

Appendix 3 : 2023 Mine Plan

Production Lease KVPL11D01
Meliadine Mine Plan



AGNICO EAGLE

MELIADINE GOLD PROJECT

2023 Mine Plan

Production Lease KVPL11D01

Prepared by:

Agnico Eagle Mines Limited

EXECUTIVE SUMMARY

Condition 5.09 of the Kivalliq Inuit Association (KIA) Production Lease KVPL11D01 (June 2017) for the Meliadine Gold Project (the Mine or Project) states:

“At least six months prior to the commencement of Commercial Production, AEM shall deliver to KIA its Mine Plan for the balance of the calendar year and the following calendar year, and thereafter on or before May 31st in each year of the Term its Mine Plan for the next calendar year, detailing at least the following:

- (a) A description of the activities and work that AEM proposes to perform in that year on the Leased Land and the areas within the Leased Land that such activities and work are expected to occur, including a listing of proposed construction and infrastructure changes, additions and removals, and major equipment to be brought onto the Leased Land;*
- (b) The waste management plan for the Project; and*
- (c) A description of the topographical features and any natural or manmade features, structures, works and waters that may be affected”.*

This document presents the 2023 Annual Mine Plan for the Mine. The Mine began the operation phase in Q2 2019, and thus, will be entering its fifth year of operations. In addition to production activities throughout the year, a number of construction projects will be continued or undertaken near the main mine site area in 2023. The dry stacked tailings will be deposited in both Cell 1 and Cell 2 throughout the year. Waste rock will be placed in Waste Rock Storage Facility 1 (WRSF1) until its design capacity is reached, and both waste rock and overburden will be placed in Waste Rock Storage Facility 3 (WRSF3). Mine waste management will follow the operation schedule as resumed in this plan on a yearly basis. Environmental monitoring (wildlife, aquatic effects, groundwater, geochemistry, noise, air, etc.) will continue through 2023 in support of all operational undertakings at the Mine as required by the Nunavut Water Board (NWB) Type A Water Licence 2AM-MEL1631, Nunavut Impact Review Board (NIRB) Project Certificate No. 006 and Metal and Diamond Mining Effluent Regulations (MDMER).

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1. Introduction

Agnico Eagle Mines Limited (Agnico Eagle) is operating the Meliadine Gold Mine, located approximately 25 kilometres (km) north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. Situated on the western shore of Hudson Bay, the mine site is located on a peninsula between the east, south, and west basins of Meliadine Lake (63°1'23.8" N, 92°13'6.42"W). The Meliadine Gold Mine began the operation phase of the project in Q2 2019, and thus, will be entering its fourth year of operations. In addition to production activities throughout the 2023 season, several construction projects will be undertaken near the main mine site area. The dry stacked tailings will be deposited in both Cell 1 and Cell 2 throughout the year. Waste rock produced will be placed in both Waste Rock Storage Facility 1 (WRSF1) and Waste Rock Storage Facility 3 (WRSF3), while the overburden will be placed in WRSF3.

The following sections outline the exploration, construction, operation, and environmental activities planned for 2023 at the Meliadine Gold Mine, conducted in accordance with Production Lease KVPL11D01.

2. Planned Exploration Activities

The 2023 exploration program for the Meliadine Gold Project area will be conducted by the Exploration Division of Agnico Eagle Mines Ltd (Agnico Eagle). Consequently, this work will be performed under KIA Land use Licence KVL302H268.

3. Planned Construction Activities

In 2023, Agnico Eagle is planning to conduct the following activities under production lease KVPL11D01 (Refer to the general site layout in Figure 1):

- Completion of the Water Treatment Complex (WTC);

- Completion of a second grinding thickener tank;
- Completion of the Power plant expansion;
- Completion of the CIL/Filter Press expansion;
- Completion of the cement handling facility at the Paste Plant;
- Rehabilitation of different infrastructures on site: Channel 3, CP6 ramp extension, TSF West thermal fill, CP3 thermal fill, CP4 thermal fill, Channel 5 rebuild and fill, D-CP1 channel, CP2 thermal fill,
- Construction of the Operations Landfill (Stage 4) Berm Raise;
- Construction of the Channel 2 Berm, pending NWB approval;
- Construction of Containment Pond 6 ramp redesign;
- Continuation of WRSF1;
- Continuation of WRSF3;
- Continuation of Tiriganiaq Open Pit 1;
- Pending regulatory approvals:
 - Widening of the AWAR from km 6 to 19.6;
 - Construction of the waterlines for discharge to sea;
 - Construction of the haul road to Pump.

