APPENDIX 29-12. ORE STORAGE MANAGEMENT PLAN

AGNICO EAGLE

MELIADINE GOLD MINE

Ore Storage Management Plan

MARCH 2025
VERSION 7

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EXECUTIVE SUMMARY

Agnico Eagle Mines Limited (Agnico Eagle) is operating the Meliadine Gold Mine (Meliadine), located approximately 25 km north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut.

High and mid-grade ore produced from underground and the open pits will be trucked directly to the crusher located at the south end of the process plant. The crushed ore will be transported to the ore bin and then to the process plant via a covered conveyor system. Low grade ore will be stored in stockpiles and milled when needed, and marginal grade will be milled during the last year of operations. There will be no ore stockpiles remaining at mine closure.

Surface runoff and seepage water from the ore stockpiles will flow to the adjacent Collection Pond 1 (CP1) via Channel 1 and Culvert 3, where it will be treated to meet discharge criteria as per the Nunavut Water Board (NWB) Type A Water Licence 2AM-MEL1631 requirement, prior to being discharged to the receiving environment.

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DOCUMENT CONTROL

Version	Date	Section	Page	Revision	Author
1	April 2015			First version of Ore Storage Management Plan as Supporting Document for Type A Water Licence Application, submitted to Nunavut Water Board for review and approval	Tetra Tech EBA Inc.
2	April 2020			General review throughout the document	Engineering Department
3	March 2021			Update Quantities according to latest mine plan	Engineering Department
4	April 2022			Update Quantities according to latest mine plan	Engineering Department
5	March 2023			Update Quantities according to latest mine plan	Engineering Department
6_NWB	January 2024	A yellow arrow in the right-hand margin indicates where updates have been made		Submitted to Nunavut Water Board as part of the Meliadine Mine Water Licence Amendment.	Permitting Department
7	March 2025	All		Update to reflect Meliadine operational status and quantities according to latest mine plan Section 6: Removed details on dust sources and suppression measures. These can be found in the Dust Management Plan.	Engineering Department

ACRONYMS

Agnico Eagle	Agnico Eagle Mines Limited
CP	Collection Pond (or Control Pond or Containment Pond)
EWTP	Effluent Water Treatment Plant
NIRB	Nunavut Impact Review Board
NWB	Nunavut Water Board
OP	Ore Storage Pad
OSMP	Ore Storage Management Plan
Project	Meliadine Gold Mine Project
TSF	Tailings Storage Facility
WRSF	Waste Rock Storage Facility

UNITS

%	percent
°C	degrees Celsius
°C/m	degrees Celsius per meter
cm/s	centimetre per second
ha	hectare
kPa	kilopascal
km	kilometre(s)
L	liter(s)
m	metre
mg	milligram
m/s	metre per second
mm	millimetre
mm/h	millimetre per hour
m^2/year	square metre(s) per year
m^3	cubic metre(s)
Mm^3	million cubic metre(s)
t	tonne
t/m^3	tonne per cubic metre
Mt	million tonne(s)
µm	micrometre

SECTION 1 • INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) operates the Meliadine Gold Mine (the Mine) located approximately 25 kilometres (km) north of Rankin Inlet (Figure 1.1), Nunavut, and 80 km southwest f Chesterfield Inlet in the Kivalliq Region of Nunavut.

The Mine is subject to the terms and conditions of both the amended Project Certificate 006 issued by the Nunavut Impact Review Board (NIRB) in accordance with the Nunavut Land Claims Agreement Article 12.5.12 on March 2nd, 2022 (NIRB, 2022) and the Amended Water Licence No. 2AM-MEL1631 (the Licence), issued by the Nunavut Water Board (NWB) on October 25th, 2024 and approved by the Minister of Northern Affairs on November 22nd, 2024 (NWB, 2024).

This document presents an updated version of the Ore Storage Management Plan (OSMP).

1.1 Ore Storage Management Objectives

The ore storage management objectives are to minimize potential impacts to the environment during the mining phase. The purpose of the OSMP is to provide information to applicable mine departments (Environment, Engineering, Mine, Energy and Infrastructure, etc.) for sound management practices, proposed and existing infrastructure, and provide strategies for water management (runoff), dust control and monitoring programs.

