



Description: Nemo Lake Fresh Water Intake and backup generator building. White fuel tank in front of the backup gen set.

Photo Log # 2	Location (NAD 83 DD MM SS.SS)
Photo #2	N W



Description: white substance found in water in the secondary containment. Containment catchment appears to be at full capacity.



Photo Log # 3

Location (NAD 83 DD MM SS.SS)

Photo #3

N

W



Description: Waste Rock Storage Facility

CIRNAC Inspection Report - Water Licence 2AM-MEA1526 June 2019



WATER LICENCE INSPECTION FORM

Original
 Follow-Up Report

Licensee	Licensee Representative
Agnico Eagle Mines Limited (AEM)	Martin Archambault
Licence No. / Expiry	Representative's Title
2AM-MEA1526	Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
June 14 th -17 th 2019	Jeremy Fraser
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Drilling <input checked="" type="checkbox"/> Mining <input checked="" type="checkbox"/> Construction <input checked="" type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input type="checkbox"/> Roads/Hauling <input type="checkbox"/> Other: <input type="checkbox"/> Other:	

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

On June 14th 2019 a Water Licence Inspection was conducted on the Agnico Eagle Mines Ltd. (AEM) Meadowbank project. This Inspection was to ensure compliance with the water licence 2AM-MEA1526 and the Acts; Nunavut Planning and Project Assessment Act (NUPPA), Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA), and Arctic Waters Pollution Prevention Act (AWPPA).

Observations

The following Water and Waste management facilities were inspected during the course of this inspection.

- Fresh Water Intake Barge
- Hazardous Waste Storage Area
- FGL Contractors Laydown
- Refueling Station
- Cyanide Storage Pad
- East Dyke
- Central Dyke
- Storm Water Dyke
- Tailings Storage Facility
- Landfarm
- Landfill
- Waste Rock Stockpile
- Goose Pit Deposition
- Baker Lake AEM Tank Farm

Fresh Water intake Barge

AEM actively uses water approved by the Nunavut Water Board (NWB) from Third Portage Lake and is currently below the authorized usage amount of 9,120,000m³. To date AEM has reported using 1,039,445m³ of fresh water for mine related activities from authorized sources and 296,337m³ of reclaimed water from the tailings facility. There were no concerns identified with this use of water.

Hazardous Waste Storage Area

AEM is currently segregating all Hazardous Waste into multiple sea cans separating items such as batteries, waste oils, used rags etc. and shipping generated waste off site as a requirement of the license *Part F Item 16 & 17*. (see photo 1,2 &3). AEM has addressed concerns regarding this area identified in the previous inspection dated April 8th 2019.

FGL Contractors Laydown

It was noted that some minor concerns regarding the disposal of waste generated within the contractor's laydown (see photo 4). The inspector identified used lubrication pales and used oil rags have been disposed of in a garbage bin not marked for hazardous material. When the inspector questioned the final destination of the garbage bin the inspector was informed it was to be put in the landfill. The inspector verbally ordered AEM staff to remove all hazardous material prior to landfill disposal.

Refueling Station/ Single Tank Farm

AEM has addressed concerns from the previous inspection in regards to this facility. Adequate secondary containment has been put in place to capture any residual liquids within this facility (see photo 5). The inspector noted some water within the single tank farm (see photo 6); AEM has sampled the water and results indicate the water meets discharge requirements set by the NWB regarding the Licence 2AM-MEA1526 *Part F Item 9*. No concerns regarding this facility.

Cyanide Storage Pad

During the inspection of this facility it was noted that some pooling of water in what appears to be a low spot beneath a sea can on the pad. The sea can was labelled "super Heavy" and locked at this time; the inspector was unable to determine what is stored in the sea can (see photo 7). After further review of information provided by AEM it was determined that the container is housing dry goods only and no chemical products. No concerns were identified



East Dyke

It was noted that the East Dyke appears to be operating as intended. AEM is continuing monitoring occurring with data collecting instrumentation including temperature sensors and piezometers installed within the dyke (see photo 8). There were no concerns identified regarding this structure.

Central Dyke

This Water Management Structure is actively seeping into a ditch and is projected to do so until the final closure of the South Cell of the TSF. AEM is actively monitoring the seepage and pumping water that has passed through the Dyke and directing it to the In-pit deposition location at Goose Pit.

Storm Water Dyke

This water management structure divides the Tailings Storage Facility into 2 cells, North and South cells. Agnico Eagle representative Martin Archambault informed the inspector of cracks that have formed in the Storm Water Dyke. Currently Agnico Eagle fills the cracks with bentonite which absorbs the water from the surrounding material causing it to expand and form an impermeable seal. No concerns identified.

Tailings Storage Facility (TSF)

The TSF is divided into two (2) parcels, the north and south cells divided by the Storm water dyke. AEM has started the reclamation process of the North Cell and has begun capping and installing and monitoring equipment as a requirement of the licence for closure and reclamation of this facility Part J Item 7. The South Cell is currently operational and AEM is actively depositing tailing into this facility. AEM has approval from the NWB for deposition of tailings into Goose pit however, AEM has not yet started.

Landfarm

During the inspection of this facility it was noted that it is not lined however AEM designed this facility such that the bedrock is impermeable to leaching. The bedrock is a part of the facility ensuring water that may enter the landfarm site and all runoff is directed to the TSF. This is authorized through the Water Licence held by AEM and also under Metal and Diamond Mining Effluent Regulations (MDMER). There were no concerns identified regarding this facility.

Landfill

AEM has been approved to deposit domestic waste on the Waste Rock Pile at the Meadowbank site. It was noted all concerns regarding the use of this facility in the previous inspection have been addressed by AEM by way removing all forms of hazardous waste such as batteries and used oil rags and lubricants. There were no other concerns related to this facility identified.

Waste Rock Stockpile

The Waste Rock Stockpile (WRSP) appears to be in good order. AEM has installed monitoring stations throughout the WRSP to ensure compliance is met and monitoring is occurring daily and recorded to ensure the provisions in the Licence 2AM-MEA1526 regarding this facility are met. There were no concerns identified with this facility.

Goose In-pit Deposition

During this inspection AEM was in the progress of using the in-pit disposal authorization to deposit water that was seeping through the Central Dyke into a ditch and pumping it to the Goose Pit (see photos 9). There were no concerns regarding the deposition of waste at this time.

Baker Lake Tank Farm

During the inspection the inspector noted approximately 300m³ of water within the berms. The tanks appeared to be mostly empty with one mostly full remaining tank of diesel (see photo 10 & 11), AEM has taken samples of the water and sent the collected samples to the laboratory in Winnipeg. Once Results return indicating the water meets the criteria of the licence and AEM is planning to discharge. There were no other concerns identified with this facility.

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
------------------	--	--	--

Part F Item 14 The Licensee is authorized to dispose of and contain all-non-hazardous solid Wastes at the on-site Landfills in accordance with the approved Landfill Design and Management Plan, dated March 2013, or as otherwise approved by the Board in writing.

Part F Item 16 The Licensee shall remove from the Project site, all solid and liquid hazardous Wastes generated through the course of the Operation, for disposal at an approved hazardous waste disposal facility.

- The inspector is requesting that AEM remove all hazardous material from garbage bins prior to being deposited to the Landfill.

