



AGNICO EAGLE

Meadowbank Complex

Whale Tail Project – Waste Rock Management Plan

**JULY 2020
VERSION 6**

EXECUTIVE SUMMARY

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is developing the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to continue mine operations and milling at Meadowbank Mine. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, permitting Agnico Eagle to expand and extend the Whale Tail Pit operations to include a larger Whale Tail Pit, development of the IVR Pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine.

The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land (IOL) approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km north of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit would be mined as two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

The open pit mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 7 years of mine operations, 25 years of closure, and the post closure period. On September 30th, 2019 commercial production began at the Whale Tail Pit. The mine, mined by truck-and-shovel operation, will produce 23.5 million tonnes (Mt) of ore, 167.8 Mt of waste rock, and 11.3 Mt of overburden waste. The Expansion Project includes mining an additional 15.2 million tonnes of ore from the expanded Whale Tail Pit, the IVR open pit and underground operations. This expanded resource will be extracted over an approximately four-year period. In total, the resources for the Whale Tail project have been expanded and extended over approximately a seven-year period from 2019 to 2025.

According to the Whale Tail Pit Life of Mine (LOM) calculation, the addition of the Whale Tail Pit Project to the actual Meadowbank LOM (LOM 2015) will generate an addition of approximately 22.1 Mt (dry) of tailings to the Meadowbank Tailings Storage Facility (TSF) and In-Pit Tailings Deposition sites for a total of 49.2 Mt.

Project mining facilities include accommodation buildings; ore stockpiles; overburden stockpiles; waste rock storage facilities (WRSFs) areas planned to receive waste rock and waste overburden; a temporary waste rock facility to receive underground waste rock, a water management system that includes collection ponds, water diversion channels, and retention dikes/berms; and a Water Treatment Plant.

One area, located north-west of the Whale Tail Pit, has been identified as the Whale Tail WRSF and a second, located east of the IVR Pit, has been identified as the IVR WRSF for waste rock placement. Waste rock and overburden will be trucked to the Whale Tail WRSF and IVR WRSF until the end of operations, with distribution according to the operations schedule. Waste rock and overburden will be co-disposed in one of the two piles constituting the Whale Tail WRSF and IVR WRSF areas. All

waste rock material will be sampled and tested during operations to verify their ARD and ML potential in support of waste segregation. Waste rock and overburden produced during mining will be used in the construction of the mine site infrastructure, while some of the non-potentially acid generating (NPAG) and non-metal leaching (NML) waste rock will be put aside for capping at closure. Because of the large material requirement for construction and the NPAG/NML rock cover, as well as the importance for adequate disposal to meet closure objectives, waste rock management will be a key component of the mining planning for the Whale Tail Project.

The Underground WRSF, located east of the Whale Tail Pit, is a temporary facility as all mine waste rock from underground operations will be temporarily stored there before being returned underground as backfill material.

Tailings from the Project will be stored in the Meadowbank TSF and the In-Pit Tailings Deposition sites. The management, operation, and monitoring of the TSF is regulated under Agnico Eagle's existing Type A Water Licence 2AM-MEA1530. In summary, the TSF consists of a North Cell and South Cell located within the basin of the former north-west arm of Second Portage Lake previously dewatered to allow mining in the Portage Pit. To store tailings from processing of the Whale Tail Pit ore, Agnico Eagle maximized storage in the South Cell, and constructed internal dike structures to store additional tailings within the current footprint of the North Cell. In-Pit Tailings Deposition commenced at Meadowbank in July 2019 and will be the method used to store the remaining tailings produced by the Project. Additional details on tailings management is presented in the Meadowbank Waste Management Plan. The Meadowbank Tailings Storage Facility Management Plan for Whale Tail Pit - Version 2_NIRB (Agnico Eagle, 2018b) outlines the required management of tailings produced through the Whale Tail Pit Project (2019 to 2026).

The generation of metal leachate in acidic drainage is a concern for mining projects. Climate control strategies rely on cold temperatures to reduce the rate at which oxidation occurs. The low net precipitation in permafrost regions limits infiltration of water into waste rock and tailings disposal areas. Consequently, the climate of the Project area will act as a natural control to reduce the production of acid mine drainage and metal leachate. Climate control strategies are best applied to materials placed at a low moisture content to reduce the need for additional controls on seepage and infiltration. This strategy is effective for waste rock in arid climates such as the one of the Whale Tail Project.

The WRSFs and the ore stockpiles were designed to minimize the impact on the environment and to consider geotechnical and geochemical stability. The surface runoff and potential seepage water from these facilities will be collected in water collection ponds as part of the water management strategy. If water quality does not meet the discharge criteria as per the Whale Tail Water Licence requirement, the collected water will be treated prior to being discharged to the outside environment during operation and closure.

Closure of the WRSFs will begin when practical as part of the progressive reclamation program. The Whale Tail WRSF and IVR WRSF will be covered with non-acid generating and non-metal leaching waste rock to promote freezing as a control strategy against acid generation and migration of contaminants. Thermistors will be installed within the Whale Tail WRSF and IVR WRSF to monitor permafrost development. Thermal and water quality monitoring will be carried out during all stages of the mine life to demonstrate geotechnical stability and the safe environmental performance of the facilities. If any non-compliant conditions are identified, then maintenance and planning for corrective measures will be completed in a timely manner to ensure successful completion of the Whale Tail Pit Interim Closure and Reclamation Plan.

This Plan has been updated for the Expansion Project following the Nunavut Impact Review Board (NIRB) review process and the Nunavut Water Board (NWB) review process.

DOCUMENT CONTROL

Version	Date (YM)	Section	Page	Revision
1	January 2017	All	-	Comprehensive plan for the Whale Tail Pit project
2	May 2018	All	-	Comprehensive review of the plan for the Whale Tail Pit project
3	September 2018	All	-	Comprehensive review of the plan for the Whale Tail Pit project
4	October 2018	2.5, 3.2, 9.3	7, 11, 29	Updated to align with recommendations issued by CIRNAC and ECCC in October 2018
5	March 2020	All	-	Comprehensive review of the plan for the Whale Tail Pit project
6	July 2020	All	-	Waste Management Plan for the Whale Tail Pit – including Expansion Project

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ACRONYMS

Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
Approved Project	Whale Tail Pit and Haul Road
ARD	Acid Rock Drainage
CCME	Canadian Council of Ministers of the Environment
Expansion Project	Whale Tail Pit – Expansion Project
FEIS	Final Environmental Impact Statement
IOL	Inuit Owned Land
IPCC	Intergovernmental Panel on Climate Change
LOM	Life of Mine
ML	Metal Leaching
NIRB	Nunavut Impact Review Board
NML	Non-Metal Leaching
NPAG	Non-Potentially Acid Generating
NWB	Nunavut Water Board
PAG	Potentially Acid Generating
PGA	Peak Ground Acceleration
SWD	Stormwater Dike
TSF	Tailings Storage Facility
WRSF	Waste Rock Storage Facility
WTP	Water Treatment Plant

UNITS

%	percent
°C	degrees Celsius
°C/m	degrees Celsius per metre
g	gram
ha	hectare
km	kilometre(s)
km ²	square kilometre(s)
m	metre
masl	metre above sea level
mbgs	metre below ground surface
mm	millimetre
m ³	cubic metre(s)
m ³ /hr	cubic metre(s) per hour
Mm ³	million cubic metre(s)
Mt	million tonne(s)
t	tonne
t/day	tonne(s) per day
t/m ³	tonne(s) per cubic metre

SECTION 1 • INTRODUCTION

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is operating the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to continue mine operations and milling at Meadowbank Mine. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, permitting Agnico Eagle to expand and extend the Whale Tail Pit operations to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine.

The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land (IOL) approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit is mined as two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, and ore is hauled to the approved infrastructure at Meadowbank Mine for milling.

The open pit mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 7 years of mine operations, 25 years of closure, and the post closure period. On September 30th, 2019 commercial production began at the Whale Tail Pit. The mine, mined by truck-and-shovel operation, will produce 23.5 million tonnes (Mt) of ore, 167.8 Mt of waste rock, and 11.3 Mt of overburden waste. The Expansion Project includes mining an additional 15.2 million tonnes of ore from the expanded Whale Tail Pit, the IVR Pit and underground operations. This expanded resource will be extracted over an approximately four-year period. In total, the resources for the Whale Tail project have been expanded and extended over approximately a seven-year period from 2019 to 2025.

The general mine site location for the Project is shown in Figure 1.1. The mine development will include the following major infrastructure:

- industrial area (camp and garage)
- crusher
- ore stockpiles
- waste rock and overburden storage facilities
- landfill
- haul and access roads
- open pit mines
- underground mine
- water management facilities (attenuation ponds, dikes, etc.).

This Plan has been updated for the Expansion Project following the Nunavut Impact Review Board (NIRB) review process and the Nunavut Water Board (NWB) review process.