4. Planned Production Activities

In carrying out the activities described in this Mine Plan, Agnico Eagle will comply with the terms and conditions of the Meliadine Inuit Impact and Benefit Agreement (IIBA) amended, and restated as of February 17, 2017, between Agnico Eagle and the Kivalliq Inuit Association.

In 2023, Agnico Eagle mining plan is to operate Tiriganiaq underground mine and Tiriganiaq Open Pit 1 at the Meliadine mine site. A total of 2,251,867 tonnes of rock will be mined underground. The mine plan consists of hauling 385,190 tonnes of waste rock, 74,627 tonnes of marginal and 1,397,948 tonnes of ore to surface. Furthermore, 418,474 tonnes of tailings will be returned underground, and 394,102 tonnes of waste will remain underground as backfill.

From the Tiriganiaq Open Pit 1, a total of 5,370,500 tonnes will be extracted over the year. The mine plan consists of hauling 2,191,060 tonnes of overburden, 2,781,571 tonnes of waste rock and 397,869 of ore.

5. Waste Management Plan for the Project

Waste rock and overburden will be trucked to the waste rock storage facilities (WRSFs) until the end of the mine operation, with distribution according to the operation schedule.

In 2023, 1,752,000 tonnes of solid tailings will come from the Mill: 418,474 tonnes of solid tailings will be used as underground backfill and 1,333,526 tonnes will be placed in the dry stacked within the Tailings Storage Facility (TSF).

Table 1: 2023 Quantities, and Distribution of Tailings

Year	Mine Year	Tailings Solids from Mill (t)	Tailings Solids to be Used as Underground Backfill (t)	Tailings Solids to be Placed in Dry Stacked TSF (t)
2023	Yr 4	1,752,000	418,474	1,333,526

Table 2: 2023 Mine Production Schedule

UNDERGROUND	2023				
Underground	Q1	Q2	Q3	Q4	TOTAL
Ore Tonnage	348,990	348,692	342,275	357,991	1,397,948
Marginal Ore Tonnage	17,269	16,893	18,225	22,241	74,627
Waste Tonnage Hauled to Surface	94,092	99,602	98,216	93,280	385,190
Waste Tonnage to Remain Underground as Backfill	89,278	103,536	101,692	99,596	394,102

OPEN PIT	Q1	Q2	Q3	Q4	TOTAL
TIR_01					
Overburden Tonnage	1,504,045	584,567	52,447	50,000	2,191,060
Waste Rock Tonnage	116,673	598,903	1,069,146	996,849	2,781,571
Ore Tonnage	39,282	142,530	100,407	115,651	397,869

Table 3: 2023 Quantities, and Distribution of Waste Rock

Year	Mine Year	Total Waste Rock from Mine Operation (t)	Utilization of Waste Rock (t)			Waste Rock to be Place in WRSFs(t)	
			Surface Construction/ Thermal Protection	Rockfill for Underground Backfill	TSF Closure Cover	WRSF1	WRSF3
2023	Yr 4	3,560,863	1,211,026	394,102	262,033	552,251	1,141,452

Table 4: 2023 Quantities, and Distribution of Overburden

Year	Mine Year	Total Overburden from Mine Operation (t)	Overburden Stockpile for TSF Closure Cover (t)	Overburden to be Placed in WRSFs (t)	
				WRSF1	WRSF3
2023	Yr 4	2,191,060	0	0	2,191,060

6. Major Equipment to be Brought onto the Leased Land

Shown in table 5 below is the preliminary list of major equipment to be brought in 2023.

Table 5: Major Equipment to be Brought onto the Leased Land

MacLean	MacLean MEM-975 (mirror 65BOL12) - New JDE BOL14
Sandvik	Sandvik LH517i Scoop - New JDE SCO15
Sandvik	Sandvik DD422i Jumbo - New JDE JUM09
Sarliaq	Landcruiser HZJ79 Mancarrier, BTE-815 (8-P)