Licensee or Representative	Inspector's Name
	Jeremy FRASER
Signature	Signature
Date	Date
	Sept 11 2019

Office Use Only: Follow-up report to be issued by Inspector Yes No



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

PHOTO LOG

Date	Camera	Inspector	Authorization
June 14 2019	Sony Cyber-shot	Jeremy FRASER	2AM-MEA1526
Photo Log # 1		Location (NAD 83 DD MM SS.SS)	
Photo #1		N	W



Description: hazardous waste storage area



Photo Log # 2

Location (NAD 83 DD MM SS.SS)

Photo #2

N

W



Description: battery bins within hazardous waste containers

Photo Log # 3

Location (NAD 83 DD MM SS.SS)

Photo #3

N

W



Description: hazardous waste material storage area



Photo Log # 4

Location (NAD 83 DD MM SS.SS)

Photo #4

N

W



2019 06 14

Description: used oil rags and oily bucket found within garbage bins on FGL contractors site

Photo Log # 5

Location (NAD 83 DD MM SS.SS)

Photo #5

N

W



2019 06 16

Description: adequate secondary containment installed at fuelling station



Photo Log #6

Location (NAD 83 DD MM SS.SS)

Photo #6

N

W



Description: single tank farm at Meadowbank site

Photo Log #7

Location (NAD 83 DD MM SS.SS)

Photo #7

N

W



Description: Sea cans in water AEM addressed concerns of contents



Photo Log #8

Location (NAD 83 DD MM SS.SS)

Photo #8

N

W



Description: Meadowbank East Dyke; instrument housing in the background

Photo Log #9

Location (NAD 83 DD MM SS.SS)

Photo #9

N

W



Description: In-Pit Deposition



Photo Log #10

Location (NAD 83 DD MM SS.SS)

Photo #10

N

W



Description: AEM Baker Lake Fuel Tank Farm

Photo Log # 11

Location (NAD 83 DD MM SS.SS)

Photo #11

N

W



Description: AEM Baker Lake Fuel Tank Farm

**NIRB Site Visit Report - Meadowbank (NIRB File No. 03MN107) and
Whale Tail (NIRB File No. 16MN056) August 2019**



Nunavut Impact Review Board 2019

Site Visit Report

Meadowbank Gold Project (NIRB File No. 03MN107) and *Whale Tail Pit Project* (NIRB File No. 16MN056)

Agnico Eagle Mines Ltd.



October 2019

Full Report Title: 2019 Site Visit Report for the Nunavut Impact Review Board’s Monitoring of Agnico Eagle Mines Ltd.’s *Meadowbank Gold Project* (NIRB File No. 03MN107) and *Whale Tail Pit Project* (NIRB File No. 16MN056)

Project: Meadowbank Gold Project and Whale Tail Pit Project
Project Location: Kivalliq Region, Nunavut
Land Tenure: Inuit Owned Lands and Crown lands

Project Owner: Agnico Eagle Mines Ltd.
Meadowbank Division
P.O. Box 540
Baker Lake, NU
X0C 0A0

Proponent Contact: Robin Allard, General Supervisor Environment

Telephone: (819) 759-3555, ext. 6744

Visit conducted by: Sophia Granchinho, Manager, Impact Assessment
Phone: (867) 857-4829; email: sgranchinho@nirb.ca

Erin Reimer, Technical Advisor I
Phone: (867) 857-4566; ereimer@nirb.ca

Site visit date: August 22-24, 2019
Last site visit: August 14-16, 2018

Report prepared by: Sophia Granchinho, Manager, Impact Assessment

Photos by: Sophia Granchinho and Erin Reimer

Cover photos:

- 1) Portage pit laydown area at Meadowbank site
- 2) Landscape along the all-weather access road
- 3) Vault pit at Meadowbank site
- 4) Baker Lake marshalling facility
- 5) Meadowbank mine site area (photo from 2017)
- 6) Whale Tail pit mine site area
- 7) Caribou along the haul-road
- 8) North Basin Whale Tail pit
- 9) Landscape along the haul-road

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1 INTRODUCTION

The Nunavut Impact Review Board (NIRB or Board) was established through Articles 10 and 12 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)* and is responsible for post environmental assessment monitoring of a Project in accordance with Part 7 of Article 12 of the *Nunavut Agreement* and s. 135(4) of the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 14 (*NuPPAA*).

This report provides the findings that resulted from the NIRB's site visits of Agnico Eagle Mines Ltd.'s (Agnico Eagle) Meadowbank Gold Mine Project and of the Whale Tail Pit Project that took place between August 22 and August 24, 2019, as well as a summary of the comment and concerns received from community members during the public information session held on August 21, 2019.

1.1 Objective & Purpose of a Public Information Session

Pursuant to the *Nunavut Agreement*, and the Meadowbank Project Certificate No. 004 and the *NuPPAA* and the Whale Tail Pit Project Certificate No. 008, the NIRB monitoring responsibilities include providing periodic updates regarding its Monitoring Program for the communities most affected by Agnico Eagle Mines Ltd.'s (Agnico Eagle) Meadowbank Gold Mine Project (Meadowbank Project) and Whale Tail Pit Project (Whale Tail). These meetings are also to further ensure ongoing awareness of Project-specific terms and conditions and encourage effective participation throughout the Board's monitoring process for both files.

1.2 Objectives & Purpose of Site Visits

The objective of the NIRB's site visit was to determine whether, and to what extent the land or resource use in question, is being carried out within the predetermined Terms and Conditions as set out in the amended Project Certificate as issued for the Meadowbank Project Certificate (NIRB 2018a), in accordance with Section 12.7.2(b) of the *Nunavut Agreement* and the NIRB's Whale Tail Pit Project Certificate (NIRB 2018b), in accordance with s. 135(3)(b) of the *NuPPAA*.

The observations resulting from these site visits shall, wherever possible, be incorporated into the measurement of the relevant effects of both the Meadowbank Gold Mine and the Whale Tail Pit Projects, provide the information necessary for agencies to enforce terms and conditions of land or resource use approvals, and will further be used to assess the accuracy of the predictions contained in the project impact statements in accordance with Section 12.7.2 of the *Nunavut Agreement* and s. 135(3) of the *NuPPAA*.

1.3 Preparations for the Site Visits

In preparation for the site visits, the Monitoring Officer reviewed the following items: the Meadowbank Project Certificate No. 004; the Whale Tail Pit Project Certificate No. 008; previous Site Visit Reports (where relevant); Agnico Eagle's 2018 Meadowbank Gold Mine Annual Report and associated appendices as well as follow-up correspondence relevant to the monitoring of the approved Meadowbank and Whale Tail Projects.

2 PUBLIC INFORMATION MEETINGS

The NIRB hosted an information session which consisted of an evening session at 7:00 pm located at the Baker Lake Community Hall with consecutive translation into Inuktitut.

2.1 Advertisements

The NIRB advertised the meeting through radio, poster, and online through Facebook in Baker Lake both in English and Inuktitut in the month prior to the meeting.