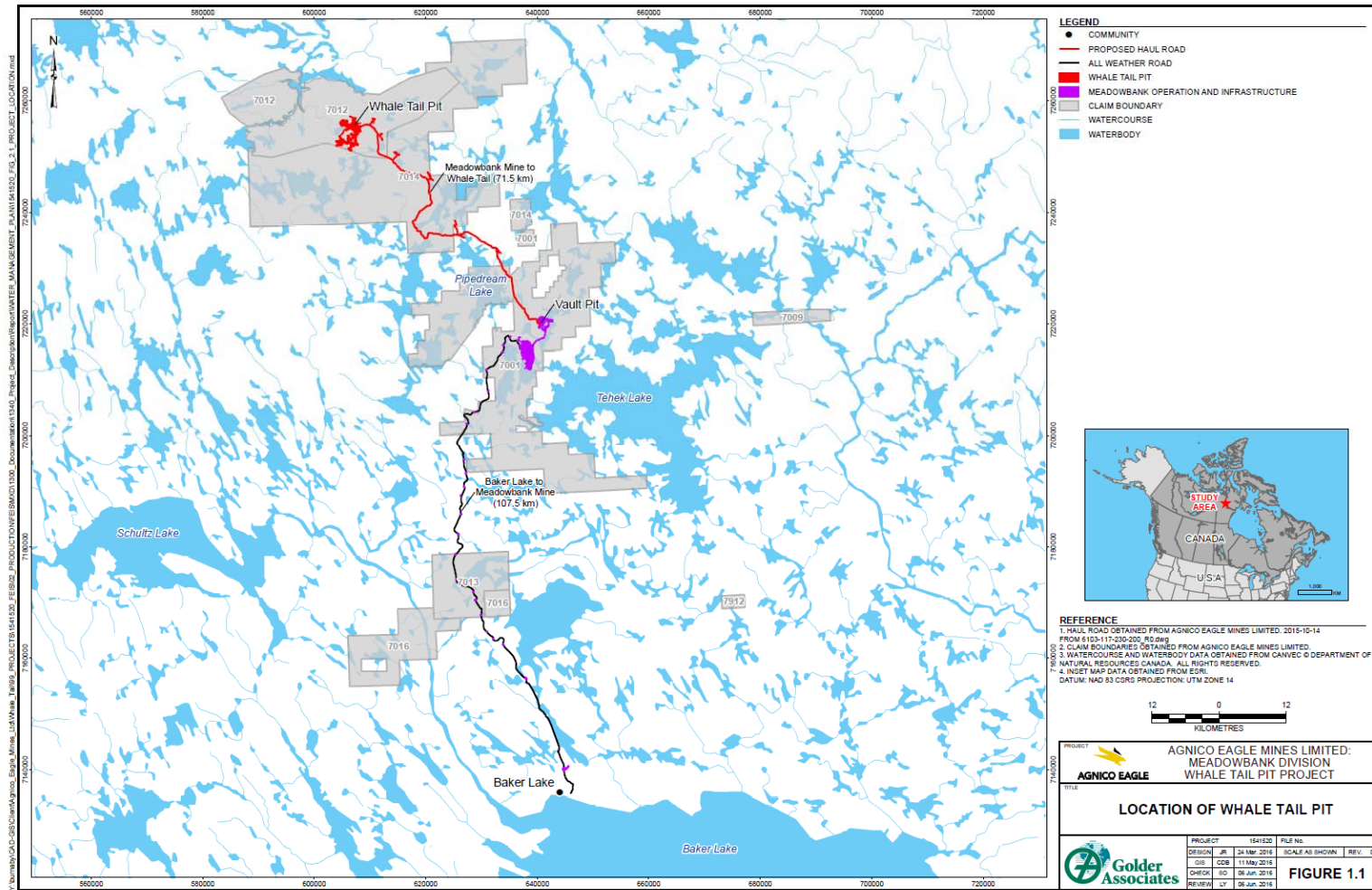


Figure 1.1 Location of Whale Tail Project

This document presents the Waste Rock Management Plan (the Plan) and is submitted as per Part B, conditions 14 and 15 of the NWB Whale Tail Type A Water License 2AM-WTP1830. The purpose of the Plan is to provide consolidated information on the management of ore stockpiled on site, waste rock and overburden, including strategies for runoff and dust control and monitoring programs for the storage facilities.

Tailings from the Project will be stored in the Meadowbank TSF and the In-Pit Tailings Deposition sites. The management, operation, and monitoring of the TSF is regulated under Agnico Eagle's existing Type A Water Licence 2AM-MEA1530. The Meadowbank Tailings Storage Facility Management Plan for Whale Tail Pit - Version 2_NIRB (Agnico Eagle, 2018b) outlines the required management of tailings produced through the Whale Tail Project (2019 to 2026).

As per the Nunavut Impact Review Board (NIRB) Whale Tail Project Certificate No.008, term and condition 7, the Whale Tail Waste Rock Management Plan was submitted to the NIRB at least 60 days prior to the start of construction of the Waste Rock Storage Facility, with subsequent updates or revisions to the Plan submitted annually thereafter or as may otherwise be required by the NIRB for the life of the Project.

SECTION 2 • BACKGROUND INFORMATION

2.1 Site Conditions

Site layouts are presented in Appendix A.

2.1.1 Climate

Climate characteristics presented herein were extracted from the permitting level engineering report (SNC, 2015).

The Project is in an arid arctic environment that experiences extreme winter conditions, with an annual mean temperature of -11.3 degrees Celsius (°C). The monthly mean temperature ranges from -31.3°C in January to 11.6°C in June, with above-freezing mean temperatures from June to September. The annual mean total precipitation at the Project is 249 millimetres (mm), with 59 percent (%) of precipitation falling as rain, and 41% falling as snow. Mean annual losses were estimated to be 248 mm for lake evaporation, 80 mm for evapotranspiration, and 72 mm for sublimation. Mean annual temperature, precipitation, and losses characteristics are presented in **Error! Reference source not found.1**.

Short-duration rainfall events representative of the Project are presented in Table 2.2, based on intensity-duration-frequency curves available from the Baker Lake A meteorological station (Station ID 2300500) operated by the Government of Canada (2015).

Table 2.1 Estimated Mine Site Monthly Mean Climate Characteristics

Month ^a	Mean Air Temperature (°C) ^a	Monthly Precipitation (mm) ^a			Losses ^a		
		Rainfall (mm)	Snowfall Water Equivalent (mm)	Total Precipitation (mm)	Lake Evaporation (mm)	Evapo-transpiration (mm)	Snow Sublimation (mm)
January	-31.3	0	7	7	0	0	9
February	-31.1	0	6	6	0	0	9
March	-26.3	0	9	9	0	0	9
April	-17.0	0	13	13	0	0	9
May	-6.4	5	8	13	0	0	9
June	4.9	18	3	21	9	3	0
July	11.6	39	0	39	99	32	0
August	9.8	42	1	43	100	32	0
September	3.1	35	7	42	40	13	0
October	-6.5	6	22	28	0	0	9
November	-19.3	0	17	17	0	0	9
December	-26.8	0	10	10	0	0	9
Annual	-11.3	146	103	249	248	80	72

^aSNC (2015). mm = millimetre; °C = degrees Celsius.

Table 2.2 Estimated Mine Site Extreme 24-Hour Rainfall Events

Return Period (Years) ^a	24-hour Precipitation (mm) ^a
2	27
5	40
10	48
25	57
50	67
100	75
1000	101

^a SNC (2015). mm = millimetre.

2.1.2 Permafrost

The mine site is in an area of continuous permafrost, as shown on Figure 2.1. Based on measurements of ground temperatures (Knight Piésold, 2015), the depth of permafrost at the mine site is estimated to be in the order of 425 metres (m) outside of the influence of waterbodies. The depth of the permafrost and active layer will vary based on proximity to the lakes, overburden thickness, vegetation, climate conditions, and slope direction. The typical depth of the active layer is 2 m in this region of Canada. The typical permafrost ground temperatures at the depths of zero annual amplitude (typically at the depth of below 15 m) is approximately -8.0 °C in areas away from lakes and streams. The geothermal gradient measured is 0.02 degrees Celsius per metre (°C/m) (Knight Piésold, 2015). Late-winter ice thickness on freshwater lakes is approximately 2.0 m. Ice covers usually appear by the end of October and are completely formed in early November. The spring ice melt typically begins in mid-June and is complete by early July.

During the Project, thermal assessments have been completed that contribute to the understanding of the permafrost conditions near the Whale Tail Pit, IVR Pit and Underground. The following summarizes the updated understanding of permafrost conditions in the Project Area:

- The depth of the regional permafrost below land was estimated to be on the order of 425 to 495 metres below ground surface (mbgs)
- The IVR Pit, which has a maximum depth of approximately 105 mbgs, is located within the regional permafrost
- Closed talik is present near Whale Tail Pit. The talik is inferred to extend to a depth of 113 m below lake level (152.5 m) and is estimated to thin towards the eastern and western lobes of the lake. Whale Tail Pit extends through this talik and into the underlying permafrost, with the base of the pit located in permafrost. Further to the south and outside of the pit footprint, the closed talik transitions to full open talik with direct connection to the deeper groundwater flow system
- With the formation of a pit lake during closure, permafrost near and beneath Whale Tail Pit is predicted to start melting. After approximately 11 years of closure, the base of the Whale Tail Pit Lake is predicted to be hydraulically connected to the deeper groundwater flow

- system, and after 50 years, the permafrost below the full pit footprint is predicted to have completely melted
- The formation of the IVR Pit Lake during closure is also predicted to melt the underlying permafrost. Unlike Whale Tail Pit, IVR Pit is located within the regional permafrost and it is predicted that it will take approximately 1000 years to fully melt the permafrost below the pit footprint

