



Nunavut Impact Review Board

2024 Site Visit Report for

Agnico Eagle Mines Ltd.'s

Doris North Gold Mine and Phase 2 Hope Bay Belt Projects



Doris North (NIRB File No. 05MN047) and
Phase 2 Hope Bay Belt (NIRB File No. 12MN001)

January 2025

Full Report Title: 2024 Site Visit Report for the Nunavut Impact Review Board's Monitoring of Agnico Eagle Mines Ltd.'s Doris North Gold Mine (NIRB File No. 05MN047) and Phase 2 Hope Bay Belt (NIRB File No. 12MN001) Projects

Projects: Doris North Gold Mine and Phase 2 Hope Bay Belt Projects

Project Location: Kitikmeot Region, Nunavut

Land Tenure: Inuit Owned Land

Project Owner: Agnico Eagle Mines Limited
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Proponent Contact: Guy Dufour, Environment General Supervisor

Visit conducted by: Cory Barker, Manager, Project Monitoring

Site visit date: August 7, 2024

Last site visit: August 14, 2023

Report prepared by: Cory Barker

Photos by: NIRB Staff

Cover photo: Doris North Overview¹

¹ This photo overview of site was taken in August 2022. Fly-over options were limited in 2024; however, as the site remains in care and maintenance the photo is provided as an overview for readers which is still applicable.

TABLE OF CONTENTS

1	INTRODUCTION	4
1.1	Objectives and Purpose of Site Visit	4
2	THE PROJECTS	4
3	OBSERVATIONS LINKED TO PROJECT CERTIFICATES	6
4	GENERAL OBSERVATIONS AT SITE	7
	Doris North.....	8
4.1.1	Main Camp Area	8
4.1.2	Doris North Tailings Impoundment Area.....	11
4.1.3	Quarry, Incinerator and Landfarm area.....	14
	Roberts Bay	17
	Phase 2 Hope Bay Belt	20
4.1.4	Madrid North Site, Naartok East Crown Pillar Pit.....	20
4.1.5	Madrid Waste Rock Management.....	23
	Windy Exploration Camp	24
5	CONCLUSION.....	25

LIST OF TABLES

Table 1: Doris North and Phase 2 Hope Bay Belt Projects History	5
Table 2: Doris North Project Certificate No. 003 Amendment 002	6
Table 3: Phase 2 Hope Bay Belt Project Certificate No. 009 (2018)	6

LIST OF FIGURES

Figure 1: Hope Bay Project.....	5
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LIST OF PHOTOS

Photo 1: Doris North Main Portal (closed).	8
Photo 2: Contact Water Storage Pond.	8
Photo 3: The Inuit Cultural Centre.	9
Photo 4: Counselor Information Poster at Doris Camp.	9
Photo 5: Sedimentation Pond at Doris North which collects Runoff Water.	10
Photo 6: Continuous Air Quality Monitoring Station, next to Doris Lake.	10
Photo 7: Weather Monitoring Station at Doris North.	11
Photo 8: South Dam at the Tailings Impoundment Area.....	11
Photo 9: Discharge Point and Monitors at the South Dam.....	12
Photo 10: Wildlife Camera at the Tailings Impoundment Area.	12
Photo 11: Aqua Dam, measures in place to be compliant with the new <i>Metal and Diamond Mining Effluent Discharge Regulations</i>	13
Photo 12: Inside of Effluent Water Treatment Plant.....	13
Photo 13: Outside View of Effluent Water Treatment Plant.	14
Photo 14: Active Quarry 2.....	14
Photo 15: Industrial Composter Installed at the Incinerator Facility.....	15
Photo 16: Hopper for Organic Waste to be Loaded.	15