1.2 Management and Execution of the Ore Storage Management Plan

Revisions of the OSMP can be initiated by changes in the Mine Development Plan (Mine Plan), operational performance, personnel or organizational structure, regulatory or social considerations, and/ or design philosophy. The OSMP will be reviewed annually by Agnico Eagle and updated as necessary.

SECTION 2 • BACKGROUND

2.1 Site Conditions

The Mine is located in an area of poorly drained lowlands near the northwest coast of Hudson Bay. The dominant terrain in the area consists of glacial landforms such as drumlins (glacial till), eskers (gravel and sand), and many small lakes. The topography is gently rolling with a mean elevation of 65 meters above sea level (masl) and a maximum relief of 20 meters.

The local overburden consists of a thin layer of topsoil overlying silty gravelly sandy glacial till. Cobbles and boulders are present throughout the region at various depths. Bedrock at the Mine site area consists of a stratigraphic sequence of clastic sediments, oxide iron formation, siltstones, graphitic argillite, and mafic volcanic flows (Snowden, 2008; Golder, 2009).

The climate is extreme in the area, with long cold winters and short cool summers, and mean air temperatures of 12°C in July and -31°C in January. The mean annual air temperature at the Mine site is approximately -10.4 °C (Golder, 2012a). Strong winds blow from the north and north-northwest direction more than 30 percent of the time.

The mean annual precipitation in the area is approximately 412 mm and is typically equally split between rainfall and snowfall.

2.1.1 Local Hydrology

The Mine is located within the Meliadine Lake watershed. Meliadine Lake has a water surface area of approximately 107 square kilometres (km^2), a maximum length of 31 km, features a highly convoluted shoreline of 465 km, and has over 200 islands. Unlike most lakes, it has two outflows that drain into Hudson Bay through two separate river systems. It has a drainage area of 560 km^2 upstream of its two outflows. Most drainage occurs via the Meliadine River, which originates at the southwest end of the lake. The Meliadine River flows for a total stream distance of 39 km. The Meliadine River flows through a series of waterbodies, until it reaches Little Meliadine Lake and then continues into Hudson Bay. A second, smaller outflow from the west basin of Meliadine Lake drains into Peter Lake, which discharges into Hudson Bay through the Diana River system (a stream distance of 70 km). At its mouth, the Diana River has a drainage area of 1,460 km^2.

Watersheds in the Mine area are comprised of an extensive network of waterbodies, and interconnecting streams. The hydrology of these watersheds is dominated by lake storage and evaporation.

2.1.2 Ice and Winter Flows

Late-winter ice thicknesses on freshwater lakes in the Mine area range between 1.0 to 2.3 m with an average thickness of 1.7 m. Ice covers usually appear by the end of October and are completely

formed in early November. The spring ice melt (freshet) typically begins in mid-June and is complete by early July (Golder, 2012b).

2.1.3 Spring Melt (Freshet) and Freeze-up Conditions

With the exception of the main outlet of Meliadine Lake, which has been observed to flow continuously throughout the year, outlets of waterbodies near the Mine typically start flowing late May or early June, followed by freshet flows in mid-to-late-June. Flows steadily decrease in July and low flows are ongoing from August to the end of October, prior to winter freeze.

2.1.4 Permafrost

The Mine is located in an area of continuous permafrost. The depth of permafrost is estimated to be in the order of 360 to 495 m. The depth of the active layer ranges from about 1 m in areas with shallow overburden, up to 3 m adjacent to the lakes. The typical permafrost ground temperatures at the depths of zero annual amplitude (typically at the depth of below 15 m) are in the range of -5.0 to -7.5 °C in the areas away from lakes and streams. The geothermal gradient ranges from 0.012 to 0.02°C/m (Golder, 2012b).

2.1.5 Local Hydrogeology

Groundwater characteristics at areas of continuous permafrost that are generally present in the Mine area include the following flow regimes:

- A shallow flow regime located in an active layer (seasonally thawed) near the ground surface and above permafrost; and
- A deep groundwater flow regime beneath the base of the permafrost.

From late spring to early autumn, when temperatures are above 0˚C, the shallow active layer thaws. Within the active layer, the water table is projected to be a subdued replica of topography. Groundwater in the active layer flows to local depressions and ponds that drain to larger waterbodies. The talik beneath large waterbodies will be open. The open talik will connect to the deep groundwater flow regime beneath the permafrost.