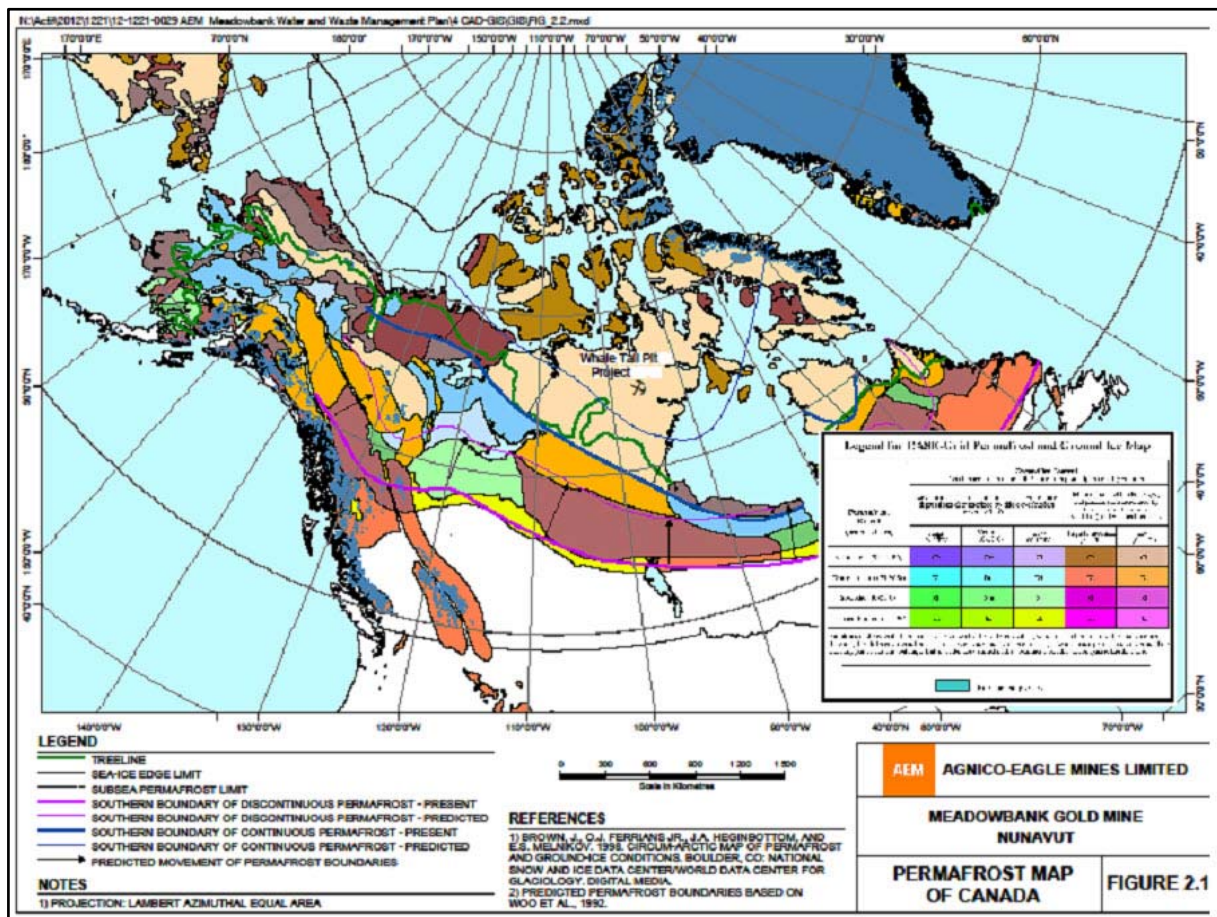


Figure 2.1 Permafrost Map of Canada

2.1.3 Climate Change

Table 2.3 presents a summary of climate change predictions used on a number of northern projects that have been reported in the engineering and scientific literature. Further studies incorporating climate change references will be done using the climate change predictions from the IPCC (Intergovernmental Panel on Climate Change) RCPs (Representative Concentration Pathways) RCP6.

Table 2.3 Estimated Summary of Reported Climate Change Rates Used in Northern Projects Engineering Studies

Reference	Increase in MAAT by Year 2100 (°C)	Notes
Hayley (2004)	4.7	Used in design studies for the Inuvik Regional Health Center. Reported as increase of 0.47°C per decade.
Hayley and Cathro (1996)	5.0	Used for Raglan Dam analyses.
Diavik	3.2	Used for the Processed Kimberlite Containment Facility Design
Burn (2003)	6.0	For use in the Western Arctic for pipeline design projects. Reported as increase of 1.75°C over a 29 year period
Intergovernmental Panel on Climate Change (AR5)	See Figure 2.3	RCP 6.0 to be used as base case

As part of the Intergovernmental Panel on Climate Change's (IPCC) Fifth Assessment Report (AR5), the IPCC adopted new Representative Concentration Pathways (RCPs) to replace the previous emission scenarios of the Special Report on Emission Scenarios (SRES) (IPCC 2013). The four adopted RCPs differ from the SRES in that they represent greenhouse gas concentration trajectories, not emissions trajectories. The four scenarios (RCP2.6, RCP4.5, RCP6.0 and RCP8.5) are named after the radiative target forcing level for 2100, which are based on the forcing of greenhouse gases and other agents and are relative to pre-industrial levels.

The climate change database for the Meadowbank and Whale Tail projects was developed following the recommendations outlined on the Canadian Climate Data and Scenarios (CCDS) website, which is wholly supported by ECCC (CCDS, 2018). The website recommends the use of statistical downscaling to "downscale" a GCM's predictions to a specific location based on historical observations. Statistical downscaling is a two-step process consisting of i) development of statistical relationships between local climate variables (e.g., surface air temperature and precipitation) and large-scale predictors (e.g., pressure fields), and ii) application of such relationships to the output of GCM experiments to simulate local climate characteristics in the future. The Pacific Climate Impact Consortium (PCIC) at the University of Victoria provides statistically downscaled daily temperature and precipitation under the RCP2.6, RCP4.5 and RCP8.5 scenarios for all of Canada at a resolution of approximately 10 km (PCIC, 2018). The second-generation Canadian Earth System Model (CanESM2), developed by the Canadian Centre for Climate Modelling and Analysis (CCCma), was used as the predictor GCM to downscale and make climate change databases representative of site conditions.

Statistical downscaling is limited by the availability of large-scale predictors. Current CCCma CanESM2 model runs are limited temporally to 2100. In order to predict beyond 2100, the radiative forcing trend was applied to the temperature. RCP4.5 and RCP6.0 are expected to stabilize shortly after 2100, while RCP8.5 is expected to continue along the same trend until after 2200.

Temperatures are anticipated to rise at about the same rate (approximately $0.06^{\circ}\text{C}/\text{year}$) for RCP4.5 and RCP6.0 until approximately 2070, after which RCP4.5 estimates a reduction in the temperature increase rate. Under RCP8.5, temperatures are expected to increase at a higher rate (approximately $0.12^{\circ}\text{C}/\text{year}$) for the duration of the modelled period. All three scenarios predict an increase in precipitation with time of approximately $0.5 \text{ mm}/\text{year}$ (75 mm total increase over 150 years) for RCP4.5, $0.6 \text{ mm}/\text{year}$ (90 mm total increase over 150 years) for RCP6.0 and $0.7 \text{ mm}/\text{year}$ (100 mm total increase over 150 years) for RCP8.5.

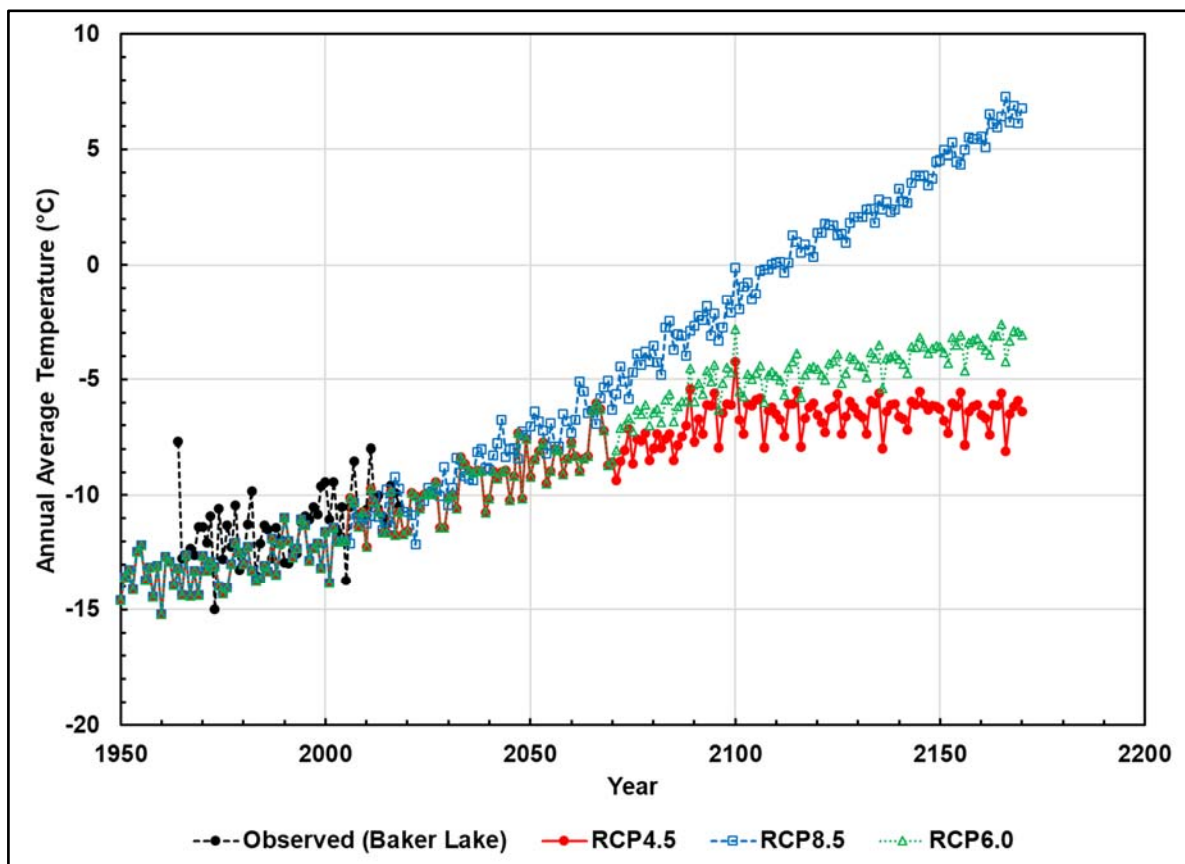


Figure 2.2 Annual average temperature estimated for the RCP4.5, RCP6.0 and RCP8.5 climate change scenarios. Observed temperature at Baker Lake is also shown.

2.1.4 Seismic Zone

The mine site is situated in an area of low seismic risk. The peak ground acceleration (PGA) for the area was estimated using the seismic hazard calculator from the 2010 National Building Code of Canada website (http://www.earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/index_2010-

eng.php). The estimated PGA is 0.019 grams (g) for a 5% in 50-year probability of exceedance (0.001 per annum or 1 in 1,000-year return) and 0.036 g for a 2% in 50-year probability of exceedance (0.000404 per annum or 1 in 2,475 year return) for the area.