2.2 Meeting Materials

At the public meeting, the following materials were provided by the NIRB:

- The NIRB's PowerPoint presentation (in English and Inuktitut)
- The *Nunavut Agreement* (in English)
- The *NuPPAA* (electronic)
- NIRB Public Guide Brochures (in English and Inuktitut)
- Meadowbank Gold Mine Project Certificate No 004 (in English)
- Whale Tail Pit Project Certificate No. 008 (in English)
- Agnico Eagle's Meadowbank Gold Project and Whale Tail Pit Project 2018 Annual Report (electronic)
- Comment Forms (in English and Inuktitut)

Copies of the above listed consultation materials can be obtained from the NIRB's online public registry at www.nirb.ca.

2.3 Summary of the Public Information Session

The NIRB's information session was open to all members of the public with refreshments and snacks provided. All in attendance, including government, industry representatives and media, were asked to sign in and identify the community or organization they represented. The meeting had a recorded attendance of 17 people.

The NIRB gave a PowerPoint presentation that included discussion of the NIRB process, with a focus on the NIRB's monitoring programs; an update on the Projects, including an overview of the Meadowbank and Whale Tail Project activities and key components; and events and/or issues identified through the project specific monitoring programs. The presentation concluded with a discussion as to how interested parties and community members could participate in the NIRB's processes.

Both written and verbal comments were accepted at the meeting as the public was encouraged to ask questions, and verbal comments were recorded by the NIRB staff. These comments were categorized by NIRB staff into the following categories: additional comments, concerns related to the ongoing development of the Meadowbank and Whale Tail Projects. These comments helped the Board identify items that need to be addressed or considered throughout the NIRB's monitoring program for both of the Projects. Also, during the meeting community members had a general

appreciation of the NIRB's process and noted that they appreciated the NIRB's presence within the community to discuss the current projects.

Aquatic Environment and Wildlife

- Question on fish improvement at the Whale Tail site.
- A community member noted that wildlife, wildlife habitat, and aquatic habitat need to be monitored better to understand the potential impacts from the Projects, especially related to the potential impacts from dust effects.
- A community member asked whether wildlife are still being attracted to the site or creating dens under the buildings around site. The member requested further whether Agnico Eagle has mitigation measures in place to prevent this.

Employment

- A community requested clarification on how many employees at both sites and whether the employees are Agnico Eagle employees or contractors.
- Information requested on how long the Amaruq site/property would be open.

3 MINE SITE VISITS

3.1 Overview of the Meadowbank and Whale Tail Site Visits

The 2019 site visits to the Meadowbank and the Whale Tail projects were conducted by the NIRB's Monitoring Officer for the Meadowbank and Whale Tail projects Ms. Erin Reimer and Ms. Sophia Granchinho (NIRB staff). In the morning of August 22, 2019 NIRB staff were met by Mr. Robin Allard, General Supervisor Environment with Agnico Eagle (Agnico Eagle staff), in the Hamlet of Baker Lake and driven first to the ancillary Project infrastructure that included the Baker Lake bulk fuel storage facility and the marshalling area. Mr. Allard then drove to the Meadowbank mine site stopping at several areas along the all-weather access road (AWAR) to view items as outlined in [Table 1](#). Once at the Meadowbank Mine site, NIRB staff continued the tour visiting areas listed in the same table. During the tour, NIRB staff and Mr. Allard discussed the Meadowbank Project in general and specific items related to the Project Certificate.

Table 1: Meadowbank Site Visit Tour

Baker Lake Marshalling Facility	All-weather access road sites	Meadowbank sites
Environmental emergency seacan	Gatehouse at kilometre 5	Assay laboratory
Lower all-terrain vehicle (ATV) trail	Two quarry sites (5 and 22)	Dust and air quality monitoring station near the assay laboratory
Barge area	One of the two (2) snowmachine crossings (kilometre 10)	Incinerator
Laydown area and marshalling facility	Two (2) of the five (5) dust suppressant locations	Waste and hazardous materials storage area
Fuel tank farm	The dust sampling canisters at kilometre 25	Fuel tank storage area

Baker Lake Marshalling Facility	All-weather access road sites	Meadowbank sites
Temporary laydown area for cyanide storage	Bridge at kilometre 23	Groundwater wells
	Exploration camp staging area	Tailings storage facility (south cell and north cell)
		Central and East Dikes
		Vault Pit Area including: <ul style="list-style-type: none"> ▪ Phaser and BB Phaser Pits, ▪ Waste rock storage facility. ▪ Wally Lake diffuser, ▪ Vault Pit Attenuation Pond,
		Portage Pit E (also known as South Portage Pit)
		Goose Pit Tailings Pit
		Other areas: <ul style="list-style-type: none"> ▪ North Diversion ditch, ▪ Waste rock facility, ▪ Landfill, ▪ Landfarm remediation site, and ▪ Emulsion plant

On August 23, 2019, NIRB staff were met by Mr. Allard and driven along the 65 kilometre (km) haul-road to the Whale Tail site at the Amaruq property. The haul-road was closed to all traffic except essential traffic due to migrating caribou observed between km 150 and km 175 in groupings of various sizes.

During the drive, the tour stopped at several areas as outlined in [Table 2](#) along the Haul-road, and once at the Whale Tail site the NIRB staff viewed the areas outlined in the same table. During the tour, NIRB and Agnico Eagle staff discussed the Whale Tail Project in general and specific items related to the Project Certificate.

Table 2: Whale Tail Site Visit Tour

Haul-road sites	Whale Tail sites
Quarry 10.5	Whale Tail Camp
Snowmachine crossing (kilometre 12)	Portal to underground exploration
Several bridges	Quarry sites
Dust sampling canisters (km 133, 151, 169)	Mammoth Lake
	Dike between North and South Basin
	Whale Tail Lake North Basin
	Waste Rock Storage Facility
	Nemo Freshwater Intake

On the morning of August 24, 2019, the NIRB staff were again met by Mr. Allard to discuss the observations made during the site visits, and further issues related to environmental compliance. Afterwards, Mr. Allard drove the NIRB staff to the Hamlet of Baker Lake.

3.2 Meadowbank Project Site Visit

3.2.1 Meadowbank Project Overview

The Meadowbank Project involves the construction and operation of an open pit gold mine located in the Kivalliq Region of Nunavut, approximately 70 km north of the Hamlet of Baker Lake on Inuit-owned surface lands. Production at the Meadowbank mine site has been extended into 2019 due to an extension of the mine plan at Vault and Phaser pits in 2018, and the Portage Pit in 2018 and 2019 (Agnico Eagle 2019), supplemented from stockpiles in 2018 and 2019. In-pit tailings deposition in Goose Pit commenced mid-2019.

The mine site is comprised of a camp, airstrip, associated mining infrastructure and one (1) active open pit, Portage Pit E. Portage Pit E was being mined with the ultimate phase of Portage Pit being depleted by the end of October 2019. Mining has been completed at Goose Pit (April 2015), Phaser Pit (October 2018), Vault Pit (March 2019), and BB Phaser (June 2019) as the ore was depleted.

In addition to the mining infrastructure and activities, ancillary Project infrastructure is located approximately two (2) km east of the Hamlet of Baker Lake and consists of barge unloading facilities, a laydown storage and marshalling area, a temporary laydown storage area for cyanide, a 60 million litre (ML) fuel tank farm with the fuel tank farm being expanded to 80 ML in 2019, associated interconnecting roads, and a 110 km AWAR from the Hamlet of Baker Lake to the Meadowbank mine site.