Elongated waterbodies with terraces and a width of 340 to 460 m or greater are expected to have open taliks extending to the deep groundwater flow regime at the Mine. Meliadine Lake and Lake B7 are likely to have open taliks connected to the deep groundwater flow regime (Golder, 2012a). No impact is expected to Lake B7 by mine activities.

SECTION 3 • ORE STORAGE DEVELOPMENT

3.1 Mine Development Plan

The Mine Plan and key mine development activities, including water management, are currently used concurrently with the OSMP.

The previous Water Licence (NWB, 2021) authorized Agnico Eagle to mine the Tiriganiaq deposit with two open pits and one underground operation. The 2024 Water Licence Amendment extends the Life of Mine to 2031 with the open pit mining of F Zone, Wesmeg, Pump, and Discovery deposits.

Mining facilities on surface include a plant site and accommodation buildings, ore stockpiles, a tailings storage facility (TSF), waste rock storage facilities (WRSFs), a water management system that includes collection ponds, water diversion channels, retention dikes/berms, and a series of water treatment plants.

The current Mine Plan is expected to produce approximately 37.5 Mt of ore over the mine life. The ore will be milled in the process plant during mine operation at a feeding rate of approximately 8,500 tonnes per day (tpd). The general mine site layout plan is shown on Figure 3.1, while Table 3.1 provides the key mine development activities and sequence.

Table 3.1: Key Mine Development Activities and Sequence

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032-2038	2039-2048
Mining														
Tiriganiaq Deposit Open Pit														
Tiriganiaq Underground														
Pump Deposit Open Pit														
Wesmeg Deposit Open Pit														
F Zone Deposit Open Pit														
Discovery Deposit Open Pit														
Monitoring														
Closure														
Post-Closure														

Table 3.2 summarizes the schedule and quantities of ore to be mined from the open pit and underground mining operations.

Table 3.2: Summary of Ore Production Schedule and Bank Quantities

Year	Mine Year	Underground	Tiriganiaq Pits	Wesmeg Pits	Pump Pits	F Zone Pits	Discovery Pit	Total
		Ore (t)	Ore (t)	Ore (t)	Ore (t)	Ore (t)	Ore (t)	Ore (t)
2019*	Yr -6	1,108,666						**1,108,666**
2020*	Yr -5	1,293,507	109,392					**1,402,899**
2021*	Yr -4	1,445,614	514,930					**1,960,544**
2022*	Yr -3	1,345,975	432,859					**1,778,834**
2023*	Yr -2	1,358,913	366,731					**1,725,644**
2024*	Yr -1	1,463,000	561,000					**2,024,000**
2025	Yr 1	1,492,000	705,000		220,000			**2,417,000**
2026	Yr 2	1,513,000	379,000	393,000	52,000			**2,337,000**
2027	Yr 3	2,470,000	2,503,000	313,000				**5,286,000**
2028	Yr 4	2,479,000	1,379,000	718,000	54,000			**4,630,000**
2029	Yr 5	2,470,000	144,000	539,000	459,000	345,000	487,000	**4,444,000**
2030	Yr 6	2,470,000	169,000	59,000	30,000	116,000	730,000	**3,574,000**
2031	Yr 7	2,470,000	484,000	437,000		218,000	1,217,000	**4,826,000**
Total (t)		**23,380,000**	**7,748,000**	**2,459,000**	**815,000**	**679,000**	**2,434,000**	**37,515,000**

* End of year total mined values

SECTION 4 • ORE STORAGE MANAGEMENT

A portion of high-grade ore produced from underground and open pit operations will be trucked directly to the crusher located at the south end of the process plant. The crushed ore will be transported to the ore bin and then to the process plant via a covered conveyor system. The rest will be stored in stockpiles and milled when needed, prioritising highest grade first. Marginal grade will be milled during the last years of operation. There will be no ore stockpiles remaining at mine closure.

4.1 Ore Storage Locations

4.1.2 OP2 Stage 2

As described in the original OP2 design report (Agnico Eagle 2018), the ore storage facilities are being constructed in two stages (Stage 1 and Stage 2) to mitigate high initial construction costs associated to infrastructure not required until later in the Life of Mine and to better adapt to potential future adjustments in estimated annual volumes, the ore storage facilities will be constructed in stages.