2.2 Mine Operations Description

2.2.1 Project Operations

The construction phase began at the beginning of the third quarter of Year -1 (2018) and focused on site preparation and the construction of infrastructure, with the start of the open pit development producing construction material. The operations (mining and ore processing) will continue approximately 7 years, from Year 1 (2019) to Year 7 (2025), with a rate of extraction targeted between 9,000 and 12,000 tonnes per day (t/day) of ore at an average stripping ratio of 8.1. Mining activities are expected to end in Year 7 (2025) and ore processing with stockpiled material is expected to end in Year 8 (2026). During this time, reclamation of the WRSFs will occur progressively through ongoing cover placement. Closure will occur from Year 8 (2026) to Year 33 (2051) after the completion of mining and will include removal of the non-essential site infrastructure and flooding of the mined-out open pits and underground operations, as well as reestablishment of the natural Whale Tail Lake level. Post-closure and monitoring phases will commence as closure is completed in Year 33 (2051) and will continue until it is shown that the site and water quality meets regulatory closure objectives. Table 2.4 summarizes the Project timeline and general activities.

Table 2.4 Overview of Timeline and General Activities

Phase	Year	General Activities
Construction	Year -1	- Construct site infrastructure - Develop open pit mine - Stockpile ore
Operations	Year 1 to 7	- Open pits operations - Underground operations - Transport ore to Meadowbank Mine - Stockpile ore - Discharge Tailings in Meadowbank TSF and In-Pit Tailings Deposition sites
	Year 8	- Complete transportation of ore to Meadowbank Mine - Complete discharge of tailings in Meadowbank TSF and In-Pit Tailings Deposition sites
Closure	Year 8 to 33	- Remove non-essential site infrastructure - Flood mined-out open pits and underground operations - Re-establish natural Whale Tail Lake level
Post-Closure	Year 34 onwards	Site and surrounding environment monitoring

TSF = Tailings Storage Facility

2.2.2 Meadowbank Mine Operations

As a requirement of the Type A Water Licence, any modifications to the dewatering process, life of mine (LOM), tailings storage facilities (TSF), and any other aspect associated with the water management at Meadowbank are adhered to and updated in the annual submission of the Meadowbank Water Management Plan and associated water balance.

SECTION 3 • PROJECT DEVELOPMENT PLAN

3.1 Project Life of Mine

Several LOM scenarios were analysed by Agnico Eagle, which ultimately retained the best one based on economic viability of the Project. The chosen scenario will remain on average 9,000 t/day and up to a peak mill throughput of 12,000 t/day (which is the current rate capacity at Meadowbank Mill). Table 3.1 summarizes the Project LOM.

Table 3.1 Project Mined Tonnages

Year	Ore Mined (t)	Ore Processed in Mill (t)	Production Days
2017	0	0	-
2018	179,003	0	
2019	2,196,993	1,642,500	214
2020	3,070,121	3,040,090	366
2021	3,915,563	3,829,885	365
2022	4,674,860	3,070,030	365
2023	3,970,053	3,224,997	365
2024	4,793,044	3,238,079	366
2025	720,634	2,063,214	365
2026		3,411,477	
Total	23,520,271	23,520,271	

t = tonne

Tailings will be disposed in the approved Tailings Storage Facility, authorized under Project Certificate (No. 004) and Type A Water Licence (2AM-MEA1530). The Project deposition plan is a continuation of the current Meadowbank deposition plan according to the Project production rates and mill feed presented in Table 3.1.

3.2 Mine Waste Production Sequence

Two mine waste streams will be produced at the Project: waste rock and overburden. A third mine waste stream, tailings, will be produced at Meadowbank Mine (Refer to the Meadowbank Mine Waste Rock and Tailings Management Plan, submitted under Water Licence 2AM-MEA1530). Approximately 167.8Mt of waste rock and 11.3Mt of overburden will be generated by the Project as presented in Tables 3.2 and 3.3. The operation, management, and monitoring of the TSF is regulated under Agnico Eagle Type A Water Licence 2AM-MEA1530.

The term “waste rock” designates all fragmented rock mass that has no economic value and needs to be stored separately. Waste rock is also commonly referred to as “mine rock” in the mining industry. Typically, waste rock is produced during the initial stripping phase and during the subsequent development of open pits and underground workings.

The term “overburden” designates all soils above the bedrock that need to be stripped at surface prior to developing the open pits. Generally, the overburden at the site consists of a thin layer of organic material overlying a layer of non-cohesive soil with variable amounts of silt, sand, and gravel.

Table 3.2 Projected Mined Tonnages (2017 – 2025)

Year	Ore Mined (t)	Waste Rock Excavated (t)	Overburden Excavated (t)	Total Material Excavated (t)	Total Material Excavated (t/day)	Strip ratio
2017	0	461,625	199,454	661,079		
2018	179,003	1,087,633	1,236,488	2,503,124		13
2019	2,196,993	17,238,276	4,111,005	23,546,274	64,688	10
2020	3,070,121	29,701,313	2,947,150	35,718,583	97,592	11
2021	3,915,563	31,461,155	1,342,271	36,718,989	100,600	8
2022	4,674,860	31,707,096	281,150	36,663,106	100,447	7
2023	3,970,053	31,075,034	1,226,057	36,271,144	99,373	8
2024	4,793,044	24,002,432	0	28,795,476	78,676	5
2025	720,634	1,090,886	0	1,811,520	4,963	2
Total	23,520,271	167,825,450	11,343,574	202,028,216		8

t = tonne; t/day = tonnes per day.

The proposed usage or destination of the two mine waste materials is presented in Table 3.3. Further details on the management of the mine waste materials are presented in Section 5 of this Plan.

The site layouts presented in Appendix A show the evolution of the site in 2019 to 2025 and after mining. Most of the waste rock excavated in 2018 at the start of the open pit development was used for the construction of the water management structures, the infrastructure pads, and the access roads (Table 3.4). During Year 1 to the end of Year 3 (2021), the remaining required facilities for the operations will be completed.

Table 3.3 Summary of Mine Waste Tonnage and Destination

Mine Waste Stream	Estimated Quantities	Waste Destination
Total Mine Waste Material	179.2 Mt	- Whale Tail and IVR WRSFs (174.4) - Construction material (1.9 Mt) - Underground backfill material (2.8 Mt)
Total Overburden	11.3 Mt	- Temporary storage West of Whale Tail Lake (0.1 Mt for operations) - Co-disposed with waste rock in Whale Tail WRSF (11.2 Mt)
Total PAG and/or Moderate to High Arsenic Leachability Waste	112.1 Mt	- Underground backfill material (2.8 Mt) - Whale Tail and IVR WRSFs (109.3 Mt)

Total NPAG and/or Low Arsenic Leachability Waste	58.4 Mt	- Construction material (1.9 Mt) - Closure and site reclamation (56.5 Mt)
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Table 3.4 Projected Waste Rock Tonnages Used for Construction (2017 – 2025)

Year	Waste Rock and Overburden Excavated (t)	Waste Rock Used for Water Management Infrastructure, Pad and Road Construction (t)	Waste Rock Used for Underground Backfill Material	Waste Rock and Overburden Stored in WRSFs (t)
2017	661,079	356,879	-	304,199
2018	2,324,121	310,094	-	2,014,027
2019	21,349,281	1,217,499	-	20,131,782
2020	32,648,462	0	-	32,648,462
2021	32,803,426		536,392	32,267,034
2022	31,988,246	64,730	666,663	31,256,853
2023	32,301,091		622,943	31,678,148
2024	24,002,432		673,215	23,329,217
2025	1,090,886		306,390	784,496
Total	179,169,024	1,949,202	2,806,142	174,413,680

t = tonne; WRSF = Waste Rock Storage Facility.

Over the LOM, non-potentially acid generating (NPAG)/non-metal leaching (NML) and potentially acid generating (PAG)/metal leaching (ML) waste rock will be segregated according to the requirement for construction (refer to the Operational Acid Rock Drainage (ARD)/Metal Leaching (ML) Testing and Sampling Plan) and capping of the Whale Tail WRSF (refer to Sections 5 and 9).

SECTION 4 • PROJECT OVERBURDEN MATERIALS

A detailed description of soils in the Project footprint is presented in FEIS Volume 5, Section 5.3 - Terrain, Permafrost, and Soils (Agnico Eagle, 2016). Soils in the Project footprint are predominantly coarse to moderately coarse-textured glacial till and colluvium with high coarse fragment content commonly overlying bedrock at shallow depths (less than 1 m). Soils are dominated by Cryosols which develop on till dominated landscapes. Saturated soil layers overlying frozen layers have been observed on site. Other soils identified include Brunisols which are most prevalent on glaciofluvial material (e.g., eskers), Gleysols which develop on till in transition areas between upland and depressional landscape positions, and Regosols which are poorly developed soils. Organic Cryosolic soils have been found in wetlands.

Field results suggest that the mineral soils are predominantly acidic to neutral, ranging from pH 5.14 to 6.96, with pH tending to increase with soil depth (FEIS Amendment Volume 5, Appendix 5-A, Appendix E). Due to their mineralogy, the mineral soils in the Project area are increasingly sensitive to adverse effects due to acid deposition with decreasing baseline pH. Soils in the Project footprint are generally not susceptible to compaction. Soils prone to compaction are limited to low-lying, imperfectly, and poorly drained areas where the clay content of soils is slightly higher.

Most soils in the Project area are rated as having moderate erosion potential, except for areas with morainal blankets or colluvial deposits on slopes greater than 60%, and areas containing glaciofluvial soils. In areas of gullied or dissected terrain, the erosion potential would increase.