Photo 17: Soil from Industrial Composter.	16
Photo 18: Incinerator Facility.	16
Photo 19: Landfarm Facility.	17
Photo 20: Saline Discharge and Water Recirculation Lines along the Roberts Bay Jetty.	17
Photo 21: Saline Discharge and Water Recirculation lines.	18
Photo 22: Roberts Bay Tank Farm and Fuel Storage.	18
Photo 23: Spill Equipment in Seacans next to the Robert's Bay Jetty.....	19
Photo 24: Floating Booms in Seacans at Roberts Bay.....	19
Photo 25: Wildlife Passage under the Windy Road going to Madrid.....	20
Photo 26: Caribou Trail Leading to Wildlife Passage.	21
Photo 27: Wildlife Camera at Wildlife Passage.	21
Photo 28: Naartok East Crown Pillar Pit Construction.....	22
Photo 29: Closed Former Madrid Portal.....	22
Photo 30: PAG Rock Storage Area.	23
Photo 31: PAG Rock Storage Area Sedimentation Pond.....	23
Photo 32: Windy Camp.	24

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 per 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 a summary of observations from the NIRB's Site Visit of the Doris North Gold Mine and Phase 2 Hope Bay Belt Projects that took place on August 7, 2024.

1.1 Objectives and Purpose of Site Visit

The objective of the NIRB's Site Visit was to make visual observations on the project activities being carried out in compliance with the Terms and Conditions of the Doris North Gold Mine Project (Doris North) Project Certificate No. 003 and for the Phase 2 Hope Bay Belt (Phase 2) Project Certificate No. 009 (version issued in 2018) as required by Section 12.7.2(b) of the *Nunavut Agreement* and s. 135(3)(b) of the *Nunavut Planning and Project Assessment Act*. These observations will be incorporated into the NIRB's 2024 Monitoring Report.

TMAC Resources Inc. (the named responsible party on Project Certificate No. 003 and No. 009) is a wholly owned subsidiary of Agnico Eagle Mines Limited (Agnico Eagle). The observations made in this site visit were completed under the Project Certificate No. 003, Amendment 002 and Project Certificate No. 009. Observations were based on Management Plans versions and Project operations as described in the 2023 Annual Report submitted to the NIRB in April 2024.

2 The Projects

The Doris North and Phase 2 Hope Bay Belt sites are located 110 kilometres (km) south of Cambridge Bay and 65 km Northeast of Omingmaktok (Bay Chimo) near Melville Sound in the Kitikmeot region of Nunavut. Doris North is located at the north end of the Hope Bay Belt at the Doris deposit while the Phase 2 Hope Bay Belt project includes both of the Madrid sites (North and South) located approximately eight (8) km south of Doris North, and the Boston site 80 km further south ([Figure 1](#)). Both Projects involve construction, operation, and eventual decommissioning of underground gold mines and small open pits for crown pillar removal, located on Inuit-owned lands involving both Inuit and Crown-owned minerals. The Project sites are accessed by sealift for fuel and supplies, and by air for personnel movements and select freight.

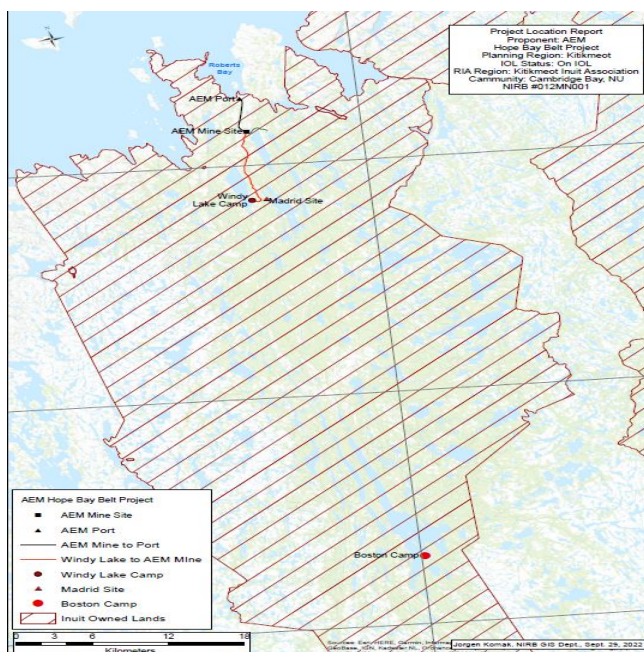


Figure 1: Hope Bay Project

Information on the Doris North Project and the 2016 Amendment (Amendment 002) is available on the NIRB's Public Registry at www.nirb.ca/project/123632.