Stage 1 was previous constructed as described in the As-Built Report submitted to the NWB in July 2020.

The detailed design report and IFC construction drawings for OP2 Stage 2 (Agnico Eagle, 2022a) were approved by the NWB June 20th, 2022. Construction of OP2 Stage 2 occurred throughout 2022 as material became available. OP2 Stage 2 is located southeast from OP2 Stage 1 as shown in Figure 3.1.

4.1.3 Temporary Ore Storage

Currently, underground ore recovered from above Level 250 is brought to the surface through Portal 1 and temporarily stored within OP1. The ore is then loaded by surface equipment and moved to OP2 and/or the primary crusher.

As part of the 2024 Water Licence Amendment, there will be new temporary ore stockpiles adjacent to the pits at Pump, F Zone, and Discovery. The stockpiles are being added to facilitate ore handling and increases productivity of mine fleet which allows for more efficient equipment to transport the ore on a long distance (e.g., specific site to mill). Ore will be segregated by provenance and by ore grade.

4.3 Design Parameters

4.3.1 OP2 Stage 1

The as-built characteristics of OP2 Stage 1 are presented in Table 4.1.

Table 4.1: As-Built Parameters of OP2 Stage 1

Parameter	As-Built Values
Pad thickness (m)	0.35
Maximum elevation (m)	71.7
Grade towards Channel 1 (%)	1.14
Average side slopes for pad (H:V)	2.3:1 (23.4°)
Surface area (m^2)	103,179
Volume of rockfill (m^3)	107,798

4.3.2 OP2 Stage 2

The as-built characteristics of OP2 Stage 2 are presented in Table 4.2.

Table 4.2: As-built Parameters for OP2 Stage 2

Design Parameter	As-built Value
Minimum Pad thickness (m)	2.3
Grade towards CP1 (%)	1.4
Average side slopes for pad (H:V)	1.8:1
Surface area (m^2)	69,400
Volume of rockfill (m^3)	198,000

4.3.3 Ore Stockpiles

The ore stockpiles are temporary structures and small compared to the WRSFs. Based on the stability and thermal analyses completed for the WRSFs during detailed design and experience with similar structures at other mine sites (i.e. Meadowbank Mine), the ore stockpiles will have an acceptable factor of safety against potential slope failure. A typical cross section of an ore stockpile is provided in Figure 4.1. Key design parameters for the ore stockpiles are summarized in Table 4.3.

Dividing OP2 Stage 1 into four stockpiles and maintaining a 15 m distance between the stockpiles provides enough storage for approximately 1.26 M tonnes, or 672 800 m^3 of ore. OP2 Stage 2 provides enough storage for approximately 1.09 M tonnes, or 580,000 m^3 of ore.

Table 4.3: Design Parameters for Ore Stockpiles

Parameter	Value
Bench width from the crest of the pad to the toe of the first lift of the ore (m)	5
Thickness of first lift of ore (m)	5
Bench width from the crest of the first lift to the toe of the second lift (m)	10
Approximate maximum thickness of the second lift of ore (m)	7
Assumed side slopes for ore (H:V)	1.3:1
Maximum elevation of any ore stockpile above sea level (m)	81
Assumed dry density of ore (t/m^3)	1.88

4.4 Ore Stockpiling Procedure

Depending on the development schedule of the underground and open pit mining operations, the ore will either be transported directly to the mill and crusher for processing or will be temporally stockpiled at one of the designated ore stockpiles on OP2 (Stage 1 / Stage 2) for subsequent processing.

Table 4.4 presents the planned evolution of ore stockpiles at OP2 (Stage 1 / Stage 2), together with their maximum storage tonnages shown in bold text.

Table 4.4: Evolution of Ore Stockpiles at OP2 (Stage 1 / Stage 2)

Year	Mine-Year	Stockpile at Year End
2019*	Yr -6	142,000
2020*	Yr -5	119,000
2021*	Yr -4	365,000
2022*	Yr -3	387,000
2023*	Yr -2	216,000
2024*	Yr -1	323,000
2025	Yr 1	460,000
2026	Yr 2	424,000
2027	Yr 3	2,607,000
2028	Yr 4	4,126,000
2029	Yr 5	5,466,000
2030	Yr 6	5,938,000
2031	Yr 7	7,661,000
Maximum tonnes (t)		**7,661,000**
Maximum volume (m^3)		3,725,000

* End of year total mined values. 2019 to 2023 values from Ore Storage Management Plan V6 (March 2024).