Supplies are shipped from locations within Canada via sealift to Baker Lake where they are offloaded at Agnico Eagle's marshalling area and transported to the Meadowbank site via truck along the AWAR. See [Photo 1](#) for an overview photo of the Meadowbank Mine Site. [Figure 1](#) through [Figure 3](#) provide a layout of the Meadowbank Mine Site, the Vault Pit Area, and the marshalling facility near Baker Lake.



Photo 1: Overview of Meadowbank Mine Site

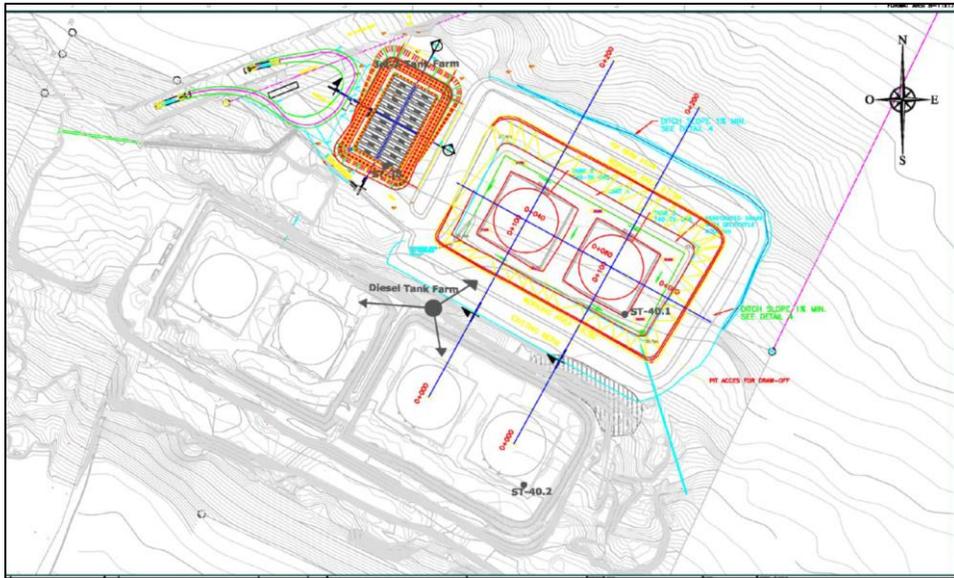


Figure 3: Baker Lake Marshalling Facility (from Agnico Eagle's 2017 Annual Report; Figure 4)

3.2.2 General Observations for Meadowbank Mine Site

The following are general observations made during the site visit and do not pertain specifically to any particular terms or conditions of the Meadowbank Project Certificate:

3.2.2.1 Baker Lake Marshalling Facility

The following observations were made at the Baker Lake Marshalling facility:

- a) The environmental emergency seacan at the barge loading facility contained booms, shovels, absorbent pads, and other miscellaneous spill response equipment (see [Photo 2](#)). At the time of the site visit, a barge was at the Baker Lake dock facility, and offloading equipment and the marshalling facility was very busy with the movement of supplies from the barge (see [Photo 3](#) through [Photo 5](#)).
- b) The lower all-terrain vehicle (ATV) trail that goes through the Baker Lake bulk fuel storage facility/marshalling area was accessible to the community members allowing members to travel to their cabins along the shoreline (see [Photo 6](#)).
- c) Arctic hare were observed at the marshalling facility and within the fuel tank storage facility (see [Photo 7](#)).



Photo 2: Environmental Emergency Seacan at the Baker Lake Marshalling Facility



Photo 3: Barge at Baker Lake Facility



Photo 4: Baker Lake Marshalling Facility



Photo 5: Seacans at the Baker Lake Marshalling Facility



Photo 6: Little bridge to ensure access to ATV trail



Photo 7: Arctic hare near the Baker Lake Facility

3.2.2.2 All-weather private access road

The all-weather access road (AWAR) between the Hamlet of Baker Lake and the Meadowbank site consists of the gate-house at km 5; two (2) snowmachine crossings, one (1) near km 10 and the second near km 98 (previously near km 82); dust monitoring stations at km 11, 25, 50, 69 and 80; quarry sites; and environmental emergency seacans at all bridge crossings. The following observations were made along the AWAR:

- a) Several species of wildlife were observed along the AWAR including geese, sand-hill cranes, Arctic hare, Peregrine Falcon, and siksik (ground squirrel). Agnico Eagle staff stated that caribou, muskox, and wolves were observed occasionally along the AWAR.
- b) At the snowmachine crossings, there were no signs of extreme slopes or rocks along the side of the AWAR (see [Photo 8](#)).
- c) While travelling along the AWAR towards Meadowbank on August 22, the road was not extensively used by Baker Lake community members but was extremely busy with haul trucks traveling from and to the Baker Lake facility (see [Photo 9](#)). On the way back to Baker Lake on August 24, the AWAR much of the traffic consisted of community members.



Photo 8: Snowmachine crossing near km 10



Photo 9: Gatehouse near Baker Lake

- d) As in previous years, remediation has been ongoing at Quarry 22 following storage of contaminated hydrocarbon soil in previous years with the soil/gravel still testing positive for hydrocarbons (see [Photo 10](#)). No remediation work was conducted in 2018 and 2019 due to active Peregrine Falcon nests at this quarry, but plans were in place to continue the remediation work in September 2019.



Photo 10: Quarry 22 along the AWAR

- e) During the site visit, NIRB staff noted that dust suppressants were not applied along the AWAR. Agnico Eagle noted that dust suppressants were still being applied along three (3) critical areas at km 10-12, 24-26, and 48-50, as agreed upon with the Baker Lake Hunters and Trappers Organization as well as two (2) additional sites at km 68-70 and 80-84.

3.2.2.3 Meadowbank mine site

The following observations were made at the mine site:

- a) Active drilling was ongoing at Portage Pit (see [Photo 11](#) and [Photo 12](#)), while mining ended earlier in the year at Vault Pit (see [Photo 13](#) and [Photo 14](#)) and at the Phaser and BB Pits (see [Photo 15](#) and [Photo 16](#)). Mining at the Goose Pit had ended in early 2015 and the pit has been allowed to slowly fill in naturally with water (see [Photo 17](#))
- b) As noted last year, an ice sheet was observed on the walls of the Vault Pit (see [Photo 13](#)) and it continues to be there this year.
- c) During the site visit, tailings were being disposed of into Goose Pit (see [Photo 18](#)) as one of the two (2) in-pit tailings facilities at the time of the site visit.