There is a level of uncertainty associated with the location of ice-rich permafrost within the Project footprint as no detailed permafrost studies regarding the thickness of the active layer or the ice content of the soils were completed for this area. It is assumed that ground ice content is between 0 and 10% as suggested by Heginbottom et al. (1995). Conditions are like Meadowbank, with ice lenses and ice wedges present locally on land, as indicated by permafrost features such as frost mounds. These areas of local ground ice are generally associated with low-lying areas of poor drainage.

A chemical characterization program investigated the geo-environmental properties of surficial overburden and Whale Tail Lake sediments. Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD and to release metals (metal leaching or ML) to the receiving environment. The surficial overburden, as described in FEIS Amendment Volume 5, Appendix 5-E, is NPAG and has low leachability but the fines portion of the material could be amenable to erosion and transport as suspended solids in contact water.

The overburden expected to be excavated over the LOM is presented in Table 3.2. According to Meadowbank Mine experience, lakebeds will consist of water saturated and soft soils. The

remainder of the overburden materials will consist of till excavated on land. Some of the till or till-like material (approximately 100,000 t) is expected to be used during operations and will be temporarily stockpiled on the Overburden Storage pad (having an approximate footprint of 3.2 hectares (ha)) near Whale Tail Dike and where the contact runoff will naturally flow into the Whale Tail Attenuation Pond. The remaining 11.2 Mt of overburden will be piled at the base of the Whale Tail WRSF and surrounded with waste rock to stabilize the material (see Appendix A). All the overburden stockpiled in the Whale Tail WRSF and IVR WRSF will eventually be covered with NPAG/NML waste rock if deemed required. Further details on mine site closure and reclamation can be found in the Whale Tail Interim Closure and Reclamation Plan.

SECTION 5 • PROJECT WASTE ROCK FACILITIES

The location of the Project WRSFs took into consideration the following environmental, social, economic, and technical aspects of waste rock management:

- minimize the overall footprint of the Project WRSFs to the extent practicable while maintaining the short-term and long-term stability of the facilities
- avoid or minimize impact to adjacent fish bearing lakes
- minimize the haul distance from the open pits and underground operations to the Project WRSFs
- minimize the number of the water catchment areas potentially affected by drainage from the Project WRSFs
- when feasible, divert upstream clean natural non-contact water away from the Project WRSFs
- facilitate the collection and management of the contact water from the Project WRSFs during mine operations to avoid potentially negative impacts on the surrounding environment

The area selected for the storage of waste rock and overburden materials is shown in Figures A.1 to A.8 of Appendix A. This area has an approximate footprint of 240 ha. Waste rock and overburden from the Whale Tail Pit, the IVR pit, and the underground operations not used for site development purposes will be trucked to the Project WRSFs until the end of mine operations.

Waste rock will be managed in accordance with the Plan, as per Part F, condition 20 of the Water License 2AM-WTP1830.

5.1 Waste Rock Properties

A chemical characterization program investigated the geo-environmental properties of waste rock and ore at the Project (Golder, 2018b). Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD (potentially acid generating, or PAG) and to release metals (ML) to the receiving environment.

The Project deposit mineralization is low sulphur but the sulphur carries arsenic which is enriched in many waste rock types, while other rock types are PAG. Arsenic, sulphur, and carbonate-buffering capacity are the parameters of environmental interest present in mining wastes. Mine waste from open pits and underground will be segregated during operations, such that all PAG and/or ML material will be managed within the Whale Tail WRSF and IVR WRSF, and all material that is NPAG and NML will be used for site construction and WRSFs closure. All mine waste from underground operations will be temporarily stored in the Underground WRSF and will be returned underground

to backfill the mine, with no underground waste rock remaining on surface at the end of the mine life.

Table 5.1 below summarizes the various waste rock types and their ARD/ML potential.

Table 5.1 Anticipated ARD/ML Potential of Waste Rock Types at Whale Tail (Golder, 2018b)

Waste Type	Rock Unit Code	ARD Potential	ML Potential ¹
Komatiite North	V4a – 0a	No	High
Komatiite South	V4a – 0b	No	Moderate
Greywacke Central	S3C – 3b	Yes	Variable
Greywacke South	S3S – 3b	No	Low
Greywacke North	S3N-3b	Variable	Variable
Chert	S10 – 3b	Yes	Variable
Iron Formation	S9E – 3b	No	High
Basalt	V3 – 1b	No	Moderate
Diorite	I2 – 8b	No	Low
Overburden	n.a.	No	Low ²
Lake sediment	n.a.	Yes	High ²

n.a. not applicable

¹ based on large column kinetic test results

² based on Shake Flask Extraction results

Most of the waste rock lithologies from open pits to be disturbed by mining are NPAG including komatiite, iron formation, basalt, southern greywacke, and diorite units. Together, these lithologies comprise approximately 72% of the waste rock (120.8 Mt). These units will not require means to control ARD. Of these, however, the basalt, komatiite and iron formation units, which account for 50% of waste rock (83.9 Mt), as well as some of the lake sediments, leach arsenic in static and kinetic leaching tests at concentrations that exceed the Effluent Quality Criterion (EQC) developed for the site. The south greywacke and the diorite within the open pit have low leachability in addition to being NPAG and represent approximately 22% of the waste rock (36.9 Mt). The north greywacke has variable ARD and arsenic leaching potential and represents 11% of waste rock (18.5 Mt).

The ore and waste rock from the central greywacke and chert units are PAG. Chert and central greywacke represent 13% of waste rock to be generated by mining (21.8 Mt). They are silicified and, compared with the other greywacke waste rock, have a lower buffering capacity and/or a slightly higher sulphur content which results in a PAG classification of this material. The PAG waste rock also leaches arsenic but at concentrations that are well below the EQC. Kinetic leaching tests, mineral depletion calculations and consideration of the scale and site differences between laboratory tests and field conditions suggest a time lag to possible ARD development at the site of more than a decade. Upper tier ARD materials (high sulphur/low buffering capacity greywacke or chert waste rock) generated acidic drainage earlier under laboratory conditions but without the benefit of added buffering capacity from mixing with other NPAG rock piles. The delay to onset of ARD from the bulk of PAG waste rock and ore is expected to be substantially longer than the nine years of mine construction and operations. Further, ARD control mechanisms for PAG materials will be implemented during operations as PAG/ML material will be in placed in the center of the Whale Tail WRSF and IVR WRSF and progressively covered with NPAG material.

All open pits waste material will be sampled and tested during operations to confirm their ARD and ML potential in support of waste segregation. Based on results to date, a sulphur content of 0.1 wt% appears to be a suitable threshold to identify PAG material. Arsenic leaching material will be evaluated based on a strong correlation between total and leachable arsenic in the current results, which indicates that material below 75 mg/kg is not expected to result in waste rock contact water quality above the EQC. The diorite and south greywacke material, which are both NPAG/NML, as well as other material below these threshold values, can be used as construction materials on site, as cover material for the Whale Tail WRSF and IVR WRSF and as reclamation material. All material above these thresholds, as well as the lake sediments, will require long-term management and will be stored in the Whale Tail WRSF and IVR WRSF.

5.2 Waste Rock and Waste Rock Storage Facilities Management

5.2.1 Waste Rock Storage Facilities Water Management

Seepage and runoff water from the Project WRSFs is managed by a combination of water retention dikes and water collection ponds (Whale Tail WRSF and IVR WRSF Contact Water Collection Systems, Whale Tail and IVR Attenuation Ponds, and Groundwater Storage Ponds). Water quality is monitored as per the Whale Tail Water License requirements. If water quality does not meet discharge criteria, contact water in the water collection ponds is treated at the Whale Tail water treatment plant (WTP) prior to discharge to the outside environment.

The results from the landform water balance (O’Kane, 2019) shows that only a small portion of incident precipitation will exit the WRSFs as interflow and basal seepage is expected to freeze back at depth. The majority of runoff from the WRSFs is expected to occur because of spring melt, however some runoff is expected throughout the unfrozen period. These results show a significant reduction in the assumptions made for the FEIS (November 2018).

5.2.1.1 *Whale Tail WRSF*

The Whale Tail WRSF was located considering advantageous topography in the form of a gentle valley presenting one low topographic point near Mammoth Lake where a contact water pond was built. Only one low topographic point is observed north of the Whale Tail WRSF where potential runoff could escape from the Whale Tail WRSF footprint. A sump will be located in the area to ensure water does not escape the WRSF watershed from this area.

The WRSF Dike construction was completed in 2019 to form the WRSF Pond. During the operations of the mine, seepage and runoff from the Whale Tail WRSF is captured by the Whale Tail WRSF Pond and pumped to the Whale Tail Attenuation Pond where the contact water is treated in the Whale Tail WTP prior to discharge to the outside environment.

The Whale Tail WRSF water management infrastructure will remain in place until mine closure activities are completed, and monitoring results demonstrate that the contact water quality from the Whale Tail WRSF meets discharge criteria (refer to Section 9.1).

In August 2019, seepage from WRSF Pond reported through the structure towards Mammoth Lake. Immediate actions were undertaken to remediate the situation, including pumping water downstream of the structure, and maintaining the pond dry. Additional actions were taken prior to freshet 2020, to promote permafrost into the dike foundation, as well as the construction of a more robust water collection system. Refer to the Water Management Plan for additional details on water management of the Whale Tail WRSF.

5.2.1.2 *IVR WRSF*

Seepage and runoff from the IVR WRSF will be captured and will be conveyed to the IVR WRSF Contact Water Collection System prior to being pumped to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond). This conveyance system is decommissioned at closure thereby re-establishing natural drainage patterns towards Whale Tail Lake (North Basin) via the IVR Pit. The total catchment of the IVR WRSF increases proportionally with the increase in waste rock footprint which encroaches on the natural catchment of the IVR Attenuation Pond over time.

Refer to the Water Management Plan for additional details on water management of the IVR WRSF.