SECTION 5 • WATER MANAGEMENT ASSOCIATED WITH ORE STORAGE

The water management objectives for the mine are to minimize potential impacts to the quantity and quality of surface water at the site.

OP2 is located within the catchment of CP1, as shown in Figure 3.1. The pad was sloped during construction to direct any contact water towards Channel 1 where it will be diverted into CP1 via the Culvert 3 system. The collected contact water is treated by the EWTP prior to discharge to Meliadine Lake.

The temporary stockpile runoff will report to the surface collection pond by the associated deposit.

Detailed information on the management of runoff water and seepage from the ore stockpiles and construction of infrastructure associated with ore management are described in the *Water Management Plan.*

SECTION 6 • DUST MANAGEMENT ASSOCIATED WITH ORE STORAGE

The potential sources of dust related to ore management during construction, operation and closure include:

- Site preparation prior to placement of waste materials i.e., stripping, excavation and/or placement of storage pad;
- Vehicle traffic dislodging fine particles from the surface of the storage pad and associated haul roads;
- Ore handling and transfer - loading, hauling, unloading and placement; and
- Ore sorting, screening and crushing.

Dust suppression measures, which are considered to be typical of the current mine practices (i.e. Meadowbank Complex) and consistent with best management practices, will be considered through design, operation and closure phases to control the dust.

Sources of dust related to ore management and suppression measures are detailed in the Dust Management Plan.

SECTION 7 • RECLAMATION AND CLOSURE OF THE ORE STOCKPILES

The detailed Mine closure and reclamation activities are provided in the Interim Closure and Reclamation Plan.

Final closure activities of the ore management facilities will commence at the end of mining operations in 2031. Ore will not remain in the ore stockpiles following the cessation of operations; it will all be processed. Key mine development activities during the closure process include:

- Place final closure cover on top of tailings surface
- Finalize placement of Discovery WRSF cover system
- Decommission non-essential mine infrastructure and support buildings
- Post-closure monitoring and maintenance

Breaching of dikes and berms will be completed at the end of closure once water quality objectives are met.

In the event of a short-term temporary closure, the water and dust management strategies for the ore stockpiles will be the same as used during active mine operation. In the event of a long-term temporary closure, water control structures will be maintained as required.

SECTION 8 • MONITORING PROGRAM

This section presents a summary of the monitoring programs that will be carried out during construction and operation related to ore storage management. The monitoring program presented here includes; stability and deformation, ground temperature, and annual inspections per the Type A Water Licence 2AM-MEL1631. The detailed information on monitoring of runoff and seepage from the ores stockpiles is described in the *Water Management Plan*. General monitoring is subject to change as directed by an Inspector, or by the Licensee, subject to approval by the NWB.

Table 8.1 summarizes the monitoring activities for the ore management.

Table 8.1 Ore Stockpile Monitoring Activities

Monitoring Component		Monitoring Frequency	Reporting
Verification Monitoring	Quantities of ore processed	Continuously	Monitoring data will be used by Agnico Eagle internally.
	Routine visual inspections of ore stockpiles	Daily during active ore placement; monthly after placement	
	Elevation and geometry survey	Annually	
	Seepage collection and monitoring	Monthly over the open water season	
General Monitoring	Quantities of ore placed into stockpiles	Monthly	Monitoring data will be reported to the Regulators in the Annual Report or Annual Inspection Report
	Dust monitoring related to ore storage	Governed by Air Quality Monitoring Plan	
	Geotechnical inspection by qualified Geotechnical Engineer	Annually or more frequent at the request of an Inspector	

8.1 Verification Monitoring Program

Verification monitoring results will be used by Agnico Eagle in the management of ore stockpiles and production. The following verification monitoring data will be collected, compiled and managed internally:

- The tonnage of ore processed through the mill is monitored and reported internally on a continuous basis. These results are crosschecked with the tailings production rate from the filter press.
- During active development of each stockpile, site staff will carry out daily visual inspections in relation to the performance and condition of each structure. When placement activity ceases on an interim or seasonal basis, the inspection frequency will shift to monthly.
- The maximum heights of the ore stockpiles are estimated to be approximately 15 m above the pad. During operations, an annual elevation survey of the stockpiles will be performed to estimate overall volume placed and provide input to the operation plan.