Photo 11: Portage Pit A



Photo 12: Portage Pit E



Photo 13: Vault Pit – looking east



Photo 14: Vault Pit Waste Rock Pile



Photo 15: Phaser Pit



Photo 16: BB Phaser Pit



Photo 17: Goose Pit – looking south

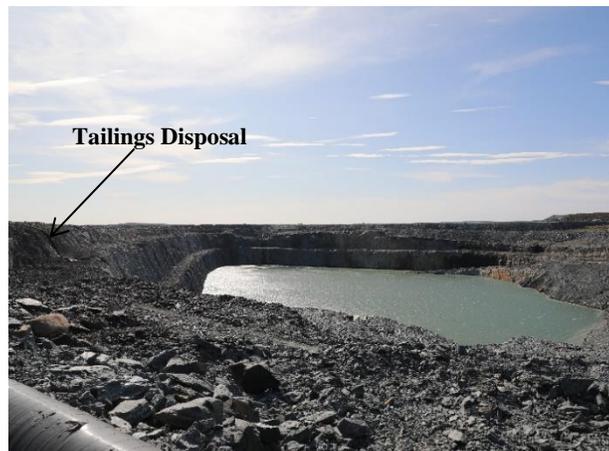


Photo 18: Tailings Disposal at Goose Pit

- d) In 2013, Agnico Eagle noted seepage from the Portage waste rock storage facility with potentially acid generating rock (which has a high sulphur content, heavy metals, and other contaminants) at a location near the south shore of a fish bearing lake (referred to as North Pole 2 or NP-2 lake) (see [Photo 19](#)). Agnico Eagle staff stated during the site visit that monitoring of the seepage is still ongoing during the open water season and that

accumulated water continues to be pumped directly back to the North Cell tailings storage facility. No seepage was observed since the North Cell was raised during the summer of 2016 as the assumption is that the tailings storage facility was built on an old riverbed system and may have seeped through this system.



Photo 19: Portage Waste Rock Facility Runoff

- e) During the site visit, it was observed that the second landfarm constructed in 2017 continues to operate with the addition of on-site nutrients (sewage sludge) to assist in the biodegradation of contaminated hydrocarbon soils (see [Photo 20](#)). The original landfarm, developed in 2013 and located next to the South Cell Tailings Facility was flooded with tailings deposition in 2017.



Photo 20: Landfarm at Meadowbank Mine Site

- f) As per previous NIRB site visits, and during the 2019 site visit that Agnico Eagle continues to segregate and store all domestic, hazardous, and combustible wastes in marked seacans prior to these materials being incinerated or shipped to the appropriate and approved off-site disposal facilities (see [Photo 21](#)).
- g) Agnico Eagle stated that the landfill is frequently inspected by employees to ward off any wildlife that may be present, to ensure wastes are segregated appropriately, and that wastes designated to the incinerator or metal dump do not end up in the landfill (see [Photo 22](#)).



Photo 21: Seacans used for waste segregation and storage area at Meadowbank Mine Site



Photo 22: Landfill at Meadowbank mine site

- h) In 2019 Agnico Eagle started a composting program located at the incinerator building with the compost materials being disposed of at the landfill (see [Photo 23](#)). The composter was installed to reduce the quantity of waste burned by the incinerator.



Photo 23: Compost program at the incinerator building

- i) During the site visit, a caribou was observed near the Vault Pit area (see [Photo 24](#)), while a young Arctic fox was observed at the Meadowbank site (see [Photo 25](#)).



Photo 24: Caribou observed at the Vault Pit area



Photo 25: Young arctic fox at the mine site

3.2.3 Site Observations based on NIRB's Project Certificate No. 004

The following provides a summary of observations made with respect to the relevant terms and conditions related to Project Certificate No. 004. [Appendix A](#) provides a more detailed summary of pertinent terms and conditions of Project Certificate No. 004 relevant to operations of the Meadowbank Mine Site.

3.2.3.1 Water Quality and Waste Management

Condition 8: Groundwater Wells

During the site visit, five (5) groundwater monitoring wells were operational and were the same wells in operation since 2018: MW-08-02, MW-16-01, MW-IPD-01, MW-IPD-07 (see [Photo 26](#)), and MW-IPD-09. The modifications to the wells appear to be working as the wells have been functional for two (2) years.



Photo 26: Groundwater monitoring well MW-IPD-07

Condition 18: Tailings Management Strategy

During the site visit, NIRB staff observed that reclamation was ongoing at the North Cell of the tailings storage facility and it was noted that reclamation has not commenced at the South Cell. Agnico Eagle staff stated that tailings will continue to be deposited into South Cell until the cell is full (see [Photo 27](#) and [Photo 28](#)).



Photo 27: Tailings Storage Facility – North Cell



Photo 28: Tailings Storage Facility – South Cell

Condition 25: Managing attraction of carnivores and/or raptors to reduce or eliminate attraction at all landfills and waste storage areas

During the site visit, NIRB staff did not observe wildlife deterrents at the landfill or the waste storage areas. In addition, deterrents were not observed at the fuel tank farm at the Baker Lake marshalling facility which has attracted nesting birds in the past. Further, Agnico Eagle staff indicated that Peregrine Falcon nests have been observed at various quarry sites along the AWAR since 2017. One nest has been observed at quarry 22 which has been previously used as a temporary storage area for contaminated hydrocarbon soil. No deterrents have been observed in these areas to deter the falcons from nesting in these areas and Agnico Eagle noted that no plans have been put in place to determine how these areas would be remediated during the closure period especially with these sites currently being used as active raptor nesting sites.

Condition 27: Fuel and hazardous materials storage

Water was observed within the secondary storage containment facilities for the fuel tank farms but there was no visible sheen on the water or discernable hydrocarbon odours at either the Baker Lake or the Meadowbank site fuel facilities (see [Photo 29](#) to [Photo 32](#)). The liner at the Baker Lake Fuel Storage facility was exposed and it was noted by Agnico Eagle staff that this may be due to the amount of rainfall over the summer that washed away the gravel that usually covers the liner. No indication was provided on whether or not the liner would be fixed or covered with gravel.



Photo 29: Baker Lake Fuel Tank Farm Facility



Photo 30: Exposed Liner at the Baker Lake Fuel Tank Farm



Photo 31: Meadowbank Fuel Tank Farm Facility



Photo 32: Aviation Fuel Tank Farm

3.2.3.2 Air Quality

Condition 74: Dust Suppressants

Agnico Eagle staff noted that it continues to apply TETRA flakes (calcium chloride) along three (3) critical areas on a two (2) km section of the AWAR as agreed upon with the local Hunters and Trappers Organization as well as two (2) additional sites. Along each of the five (5) sites, Agnico Eagle also continues to conduct dust sampling to assess dustfall rates in the dust suppression locations, as well as long two (2) reference sites without dust suppression (km 18 and 78). No other dust suppressants are applied along the rest of the AWAR. In addition, dust monitoring continues to be conducted along multiple stations along the AWAR (see [Photo 33](#)).

Agnico Eagle staff also stated that calcium chloride flakes are applied to the areas around the Meadowbank camp site and from the Baker Lake dock facility to the gatehouse. In addition, water is used as the dust suppressant on the mine access roads around the Meadowbank site and within the pits. However, during the site visit NIRB staff noted that the use of water as a dust suppressant did not appear to be effective.



Photo 33: Dust Sampling Station along the AWAR

3.2.4 Recommendations and Direction of Meadowbank Site Visit

Based on the observations made during this site visit, all Meadowbank facilities in operation and all sites currently under construction continue to appear to be well managed, and generally are maintained with adequate environmental protection measures and procedures in place. Based on the topics community members discussed at the community consultation, Agnico Eagle must ensure that the potential adverse effects to the terrestrial, marine, and socio-economic environment should be adequately mitigated.

The Monitoring Officer noted the following successes at the Meadowbank facilities:

- The landfarm and hydrocarbon remediation program undertaken in 2013 appeared to have been successful in treating hydrocarbon contaminated soil.
- Groundwater wells appeared to be working and operational since the revisions of the groundwater well program.