5.2.1.3 *Underground WRSF*

Seepage and runoff from the Underground WRSF will be managed separately from any surface infrastructure contact water. Runoff from the Underground WRSF will be collected in the Groundwater Storage Pond system (GSP). Three GSPs are planned to provide operational flexibility and adaptive management opportunity. The first pond (GSP-1) will be used to store high salinity water from early mining operations through the permafrost, a second pond (GSP-2) will be used to store low salinity water, and a third pond (GSP-3) for contingency:

- Excess water volumes in the mine will be managed through the Underground Mine Stope and GSP-1 for high salinity water, and through GSP-2 for low salinity water. Excess water volumes may also be managed with GSP-3 planned for contingency, operational flexibility, and adaptive management opportunity
- At the end of underground mining, any remaining water in the GSP ponds will be pumped underground for flooding of the underground workings

Refer to the Water Management Plan for additional details on water management of the underground WRSF.

5.2.2 Waste Rock Management Planning

5.2.2.1 Whale Tail Pit and IVR Pit

Waste rock and overburden produced during mining is used in the construction of the mine site infrastructure, while some of the NPAG/NML waste rock is put aside for capping at closure and for underwater structures for fish habitat compensation if required. The balance of the PAG or NPAG waste rock that will not be used will be placed in the Whale Tail WRSF or IVR WRSF and will remain in the dedicated rock storage facility areas for PAG or NPAG material.

As a first step in waste rock management planning, options are developed to define the main use and destination for each rock type based on the results of geochemical testing. The second step required accounting of the quantity and timing of extraction of each waste rock type on an annual basis. This included further refinement of the quantity, type, and timing of construction material requirements for each infrastructure of the project. The lithology of waste rock is added to the geological block model for each deposit and a detailed account of construction requirements is made, based on the most advanced infrastructure designs available at the moment of planning. The Waste Rock Management Plan is updated annually with current production quantities and actual LOM, dictating the production and mining schedule. Planning of the placement of waste rock material is reviewed for each LOM exercise, considering the different waste rock facility locations and capacity, as well as the closure NPAG/NML cover requirements.

Waste rock management is also part of the day to day planning of the mine operation. Part of the mining planning includes the management of waste rock, to ensure the plan established with the LOM is followed, to ensure material required for construction or closure purposes are properly stored, and to plan for adequate and permitted storage areas. Because of the material requirement for construction and NPAG/NML rock cover, as well as the importance for adequate disposal to meet closure objectives, waste rock management is a key component of the mining planning for the Project.

5.2.2.2 *Underground Operations*

Waste rock from underground operations will be temporarily stored on surface in the Underground WRSF until used for underground backfill as the stopes will be filled with cemented rock fill and rock fill. All underground waste rock will be reclaimed during operation.

5.2.3 **Waste Rock Management Execution**

5.2.3.1 *Whale Tail Open Pit and IVR Pit*

Segregation of ore and waste rock as potentially acid generating (PAG) or non-potentially acid generating material (NPAG), as well as metal leaching (ML) and non-metal leaching material (NML), is based on operational testing during mining activity to differentiate waste rock types. Sampling and testing of waste materials for acid rock drainage (ARD) and metal leaching is conducted during mine operations in order to segregate PAG/ML waste rock from NPAG/NML waste rock material, so that waste material can be assigned to specific locations or use. This practice has been ongoing since the beginning of the mining operations at Meadowbank and is continuing during the operation period at the Project.

Operational sampling and analysis is completed at the laboratory on site, at specified frequency during mining activities, to identify and delineate the material type in the pits during mining. The results from these analyses are used to differentiate the PAG/ML and NPAG/NML materials. Once characterized, the waste rock material will be segregated and placed in appropriate locations.

The geochemical properties of all Whale Tail and IVR mining wastes are also confirmed by a certified laboratory, through both static and kinetic testing on numerous representative samples, by various test methods and through multiple Project development stages. These data will be used to update the Waste Rock Management Plan and implement adaptive management strategies to adequately ensure the protection of the environment and meet regulatory requirements.

The dispatch system is a computer system used to manage and control surface mining equipment. This system was implemented at Meadowbank and is being used at the Project. The system offers real time fleet management and machine guidance technology that records data related to mining equipment activity, location, time, production, and maintenance. This information is also displayed to machine operators and other mining personnel. The system connects with mobile computers on field equipment such as excavators and haul trucks. For example, operators of loading equipment in the pit have information on screens about the type of material they are excavating. The haul truck drivers also have access to information in their equipment about what type of material they are hauling and where is the appropriate disposal destination for the material. Information regarding the waste rock characterization is also managed and recorded by the mine dispatch system, as well as tracking in real time loads of material, including waste rock, and their respective destination. The system and the dispatcher in charge guide the operators and ensure the ore and waste rock material are transported to the appropriate destination.

As part of the planning and execution of the waste rock management strategy, waste rock presenting geological characteristics leading to metal leaching such as arsenic will be managed in the Whale Tail WRSF and IVR WRSF in order to ensure their encapsulation and geochemical stability. Certain types of waste rock material or lithology will be placed in specific locations within the WRSFs in order to provide sufficient cover of NPAG/NML waste rock material to prevent metal leaching and ensure geochemical stability.

5.2.3.2 Underground Operations

Waste rock from underground operations will be temporarily stored on surface in the Underground WRSF until used for underground backfill as the stopes will be filled with cemented rock fill and rock fill. All underground waste rock will be reclaimed during operation.

5.2.4 Waste Rock Facilities Monitoring

Monitoring will be carried out during all stages of the operation to demonstrate geotechnical stability, safe environmental performance of the facilities, and efficiency of the waste management procedures. The Whale Tail WRSF and IVR WRSF will be monitored similarly as they are permanent infrastructure but the underground WRSF is a temporary infrastructure and will not require the same level of monitoring. If any non-compliant conditions are identified, adaptive management including modification of waste management practices and planning for corrective measures will be completed in a timely manner to ensure the environmental performance of the Project WRSFs, the protection of the environment, and that regulatory requirements are met.

To assess and monitor the performance of the waste rock management procedure, several methods can be put in place during the operation, such as:

- QA/QC laboratory analysis program with an accredited commercial laboratory to validate the procedure and results of the onsite laboratory for determination of PAG/NPAG and ML/NML waste rock
- Mine dispatch data base, ensuring tracking and location of all waste rock material at any locations on site. With the information in the system, recovery of waste rock material disposed in an inappropriate location will be possible in a timely manner
- Clear indication and marking of the PAG/ML zones, NPAG/NML zones and NPAG/NML cover within the waste rock storage facility, to provide visual guidance for the operators and during environmental inspection
- Survey of the WRSFs to provide a record plan of the waste rock material placement within the facility
- Thermal monitoring of the WRSFs to observe freezeback with thermistors installed at strategic locations. The purpose of the thermistors is to monitor the temperature within the facility as freezing progresses. The thermistors will be monitored regularly throughout the

- operational period, as presented in the 2020 Thermal Monitoring Plan, to verify and validate the WRSFs thermal model with operational data from site
- Water quality monitoring will be completed as per the Water Quality Flow and Monitoring Plan and the Water License requirements

A specific set of procedures for segregation and monitoring of the waste rock material at the Project is presented in the Operational Acid Rock Drainage (ARD)/ Metal Leaching (ML) Testing and Sampling Plan.

5.3 Project Waste Rock Storage Facilities Dimensions

The evolution of the Project WRSFs is shown in Figures A.1 to A.8 of Appendix A. At completion, the crest elevation of the Whale Tail WRSF will be approximately at 250 m (maximum height of approximately 95 m) in an environment where the adjacent topography elevation varies between 154 and 170 m. The crest elevation of the IVR WRSF will be approximately at 221 m (maximum height of approximately 60 m) in an environment where the adjacent topography elevation varies between 154 and 170 m. All underground waste rock will be reclaimed during operation.

The Project WRSFs are designed to minimize the impact on the environment and consider both the physical and geochemical stability of the stored waste rock and overburden. The design criteria are presented in the Approved Project FEIS Volume 2, Appendix 2-J (Agnico Eagle, 2016). The Project WRSFs are designed considering the placement of the waste rock and overburden in layers spread using a dozer to minimize the footprint and the dust. Each bench of 20 m maximum height is composed of 4 layers of 5 m thickness, and the bench toe will start at a setback distance of 20 m from the crest of the previous bench. The current design and overall sideslope angle of the Project WRSFs is 2.5V:1V, an angle generally considered stable for such a facility (see Figure 5.1 for a typical cross section). Slope stability analyses have been performed to determine the final design so that it is consistent with approved Portage and Vault Waste Rock facilities at Meadowbank Mine. If needed, the Project WRSFs could be expended for additional capacity, within the approved limits of the Project and upon regulatory approval.

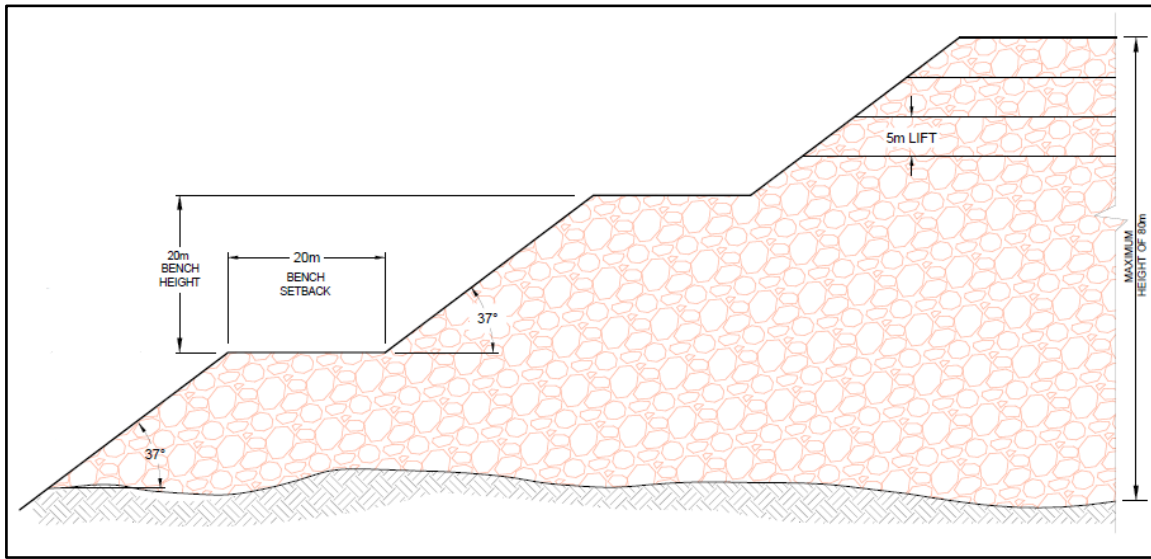


Figure 5.1 Typical Cross Section of the Whale Tail Waste Rock Storage Facility

Source: SNC (2015).