For further information on the Phase 2 Hope Bay Belt Project refer to the NIRB's Public Registry at www.nirb.ca/project/124148.

Table 1: Doris North and Phase 2 Hope Bay Belt Projects History

2006	Project Certificate No. 003 (Doris North) issued to Miramar Hope Bay Limited
2008	Doris North and Hope Bay Belt projects acquired by Newmont Mining Corporation
2012	The Doris North Project placed in care and maintenance
2013	TMAC Resources Inc. (TMAC) acquired Hope Bay Belt projects
2015	Doris North operations resumed, and mine construction started
2016	Project Certificate No. 003 amended to designate TMAC as the responsible party
2017	Start of commercial production at Doris North
2018	Trenching and reclamation of Doris Crown Pillar; Project Certificate No. 009 issued for Phase 2 Hope Bay Project including the Madrid North/South and Boston deposits
2019	Construction started at Madrid North (Portal and Naartok East Crown Pillar Pit)
2020	Discharge through the waterline to Roberts Bay commenced. Agnico Eagle Mines Limited purchased TMAC and assumed operations
2021	Naartok East Crown Pillar pit mined out, portal temporarily closed, operations at Madrid suspended and plans for the development of Madrid re-evaluated
2022	Agnico Eagle paused commercial production to focus on exploration and planning for future development and operations of the Projects
2023- 2024	Agnico Eagle continues to focus on exploration and future planning for the Projects

3 Observations Linked To Project Certificates

The following tables summarize observations made specific to requirements of Project Certificate No. 003 Amendment 002 and Project Certificate No. 009 (2018).

Table 2: Doris North Project Certificate No. 003 Amendment 002

T&C	Subject	Observation
6	Tailings Impoundment Area (TIA) or modification of the existing TIA	To comply with the <i>Metal and Diamond Mining Effluent Regulations</i> (MDMER) Agnico Eagle built an Aqua Dam in its Tailings Area. Agnico Eagle has also completed construction of a water treatment plant at the TIA to process the tailings impoundment water to meet MDMER for discharge to Roberts Bay.
8	Weather station	There is a weather station is on site and operational.
14	Monitoring on both Doris Creek and effluent in the TIA	Processed saline TIA water is being discharged into Roberts Bay.
19	Thermistor Cables and Temperature loggers in jetties	Thermistors are installed at the jetty.
20, 33	To prevent ecosystemic effects in the event of fuel or waste spills	Spill kits are placed and visible throughout the mine site and next to the Roberts Bay.
22	Ongoing wildlife monitoring	Wildlife cameras are visible at site.
25 & 26	Wildlife-TIA interaction and recording of wildlife at Doris site	Wildlife cameras are installed around tailing impoundment facility.
30	Air Quality	Dust monitoring stations were visible at multiple locations around the site.
33	Spill kits at Roberts Bay	Spill at sea response equipment was stored at Roberts Bay as well as spill kits visible around the site.

Table 3: Phase 2 Hope Bay Belt Project Certificate No. 009 (2018)

T&C	Subject	Observation
1	Air Quality Monitoring	Dust monitoring stations were observed across site.
2	Green House Gas (GHG) Reduction	Agnico Eagle built a composter to reduce GHG production and manage organic waste. Agnico Eagle also has vehicle idling limits in place.
6	Monitor the integrity of infrastructures.	Thermistors are currently installed and monitored across site as well as in the dam at the TIA.
7	Erosion Management	Silt fencing and coconut mats are in place to reduce erosion at various locations around site.
8	Progressive Reclamation	Agnico Eagle has decommissioned Windy Camp and continues to limit their site footprint to avoid unnecessary disturbance.