As with years past, Agnico Eagle appears to be in compliance with a majority of the terms and conditions contained within the Meadowbank Project Certificate No. 004; however, there may be certain situations in which the Proponent has not yet fully met the requirements of the Project Certificate and which require further consideration and attention.

Term and Condition 25 requires that the Proponent employ legal deterrents to deter carnivores and/or raptors at all landfill and waste storage areas. During the site visit, Agnico Eagle stated that wildlife (including muskox, caribou, wolves, and birds) had been observed around the site and along the AWAR. Since 2017, raptors (Peregrine Falcon) have nested at various quarry sites along the AWAR including quarry 22 which had been used previously used as temporary storage for contaminated hydrocarbon soil until the landfarm was developed. Plans are in place to remediate this quarry site but have been delayed due to the active Peregrine Falcon nests at this quarry site. Lack of wildlife deterrence at this site and other areas at the Meadowbank site does not fully meet the requirements of Term and Condition 25 of the amended Project Certificate No. 004.

Term and Condition 74 requires that the Proponent employ environmentally protective techniques to suppress any surface dust. To date, this condition has not been met by the Proponent as dust suppressants have not been employed along the whole AWAR. The only dust suppressants that

have been applied to date have been at the mine site, along the access road between the Baker Lake facility and the gatehouse, and along along three (3) critical areas at km 10-12, 24-26, and 48-50, as agreed upon with the Baker Lake Hunters and Trappers Organization as well as two (2) additional sites at km 68-70 and 80-84. Further, the Proponent initiated a dust sampling program along the road in 2012 to monitor dust deposition on vegetation along the road with additional studies conducted in 2016. Results from the ongoing studies viewed during the site visit have been provided in Agnico Eagle's 2018 annual report.

3.3 Whale Tail Pit Project Site Visit

3.3.1 Whale Tail Pit Project Description

The Whale Tail Pit Project involves the mobilization, construction, operation, closure, reclamation, and post-closure monitoring of an open pit gold mine located at the Amaruq property, described by Agnico Eagle as located approximately 150 kilometres (km) north of the Hamlet of Baker Lake and approximately 50 km northwest of the Meadowbank Gold Mine project within the Kivalliq region. In its 2018 Annual Report, Agnico Eagle indicated that production at the Meadowbank mine site to mid-2019 was to bridge the gap between the expected cessation of mining at Meadowbank and the expected start of operations at the Whale Tail Pit in Q3 2019. (Agnico Eagle 2019).

The Whale Tail site is comprised of a camp, associated mining infrastructure, and one (1) open pit, North Basin of the Whale Tail Lake. In August 2019 the main camp was opened but still requires additional accommodations wings to be completed. The haul-road expansion was completed in November 2018; however, additional pullouts are required and a final survey of the road was planned for September 2019.

The dike across the Whale Tail Lake to separate the lake into the North Basin and South Basin was constructed in the summer of 2018 with a fish out completed in August and the dike was completed in March 2019. Dewatering of the North Basin was still ongoing at the time of the site visit.

Mining started at the North Basin in the second quarter of 2019 but at the time of the site visit the mine was not yet in full commercial production. Open pit mining has commenced at the Whale Tail pit and commissioning of the long-haul truck fleet was underway. Ore from the pit is being trucked from the Whale Tail site via an approximately 65 km long private haul-road at a rate of 9,000 to 12,000 tonnes per day to the existing Meadowbank Gold Mine for milling.

For the Whale Tail Pit Project, Agnico Eagle continues to use the existing marine infrastructure located at Baker Lake and the all-weather access road between Baker Lake and the Meadowbank site, which support open-water shipping during the construction phase and annual resupply during operations. [Figure 4](#) provides the location of the Whale Tail Pit Project and the site layout.

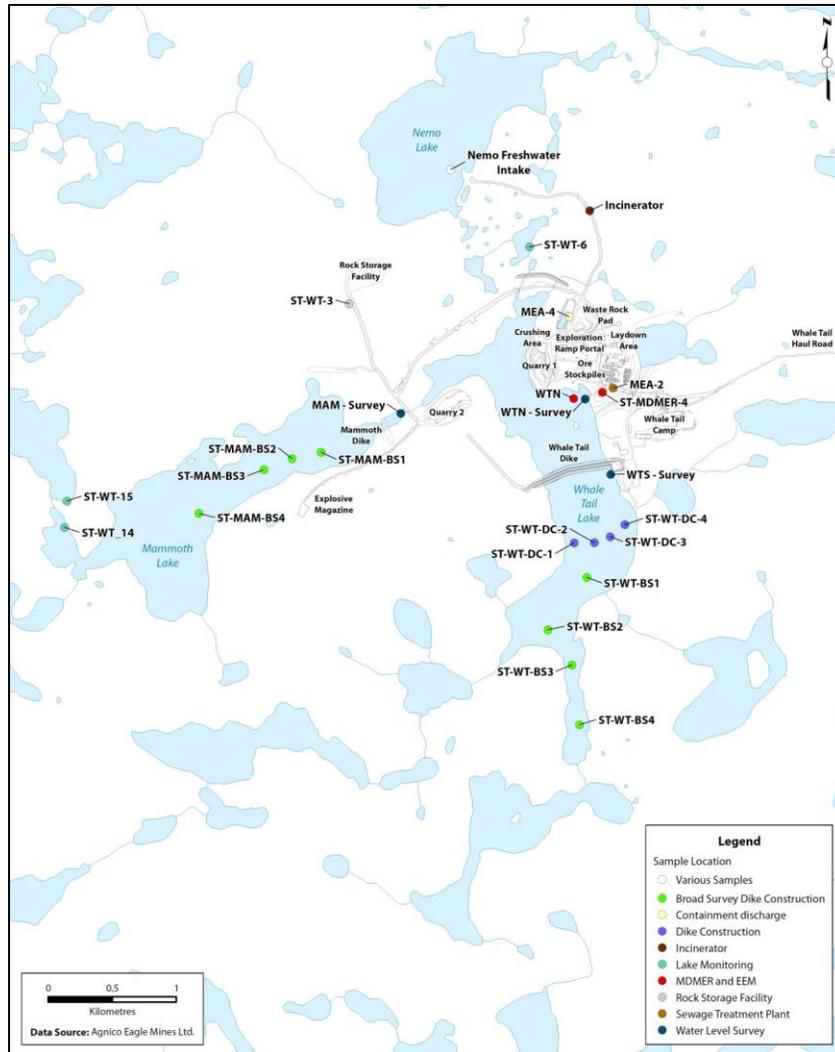


Figure 4: Whale Tail Area (from Agnico Eagle’s 2018 Annual Report; Figure 4)

3.3.2 General Observations for Whale Tail Site

The following are general observations made during the Whale Tail site visit and do not pertain specifically to any particular terms or conditions of the Project Certificate:

3.3.2.1 Haul-road to the Whale Tail site at the Amaruq property

The Haul-road between Meadowbank Mine Site and Whale Tail site consists of one (1) snowmachine crossing, dust monitoring stations, quarry sites, and environmental emergency equipment at all bridge crossings. The following are general observation noted along the haul-road:

- a) During the site visit, the Haul-road to the Whale Tail site was closed to all traffic (except essential traffic) as caribou were migrating through the area between km 150 and km 175 with the majority of the caribou located on the eastern side of the road. NIRB staff joined

the Environmental Supervisor to conduct the site visit along the Haul-road and at Whale Tail Pit as the Environmental Supervisor needed to conduct monitoring of the caribou along the road (see [Photo 34](#) and [Photo 35](#)).