SECTION 6 • PROJECT ORE STOCKPILES

The six areas selected for stockpiling of ore are identified as Whale Tail Ore Stockpiles (No.1 to No.3), IVR Ore Stockpile No.4, and Underground Ore Stockpile No.1 and No.2 on Figure A.7 of Appendix A. These ore stockpile pads have the following approximate footprint:

Table 6.1 Ore Stockpile footprint

Ore Stockpile	Area (m ²)
WHL Ore Stockpile (No.1)	70,662
WHL Ore Stockpile (No.2)	82,191
WHL Ore Stockpile (No.3)	102,756
IVR Ore Stockpile (No.4)	146,329
Underground Ore Stockpile (No.1)	16,029
Underground Ore Stockpile (No.2)	1,476

No ore will remain on stockpile pads at the end of operations.

6.1 Ore Properties

A chemical characterization program investigated the geo-environmental properties of waste rock and ore (FEIS Amendment Volume 5, Appendix 5-E). Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD and to release metals (ML) to the receiving environment.

The ore is PAG, and is enriched in arsenic, antimony, bismuth, chromium, selenium, silver and to a lesser extent, nickel. Some of the ore samples leached arsenic at concentrations that exceed the Portage effluent criterion in static (shake flask extraction) tests but exceedances were short-lived in the first cycles of kinetic leaching tests. The delay to onset of ARD from ore is expected to be substantially longer than the seven years LOM.

6.2 Ore Stockpile Management

Seepage and runoff water from WHL Ore Stockpiles 1, 2, and 3 will naturally flow to the Whale Tail Attenuation Pond; channels will be constructed if deemed required to direct the seepage and runoff to the pond. If the water quality does not meet discharge criteria, the contact water will be treated at the Whale Tail WTP prior to discharge to the outside environment.

Contact water from Underground Ore Stockpile 1 and Ore Stockpile 2 seepage will be managed separately from any surface infrastructure contact water. Contact water from Underground Ore Stockpiles will be collected and managed in the Groundwater Storage Ponds.

The Ore Stockpile Pad 1, which constitutes the first stage of the ore stockpile development, was designed based on the following considerations. A minimum 1.0 m of overburden and/or waste rock was placed over original ground to reduce any thaw-induced differential settlements. Waste rock was then placed to follow the natural topography, thereby reducing the likelihood of water ponding on the surface of the pad requiring additional maintenance. A final grade of about 0.5% sloping towards the Whale Tail Attenuation Pond was achieved. Any surface run off from the ore stockpile or the pad will therefore be directed to the Attenuation Pond containment area (Agnico Eagle, 2018a).

6.3 Ore Stockpile Facility Dimensions

6.3.1 Whale Tail Pit and IVR Pit

The four primary stockpiles at the Whale Tail Pit site occupy an area of approximately 40.2 ha. A typical cross section of these facilities is presented in Appendix A (Drawing no. 6108-687-210-001). Currently, Ore Stockpiles Whale Tail Ore Stockpile 1, to Whale Tail Ore Stockpile 3, and IVR Ore Stockpile No.4 are designed to stack four layers of 5 m maximum thickness for a total height of 20 m. The sideslope angle of these ore stockpiles will be 3V:1V, an angle generally considered stable for such facility. Slope stability analyses will be performed during the next engineering phases and a final design will be presented prior to construction.

6.3.2 Underground Operations

The two ore stockpiles for underground operations will occupy an area of approximately 1.7 ha. A typical cross section of these facilities is presented in Appendix A (Drawing no. 6108-687-210-001). Currently, Underground Ore Stockpile 1 and Underground Ore Stockpile 2 are designed to stack four layers of 5 m maximum thickness for a total height of 20 m. The sideslope angle of these ore stockpiles will be 3V:1V, an angle generally considered stable for such facility.

SECTION 7 • MEADOWBANK TAILINGS STORAGE FACILITY - TAILINGS MANAGEMENT FOR PROJECT

According to the Whale Tail Pit Life of Mine (LOM) calculation, the addition of the Whale Tail Pit Project to the actual Meadowbank LOM (LOM 2015) will generate an addition of approximately 22.1 Mt (dry) of tailings to the Meadowbank Tailings Storage Facility (TSF) and In-Pit Tailings Deposition sites for a total of 49.2 Mt.

Tailings from the Project are stored within the approved Meadowbank TSF footprint and in the In-Pit Tailings Deposition sites. To store the full volume of tailings from processing of the Whale Tail Pit ore, Agnico Eagle maximized storage in the South Cell, and constructed internal dike structures to store additional tailings within the current footprint of the North Cell. In-Pit Tailings Deposition will be the method used to store the remaining tailings.

The Meadowbank Tailings Storage Facility Management Plan for Whale Tail Pit - Version 2_NIRB (Agnico Eagle, 2018b) outlines the required management of tailings produced through the Whale Tail Project (2019 to 2026).

The management, operation, and monitoring of the TSF and IPD is regulated under Agnico Eagles existing Type A Water Licence 2AM-MEA1530. More details on this are provided in the Meadowbank Waste Management Plan.

SECTION 8 • CONTROL STRATEGIES FOR ACID ROCK DRAINAGE AND METAL LEACHATE IN COLD REGIONS

The generation of metal leachate in acidic drainage is a concern for mining projects. In evaluating the potential control strategies for the disposal of the mine waste for the Project, consideration was given to strategies that are effective in cold regions. A discussion of the alternative control strategies considered is summarized below.

Common control strategies for the prevention or reduction of acid mine drainage in cold regions are:

1. Control of acid generating reactions
2. Control of migration of contaminants
3. Collection and treatment

In assessing the overall control strategies for the Project, emphasis has been placed on methods that satisfy (1) and (2) in the above list, which then has an impact on (3) by potentially reducing the requirements for these activities. Table 8.1 presents various acid mine drainage control strategies.

Table 8.1 Acid Mine Drainage Control Strategies of the Arctic

Strategy	Description
Freeze Controlled	Requires considerable volumes of non-acid waste rock for insulation protection. Better understanding of air and water transport through waste rock required for reliable design.
Climate Controlled	Requires control of convective air flow through waste rock, infiltration control with modest measures and temperature controls. Better understanding of waste rock air, water, and heat transport for reliable design.
Engineered Cover	Special consideration for freeze-thaw effects. Availability and cost of cover materials are major impediments.
Subaqueous Disposal	Very difficult to dispose of waste rock beneath winter ice.
Collection and Treatment	Costly to maintain at remote locations. Long-term maintenance cost.

Source: Dawson and Morin (1996).

The Project site is located within the zone of continuous permafrost and has a mean annual air temperature of about -11.3°C. Based on thermal data collected during baseline studies, the mine area is underlain by permafrost to be on the order of 425 to 495 mbgs. In developing this Plan, freeze control and climate control strategies have been adopted.

Freeze control strategies rely on the immobilization of pore fluids to control acid mine drainage reactions, and the potential migration of contaminated pore water outside of the storage facility. The climate conditions in the project area are amenable to freeze control strategies, and hence should be taken advantage of. In addition to immobilization of pore fluids, permafrost can reduce the hydraulic conductivity of materials by several orders of magnitude. Consequently, freeze control

strategies are effective methods for reducing the migration of contaminants through materials. According to Dawson and Morin (1996), freeze control strategies can only be effective if sufficient quantities of NPAG waste rock are available for use as a cover and insulation protection.

Climate control strategies rely on cold temperatures to reduce the rate at which oxidation occurs. The low net precipitation in permafrost regions limits infiltration of water into waste rock and tailings disposal areas. Consequently, the climate of the Project area will act as a natural control to reduce the production of acid mine drainage and metal leachate. Climate control strategies are best applied to materials placed at a low moisture content to reduce the need for additional controls on seepage and infiltration. This strategy is effective for waste rock in arid climates such as the one of the Project.

Meadowbank Mine uses the climate control strategy for the reclamation of the WRSF and TSF. Research activities are ongoing about the behaviour and the performance of the proposed cover systems for Meadowbank Mine with the participation of the Université du Québec en Abitibi-Témiscamingue and Polytechnique: Research Institute Mines and Environment since 2014. Experience and knowledge acquired at Meadowbank Mine regarding the design, the closure cover concept, and the monitoring of the facility and the cover system will be applied to the Project waste rock storage facilities.

SECTION 9 • MONITORING AND CLOSURE

9.1 Project Waste Rock Storage Facilities**9.1.1 Whale Tail WRSF and IVR WRSF**

Progressive reclamation includes closure activities that take place prior to permanent closure in areas or at facilities that are no longer actively required for current or future mining operations. Reclamation activities can be done during operations with the available equipment and resources to reduce future reclamation costs, minimize the duration of environmental exposure, and enhance environmental protection. Progressive reclamation may shorten the time for achieving reclamation objectives and may provide valuable experience on the effectiveness of certain measures that might be implemented during permanent closure. The Whale Tail WRSF and IVR WRSF will be operated to facilitate progressive reclamation; detailed mine closure and reclamation activities are provided in the Whale Tail Interim Closure and Reclamation Plan.