- Surface runoff and seepage from the ore stockpiles will be monitored during the construction and operation phases monthly over the open water season. Additional inspections will be carried out after rainfall events and during freshet. The detailed information on the monitoring of surface runoff and seepage from the ore stockpiles is described in the *Water Management Plan*.

8.2 General Monitoring Program

The following general monitoring data will be reported to the NWB through either the Annual Report or an Annual Inspection Report:

- Monthly quantities of the ore placed into the stockpiles during mine operation.
- Dust related to ore management is not expected to be an issue by employing the dust suppression measures presented in the Dust Management Plan. Air quality at the mine site will be monitored during construction, operation, and closure through air quality monitoring stations and reported annually.
- The performance of the ore stockpiles will be inspected and assessed during the annual geotechnical site inspection by a geotechnical or civil engineer registered in Nunavut. The visual assessment and recommended actions to be taken related to the stockpiles will be summarized in the Annual Inspection Report. Inspections may occur more frequently at the request of the Inspector. Records of all inspections will be maintained for the review of the Inspector upon request.

The results from general monitoring program related to tailings management will be reported to the Regulators in the Annual Report or in the Annual Geotechnical Inspection Report.

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APPENDIX A • FIGURES

Figure 1.1 General Mine Site Location Plan

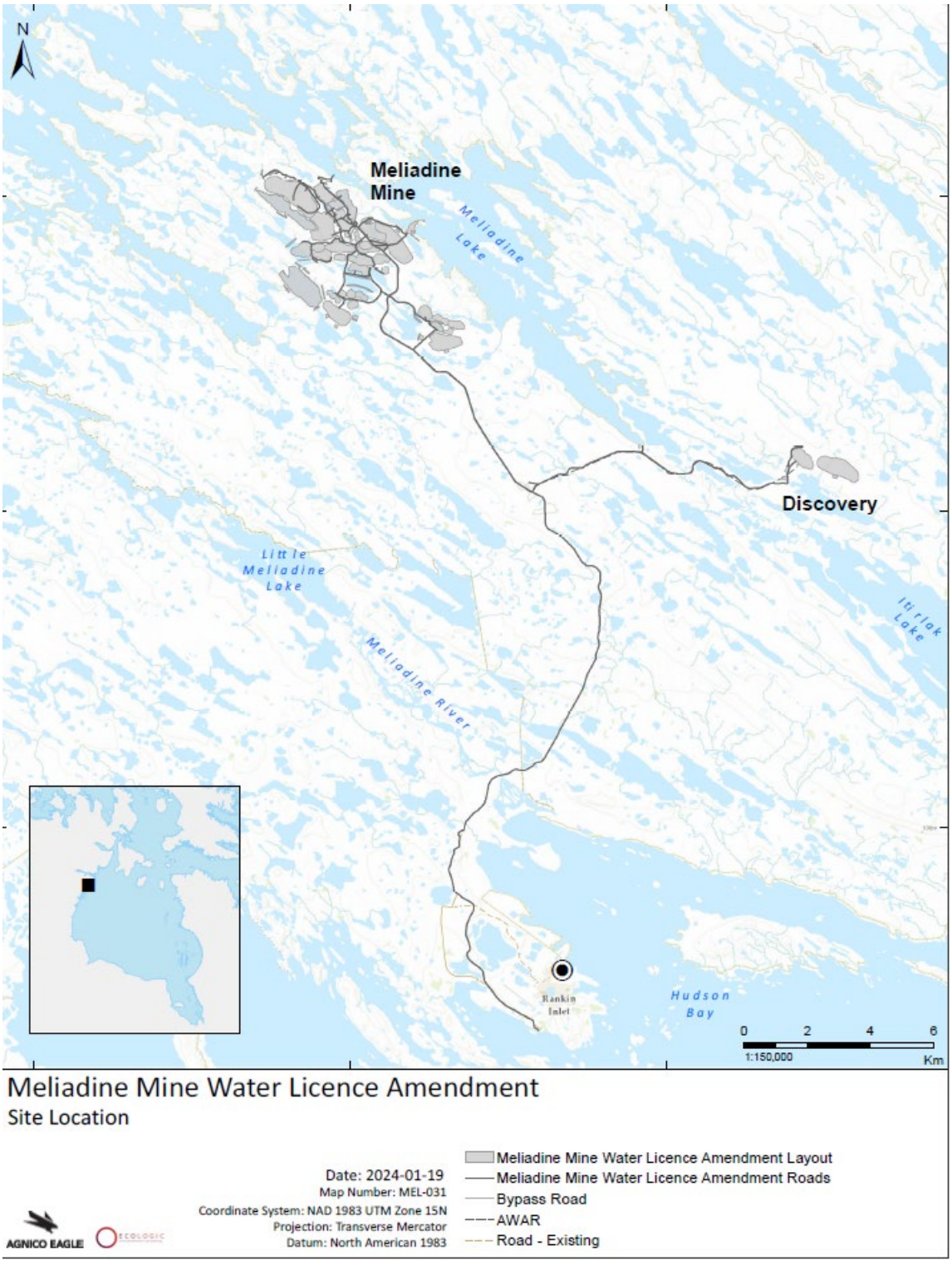


Figure 3.1 General Mine Site Location Plan

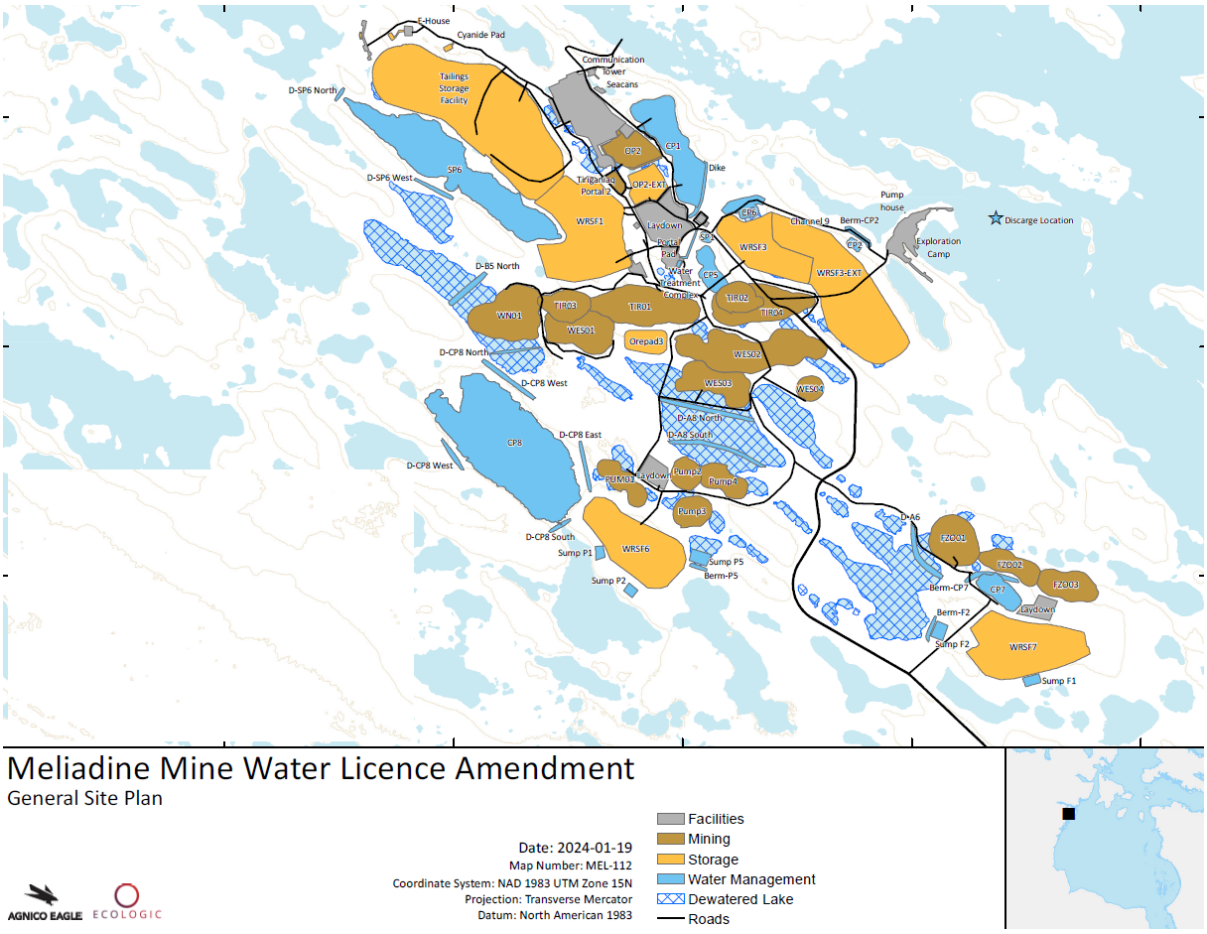
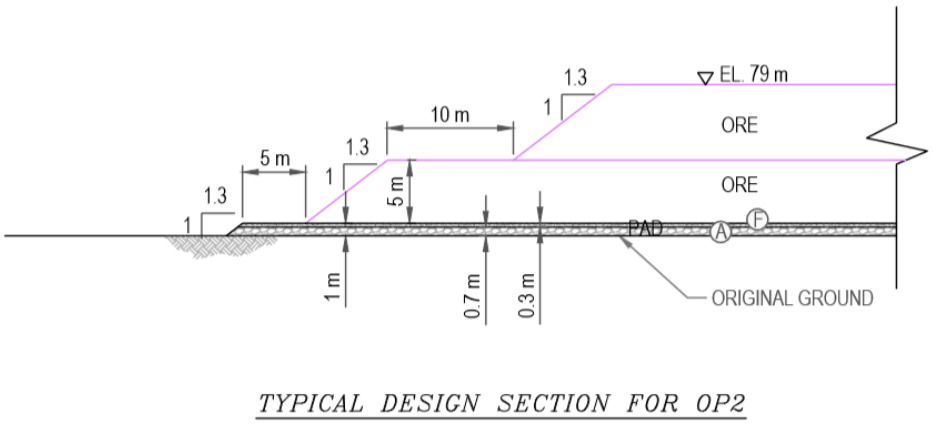