Photo 34: Caribou herd along the Haul-road



Photo 35: Caribou along the Haul-road

- b) While travelling along the road, a convoy of essential vehicles was travelling from the Whale Tail site to the Meadowbank Mine site. The convoy is always escorted by the Environment Department and it was observed that the convoy consisted of three (3) trucks (Environment Department truck, and two (2) trucks that were being returned to Meadowbank), one (1) bus (containing employees going home for the shift change), and a food truck (see [Photo 36](#)).



Photo 36: View of convoy travelling along the Amaruq Haul-road

- c) In addition to the caribou observed along the Haul-road, several other species of wildlife were observed including geese, sand-hill cranes, and muskox. Agnico Eagle staff stated that caribou, muskox, and wolves were observed occasionally along the Haul-road.
- d) It was noted that environmental emergency seacans with spill kits were not available at all the bridges along the Haul-road to the Whale Tail site (see [Photo 37](#)). In response to questions, Agnico Eagle staff stated that seacans containing booms, shovels, absorbent

pads, and other miscellaneous spill response equipment are anticipated to be located at all the bridges in the coming year.



Photo 37: Spill response equipment not observed at one of the bridges along the Amaruq Haul-road

- e) The one (1) snowmachine crossing is located along the Haul-road near km 127 and there were no signs of extreme slopes or rocks at the crossing (see [Photo 38](#) and [Photo 39](#)).



Photo 38: Snowmachine crossing near km 12



Photo 39: Slope on the other side of the snowmachine crossing near km 12

3.3.2.2 Whale Tail Site

- a) The Whale Tail site was extremely active with drilling occurring at the North Basin and the site moving into full operations (see [Photo 40](#) through [Photo 44](#)).
- b) Exploration activities were also ongoing with haul trucks moving rock and ore from the underground via the portal (see [Photo 45](#) and [Photo 46](#)).



Photo 40: Overview of the Whale Tail Pit Site



Photo 41: View of Whale Tail Pit – North Basin



Photo 42: Nemo Lake Freshwater Intake



Photo 43: Long Haul Truck at Meadowbank Mine Site



Photo 44: View of the North Basin from the Dike Across Whale Tail Lake



Photo 45: Entrance to the underground portal



Photo 46: Haul Trucks

- c) It was noted during the 2019 site visit that Agnico Eagle had started to segregate and store all domestic, hazardous, and combustible wastes in marked seacans prior to these materials being incinerated at the Meadowbank site or shipped to the appropriate and approved off-site disposal facilities (see [Photo 47](#)).



Photo 47: Seacans used for waste segregation and storage area at Whale Tail Site

- d) Water was observed within the secondary storage containment facility for the fuel tank farm at the Whale Tail Pit site but there was no visible sheen on the water or discernable hydrocarbon odours (see [Photo 48](#)).



Photo 48: Whale Tail Pit Fuel Tank Farm Facility

3.3.3 Site Observations based on NIRB's Project Certificate No. 008

The following provides a summary of observations made with respect to the relevant terms and conditions related to Project Certificate No. 008. [Appendix B](#) provides a more detailed summary of pertinent terms and conditions of Project Certificate No. 008 relevant to the construction and operations of the Whale Tail Pit Site.

3.3.3.1 Air Quality

Condition 2: Dust Management and Monitoring Plan

During the site visit, it was noted that dust suppressants were not being applied to the whole AWAR (see [Section 3.2.3.2](#) for further discussion), along the haul-road to the Whale Tail site nor at the Whale Tail site. Agnico Eagle noted that water is the only dust suppressant being used along the Haul-road; however, none was applied due to the heavy rains received. Further, it was observed during the site visit that no dust suppressants were applied at the Whale Tail site including at the North Basin Pit which was later confirmed by the Agnico Eagle staff (see [Photo 41](#), [Photo 49](#) and [Photo 50](#)). The reason for not applying suppressants at the time was due to the heavy rains received in August. Dust monitoring continues to be conducted along multiple stations along the Haul-road which was observed during the site visit (see [Photo 51](#)).



Photo 49: Dust over the North Basin Pit



Photo 50: Dust over the Whale Tail site



Photo 51: Dust Monitoring Station along the Haul-road

3.3.3.2 Thermal Monitoring

Condition 8: Waste rock thermal monitoring and seepage management

During the site visit NIRB staff were informed that thermal monitoring of the waste rock storage facility had not started as the facility is being developed and thermistors have not been installed; however, thermistors have been installed along the dike that separates the North Basin from the South Basin. Seepage management and monitoring is ongoing.

3.3.3.3 Wildlife and Terrestrial

Condition 31: Road Traffic Management

During the site visit it was noted that traffic monitoring logs for traffic along the Haul-road between the Whale Tail Pit site and the Meadowbank mine site are maintained by dispatch. Any vehicle entering and leaving the Haul-road is required to radio in to the operator of the pits.

Condition 32: Safety barriers, berms and crossing with project infrastructure

During the site visit, it was noted that discussions are ongoing with the Baker Lake Hunters and Trappers Organization in the development of the wildlife crossings for the Haul-road, but that there are currently no specific caribou/wildlife crossings in place. In addition, it was observed that the Haul-road has not been sloped specifically to assist wildlife in crossing the road. NIRB staff also witnessed that caribou which attempted to cross the Haul-road from the east to the west side appear to have a difficult time and tended to find more gentle sloped areas along the road before crossing.

3.3.4 Recommendations and Direction of Whale Tail Site Visit

Based on the observations made during this site visit, all Whale Tail Site facilities in operation and all sites currently under construction continue to appear to be well managed, and generally are maintained with adequate environmental protection measures and procedures in place. Based on

the topic's community members discussed at the public information session, Agnico Eagle must ensure that the potential adverse effects to the terrestrial, marine, and socio-economic environment should be adequately mitigated.

The Monitoring Officer noted the following successes at the Whale Tail pit facilities:

- Segregation and storage of all domestic, hazardous, and combustible wastes appear to be conducted appropriately.

Agnico Eagle appears to be in compliance with a majority of the terms and conditions contained within the Whale Tail Pit Project Certificate No. 008; however, there may be certain situations in which the Proponent has not yet fully met the requirements of the Project Certificate and which require further consideration and attention. The Monitoring Officer will be looking at the following during the next site visit:

- Ensure sufficient spill response equipment/material are put in place along the Haul-road at each major waterbody crossing.

Additionally, in order to fully meet the requirements of the Project Certificate terms and conditions, and to ensure that potential adverse impacts to the environment are adequately mitigated, the NIRB Monitoring Officer has identified the following issues that require follow-up and corrective action from the Proponent:

Term and Condition 2 requires that the Proponent verify commitments to the utilization of dust suppressants along the AWAR, the Amaruq Haul-road and any other roads and trails associated with the Project. To date, this condition has not been met by the Proponent as dust suppressants have not been employed along the whole AWAR, the Amaruq Haul-road and the Whale Tail Pit site roads.