T&C	Subject	Observation
11	Mitigate potential impacts to groundwater, surface water and freshwater.	Monitoring occurs at Windy Lake as it is the drinking water source for the Doris North Camp.
12	Setback on quarries	The Quarries along Windy Lake Road were observed to have appropriate setbacks to waterbodies.
13 & 16	Watercourses maintain movement of water and/or fish	The bridge and other infrastructure along Windy Road were positioned to maintain the movement of water and/or fish.
19 & 20	Minimize impacts to terrestrial wildlife from road traffic.	There is a wildlife passage under Windy Road going to Madrid to facilitate the passage of wildlife along a known caribou track.
47	Health and Wellness	Posters about mental wellness were present in the cultural centre with contact information.

4 General Observations at Site

The NIRB site visit was conducted on August 7, 2024 by NIRB Staff, Cory Barker. NIRB staff flew from Cambridge Bay to the Back River site via charter aircraft. The NIRB Staff were greeted and toured by Mr. Guy Dufour, Environment General Supervisor. NIRB staff were able to visit the Main site facilities at Doris, the Roberts Bay Area, as well as the Madrid sites. During the visit, NIRB staff, Mr. Dufour and other Agnico Eagle employees discussed the activities occurring at site as well as the observations and solutions for any areas of concern.

The following sections briefly describe the major facilities visited during the tour. Where applicable, NIRB Staff noted compliance with specific terms and conditions of the Project Certificate.

Doris North

4.1.1 Main Camp Area



Photo 1: Doris North Main Portal (closed).



Photo 2: Contact Water Storage Pond.



Photo 3: The Inuit Cultural Centre.



Photo 4: Counselor Information Poster at Doris Camp.



Photo 5: Sedimentation Pond at Doris North which collects Runoff Water.



Photo 6: Continuous Air Quality Monitoring Station, next to Doris Lake.



Photo 7: Weather Monitoring Station at Doris North.

4.1.2 Doris North Tailings Impoundment Area



Photo 8: South Dam at the Tailings Impoundment Area.