Figure 4.1 Ore Stockpile Typical Section



TYPICAL DESIGN SECTION FOR OP2

Figure 4.2 OP2 Stage 1 As-Built

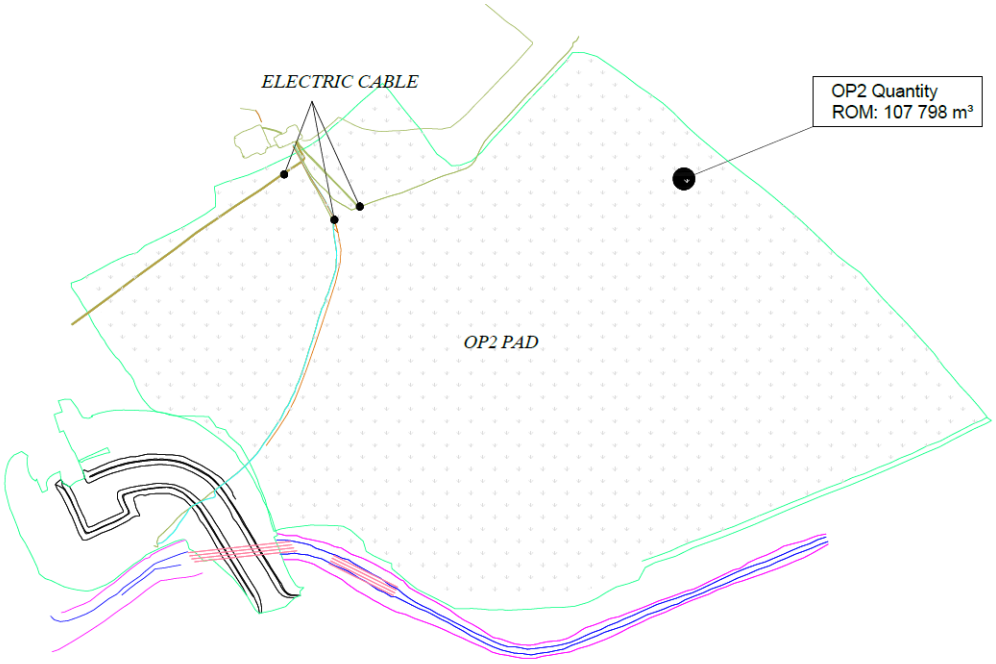


Figure 4.3 OP2 Stage 2 Preliminary As-Built