Term and Condition 32 requires the Proponent to work with parties to ensure that safety barriers, berms, and designed crossings associated with project infrastructure, including the haul road, are constructed and operated as necessary to allow for the safe passage of caribou and other terrestrial wildlife. During the site visit it was noted that there are currently no specific caribou/wildlife crossings in place along the Haul-road and that the road has not been sloped in such a way to assist wildlife to easily cross the road.

4 CONCLUSION

Overall, Agnico Eagle appears to be in compliance with the majority of the terms and conditions contained within the Meadowbank Gold Mine Project Certificate No. 004 and within the Whale Tail Pit Project Certificate No. 008. As noted in previous years, dust suppressants have not been applied the all-weather access road to Meadowbank or the Haul-road, or not applied frequently enough.

Prepared by: Sophia Granchinho, M.Sc., EP
Title: Manager, Impact Assessment
Date: October 2, 2019
Signature:



Reviewed by: Kelli Gillard, PAg
Title: Manager, Project Monitoring
Date: October 2, 2019
Signature:



NIRB File Nos. 03MN107 & 16MN056

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Appendix A: 2019 NIRB Site Visit Observations for Select Terms and Conditions for the Meadowbank Gold Mine Project

T&C No.*	Topic	Site Observation
Water Quality and Waste Management		
8	Groundwater Monitoring	During the site visit all five wells in place were operational.
18	Tailings Management Strategy	a) Thermistors, installed in 2012 to measure freezeback, were still observable during the site visit. b) Tailings have been deposited into the South Cell of the tailings facility since 2016 and have been slowly being winding down in 2019.
Waste Management		
25	Managing attraction of carnivores and/or raptors to reduce or eliminate attraction at all landfills and waste storage areas	No deterrents were noted to be in place at the landfill (no fences or other forms of deterrence observed during the site visit) or at the waste storage areas (including quarry sites used previously as temporary contaminant storage areas) to detract wildlife or raptors from these areas.
26	Site maintained clean of debris	NIRB staff observed that all areas were kept in a clean state, with no obvious spills. There was no evidence of wind-blown material viewed around the Meadowbank site and at the ancillary facilities in Baker Lake.
27	Fuel and hazardous materials storage	NIRB staff noted that fuel and hazardous materials associated with Agnico Eagle's Meadowbank project appeared to be stored in a safe and environmentally protective manner.
All-weather Private Access Road		
32	Amended all-weather access road	a) One (1) manned gate was operational at kilometer 5 recording traffic, including ATVs while a second unmanned gate is located at the entrance of the Meadowbank Mine site. b) All traffic (including public traffic) is required to check-in (via radio or in person) with the employee at the gatehouse prior to proceeding along the road from either the mine site or from Baker Lake and the gatehouse keeper maintains a daily log and have public sign Agnico Eagle's <i>All Weather Private Access Road Safety Rules & Procedures for Road Access</i> policy prior to being granted access to the road. c) Road signs were posted in both English and Inuktitut at the gatehouse, at each major bridge crossing on the side of the environmental emergency sea-cans, and at 10 kilometre intervals along the AWAR. d) Observed speed limit signs along the AWAR.
Wildlife and Terrestrial		
56	Maps of caribou	A 2018 caribou migration map showing caribou migration routes was posted on a bulletin board at the main camp (near the door to the gym).

	migration corridors	
59	Deterrence of caribou at the tailings facility	No wildlife tracks were observed on the North or South cells of the tailings facility as noted in previous years.
Noise		
62	Noise	There was no discussion on the noise monitoring program for the 2018/2019 year during the site visit.
Air Quality		
71	Atmospheric monitoring stations	Air and partisol monitoring stations have been in place at two (2) stations around the Meadowbank Mine Site since 2010.
72	On-site Incinerators	The Meadowbank site dual chamber forced air incinerator remains in service for the combustion of all non-hazardous, combustible materials at the site. To reduce the quantity of wastes being burned at the incinerator, a composting program was established in 2019.
74	Dust Suppressants	Agnico Eagle staff noted that dust sampling stations were placed along the AWAR at various distances from both the east and west sides the road in two (2) duplicate transects to monitor dust deposition distance from the road. Dust canisters are placed 25, 50, 100, 150, 300, and 1000 metres away from the AWAR.
Other		
81	24-hour security at the Baker Lake Facility	A security office was located at the shore with Agnico Eagle employees on site and areas were kept clean with seacans well organized.

NOTES: *PC = NIRB Project Certificate No. 004, Amendment 003 (December 2018)

Appendix B: 2019 NIRB Site Visit Observations for Select Terms and Conditions for the Whale Tail Pit Project

T&C No.*	Topic	Site Observation
Air Quality		
1	Active and Passive Monitoring of Dustfall	Active and passive monitoring of dustfall for criteria air contaminant concentrations is ongoing at the Whale Tail site.
2	Dust suppression on roads	Dust monitoring along the Haul-road commenced in the summer of 2018 with monitoring stations located at km 133, 151, 169. The monitoring program is similar to the one conducted on the AWAR with the exception that the canisters are placed at four (4) transects instead of five (5); 25, 100, 300, and 1000 meters on the east and west sides of the roads. Transects are not necessarily fully duplicated but duplicates are randomly placed along the stations.
Noise and Vibration		
5	Noise Monitoring Stations	Noise monitoring stations were installed in 2018 and operational
Geological Features, Soils and Permafrost		
10	Site-specific Permafrost Monitoring, Mapping and Thermal Analysis	No additional permafrost monitoring or thermal analysis have been conducted by the Proponent.
Hydrogeology and Groundwater Quantity and Quality		
15	Groundwater Monitoring Plan	At the time of the site visit, no information was available on whether any additional site-specific hydraulic data were collected; however, Agnico Eagle staff stated that the monitoring wells were installed.
Surface Water Hydrology, Surface Water Quality and Sediment Quality		
23	Trophic status of the Mammoth Lake and downstream environments	No additional studies have been conducted to support the conclusions that change in the trophic status in Mammoth Lake would not impact fish productivity.
Vegetation		
25	Invasive Species	Agnico Eagle noted that the protocol to ensure that vehicles are not bringing in any invasive species to site is to inspect all vehicles prior to receiving at the barge in Quebec. Further, a consultant has been hired to train staff from the environment department in the identification of potential invasive species around the site.
Terrestrial Wildlife		
31	Road Traffic Management	Caribou and muskox were observed along the haul-road with the haul-road only open to essential traffic due to caribou migration at time of site visit.
36	Raptor Mitigation Measures	During the site visit, Agnico Eagle staff note that studies are ongoing to identify raptor nests and the results of the studies would be reported in the next annual report. With the exception of the raptor nests identified at the

		quarry sites along the all-weather access road, Agnico Eagle noted that no additional raptor nests were identified at any of the Whale Tail facilities and no raptor deterrence was conducted for the 2018 year.
Human Health		
63	Methylmercury concentrations	In response to NIRB staff questions, Agnico Eagle stated that that methylmercury studies were conducted on site and are still ongoing.

NOTES: *PC = NIRB Project Certificate No. 008 (March 2018)