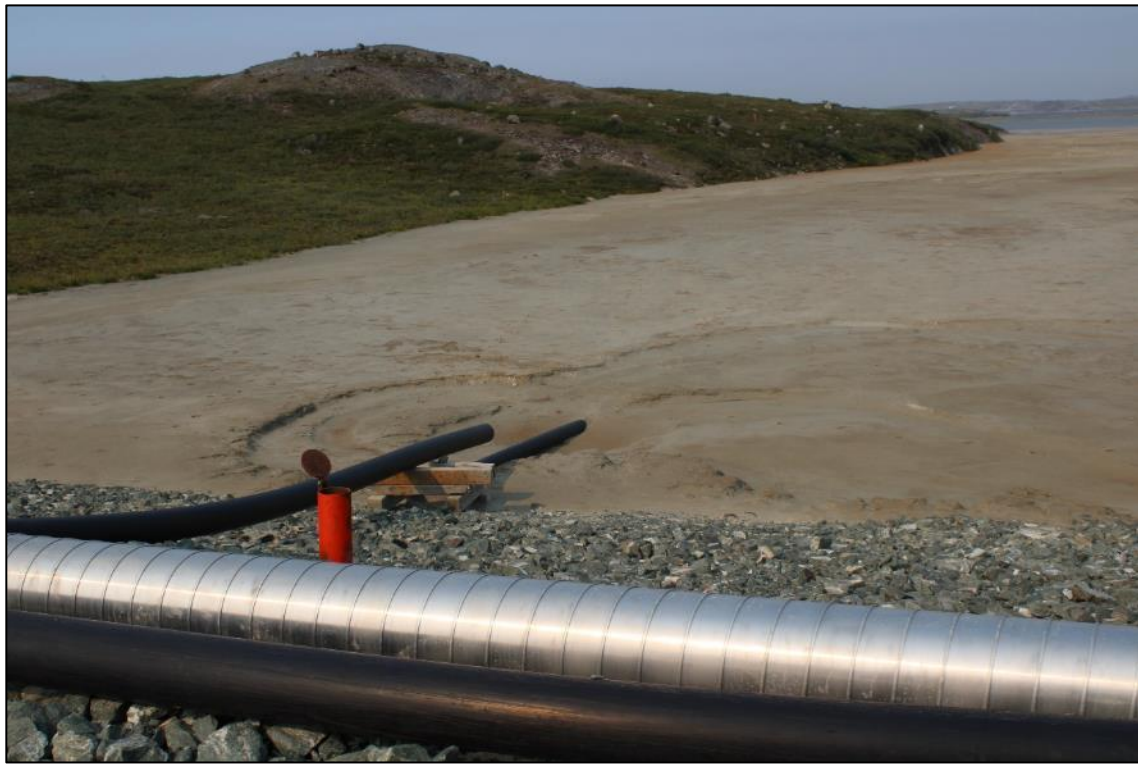


Photo 9: Discharge Point and Monitors at the South Dam.



Photo 10: Wildlife Camera at the Tailings Impoundment Area.



Photo 11: Aqua Dam, measures in place to be compliant with the new *Metal and Diamond Mining Effluent Discharge Regulations*.



Photo 12: Inside of Effluent Water Treatment Plant.



Photo 13: Outside View of Effluent Water Treatment Plant.

4.1.3 Quarry, Incinerator and Landfarm area



Photo 14: Active Quarry 2.



Photo 15: Industrial Composter Installed at the Incinerator Facility.



Photo 16: Hopper for Organic Waste to be Loaded.



Photo 17: Soil from Industrial Composter.



Photo 18: Incinerator Facility.



Photo 19: Landfarm Facility.

Roberts Bay



Photo 20: Saline Discharge and Water Recirculation Lines along the Roberts Bay Jetty.



Photo 21: Saline Discharge and Water Recirculation lines.



Photo 22: Roberts Bay Tank Farm and Fuel Storage.



Photo 23: Spill Equipment in seacans next to the Robert's Bay Jetty.



Photo 24: Floating Booms in seacans at Roberts Bay.

Phase 2 Hope Bay Belt

At the Madrid North site, no operational activities were being carried out and the area has not been active since 2020. The Proponent continues to complete monitoring requirements under the Project Certificate.

4.1.4 Madrid North Site, Naartok East Crown Pillar Pit



Photo 25: Wildlife Passage under the Windy Road going to Madrid.



Photo 26: Caribou Trail Leading to Wildlife Passage.



Photo 27: Wildlife Camera at Wildlife Passage.



Photo 28: Naartok East Crown Pillar Pit Construction.



Photo 29: Closed Former Madrid Portal.

4.1.5 Madrid Waste Rock Management

Located next to the Madrid Portal, the Potential Acid Generating (PAG) Waste Rock Storage pile was constructed. This area is monitored with several water monitoring stations and all the water in contact with the PAG waste rock is collected in the waste rock pond.



Photo 30: PAG Rock Storage Area.



Photo 31: PAG Rock Storage Area Sedimentation Pond.

Windy Exploration Camp

Windy Camp has largely been decommissioned with only a few seacans and storage items left to be moved. Windy Lake remains the main source of potable water for the Doris North Camp and some infrastructure will remain in place to facilitate water withdrawal for the approved mine.



Photo 32: Windy Camp.

5 CONCLUSION

NIRB Staff note that overall Agnico Eagle has generally complied with the Terms and Conditions of the Project Certificate No. 003, Amendment 002, and Project Certificate No. 009 (2018) and has been responsive in addressing any questions raised by NIRB Staff. Even with the site being in care and maintenance, Agnico Eagle continues to keep the site organized.

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