A closure cover system will be added on the slopes and top surface of the Whale Tail WRSF and IVR WRSF, to encapsulate the PAG/ML waste rock. As for the Meadowbank WRSF, the NPAG/NML cover to be placed over the PAG/ML waste rock will be constructed during operations with the available equipment and resources in areas safe to access for work.

In 2018, studies were initiated with a consultant (Okane) to develop the detailed engineering design for the capping of the Whale Tail and IVR WRSF. This mandate included thermal modelling to re-assess the capping thickness. This information was also used to inform the instrumentation program to ensure that the WRSF cover performs according to its design intent. These studies were completed in 2019 and provided to the authorities (Landform Water Balance Modelling of Whale Tail and IVR WRSF under RCP8.5., Okane Reference No. 948-011-015 rev4 and Amaruq Waste Rock Storage Facility Thermal Cover System Design Basis. Okane Reference No. 948-011-M-007 Rev3).

The cover design proposed is like the Meadowbank Portage WRSF. Based on results calibrated to the Meadowbank WRSF thermal data to date and climate change predictions, the maximum predicted thickness of the WRSF active layer is 4.2 m and a contingency of 0.5 m will be added. Thus, the cover will consist of a 4.7 m thick NPAG/NML waste rock placement as a final surface cover, or otherwise dictated by thermal monitoring and updated thermal modelling during operations. The intent of the cover is to contain the yearly active layer inside the thickness of the cover and maintain a temperature below 0°C for the underlying PAG/ML waste rock. The objective of the cover is the control of acid generating reactions and migration of contaminants.

The segregation of the PAG/NPAG and ML/NML waste rock will occur during operations (see the Operational ARD-ML Sampling and Testing Plan and Section 5.2), as will the progressive placement of the final cover on the WRSFs slopes. The covering of the top of the Whale Tail WRSF and IVR WRSF will be completed during the closure period using the stockpiled NPAG and NML waste rock.

There is sufficient NPAG/NML material for the 4.7 m cover, if needed (Golder, 2018b). It is anticipated that the native lichen community will naturally re-vegetate the surface of the Whale Tail WRSF and IVR WRSF over time.

During operation and closure, thermal monitoring will be conducted in the covers and the facilities. These results, along with thermal modelling, will assess the performance of the WRSFs closure covers and identify if adjustments in the cover placement or thickness will be required.

Thermal and water quality monitoring will be carried out during all stages of the mine life to demonstrate geotechnical stability and the safe environmental performance of the facilities. If any non-compliant conditions are identified, then maintenance and planning for corrective measures will be completed in a timely manner to ensure successful completion of the Whale Tail Interim Closure and Reclamation Plan.

Mine closure and the reclamation of the Whale Tail WRSF and IVR WRSF will use currently accepted management practices and appropriate mine closure techniques that will comply with accepted protocols and standards.

Geochemical testing indicates that some waste rock material is NPAG/NML, but some waste rock is characterized as PAG and/or ML (refer to Section 5.1) and therefore, means to limit oxidation and water infiltration need to be put in place. By containing the yearly active layer inside the thickness of NPAG/NML waste rock cover and maintaining a temperature below 0°C for the underlying PAG/ML waste rock, the cover will provide control of acid generating reactions and prevent the migration of contaminants. Increased active thaw depth/rock cover from 4.0 to 4.7 m is expected to have no effect on WRSF contact water quality during operations, and long-term post closure effects to water quality of a thicker active layer are expected to be within model accuracy where a clean (low leaching) waste rock cover is present.

The contact water management system for the Whale Tail WRSF and IVR WRSF (WRSF Dikes and WRSF Ponds) will remain in place until mine closure activities are completed and monitoring results demonstrate that water quality conditions from the Whale Tail WRSF and IVR WRSF are acceptable for discharge with no further treatment required. Water quality will be monitored as per the Project Water License requirements. Once water quality meets the discharge criteria established through the water licensing process, the contact water management system will be decommissioned to allow the surface runoff and seepage water from the Whale Tail WRSF and IVR WRSF to naturally flow to the outside environment. Water quality predictions for Whale Tail Pit are provided in Addendum Volume 6, Appendix 6-H of the FEIS (Agnico Eagle, 2016). An updated water quality forecast report including the Whale Tail WRSF operation and closure was completed in March 2020 and is included in the 2019 Whale Tail Pit Water Management Plan. As part of the Expansion Project approval process in May 2019 Golder Associates Ltd. prepared a water quality forecast update including the aspects related to the Expansion Project (Golder, 2019).

9.1.2 Underground WRSF

The Underground WRSF is a temporary facility as the mine waste from underground operations will be returned underground as backfill during mining operations, with no underground waste rock remaining on surface at the end of the mine life.

The reclamation of the Underground WRSF will use currently accepted management practices and appropriate mine closure techniques that will comply with accepted protocols and standards.

9.2 Ore Stockpiles

All Ore Stockpiles will be used during operations to stockpile ore and will emptied in 2026. During the following summer, if metal contamination of ore pads is measured, the contaminated pad section will be excavated and placed in the WRSFs before its final covering with NPAG waste rock. If deemed required, the Ore Stockpiles will be covered with NPAG/NML waste rock or soils. In the event of a short-term temporary closure, the water and dust management strategies for the ore stockpiles will be kept the same as used during active mine operations. In the event of a long-term temporary closure, surface water control structures will be maintained as required. Further details on mine site closure and reclamation, including the Ore Stockpiles, can be found in the Whale Tail Interim Closure and Reclamation Plan.

9.3 Monitoring of Freezeback at the WRSFs

Thermal monitoring will be carried out during all stages of the mine life to demonstrate geotechnical and geochemical stability and the safe environmental performance of the facilities. If any non-compliant conditions are identified, then maintenance and planning for corrective measures will be completed in a timely manner to ensure successful completion of the Whale Tail Interim Closure and Reclamation Plan.

To observe the freezeback of the Whale Tail WRSF and IVR WRSF, a series of thermistors will be installed at strategic locations. The purpose of the thermistors is to monitor the temperature within the facility as freezing progresses. The thermistors will be monitored regularly throughout the operational period as well as during closure and post-closure according to the Whale Tail Water Licence and as described in the 2020 Thermal Monitoring Plan. The results will be used to evaluate the predicted thermal response of the facilities and will allow for revision of the thickness of the final cover if required. As the Underground WRSF will be reclaimed completely, no monitoring is needed.

9.3.1 Instrumentation During Operation

Vertical and horizontal thermistor chains will be installed along targeted instrumentation sections during operation. The monitoring program also include near surface arrays installed on targeted benches. The actual schedule for installation of instrumentation in operation will be defined based on the mining plan, WRSF development schedule and accessibility. An adaptive monitoring strategy

will be implemented in which the decision to install additional thermistor in operation will be based on the analysis of the results of the thermal monitoring program.

9.3.2 Instrumentation at Closure/Post-Closure

Additional vertical thermistors will be installed on top of the pile upon end of operations and the installation of the cover system for closure of the facility. The location and depth of installation of these thermistor chains will be based on the results of the monitoring program in operation. The thermistor chains will be connected to data loggers for automatic data collection, storage and transmission. Data will be reviewed periodically or as needed. Results will be summarized in monitoring reports on a yearly basis during the operation.

In general terms, Agnico Eagle intends to evaluate WRSF freeze-back performance by monitoring thermistor strings, collecting water quality which will be compared against sensitivity and 'base case' freeze-back modelling, and site-wide load balance modelling. The results of the performance and monitoring will be presented within the Annual Report. It is expected that a range of freeze-back performance will occur due to inherent variability in construction technique, physical material properties and chemical material properties. Significant divergence of in situ measurements outside of the range of expected and acceptable variability from the numerical model will be evaluated to determine potential impact on closure and additional monitoring and/or mitigations required.

Specifically, should daily temperature readings of thermistors located at the interface of the waste rock and thermal cover system indicate that the waste rock is not frozen, resulting in water quality exceedances beyond permitted values in the WRSF collection ponds or groundwater monitoring prior to post-closure, these will trigger the installation of additional monitoring and/or mitigation to reduce uncertainty in variability and reducing the overall risk to water quality. This overall performance will be based on the integration of the various monitoring data used as model inputs.

9.4 Adaptive Management

Adaptive management will be achieved through performance monitoring and management actions that will be implemented, should they be triggered. Action level responses taken during the year will be documented in Agnico Eagle's annual report submitted to the NWB. For more details on the adaptive management actions Agnico Eagle is planning to implement related to the Waste Rock Storage Facilities, please refer to the ARD/ML plan (Section 5, table 5.1). In addition, the Whale Tail Pit Expansion Project – Adaptive Management Plan (Agnico Eagle, 2020) includes the specific adaptive management strategies that will be implemented in the WRSF to meet water quality objectives, and chemical and physical stability of the WRSFs during operations, closure, and post-closure phases. The Adaptive Management Plan is still under approval by the Nunavut Water Board but once approved this plan will fully cover the adaptive management strategy.

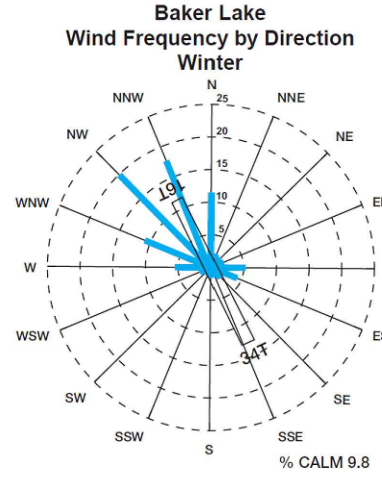
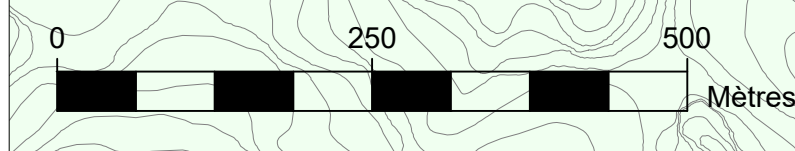
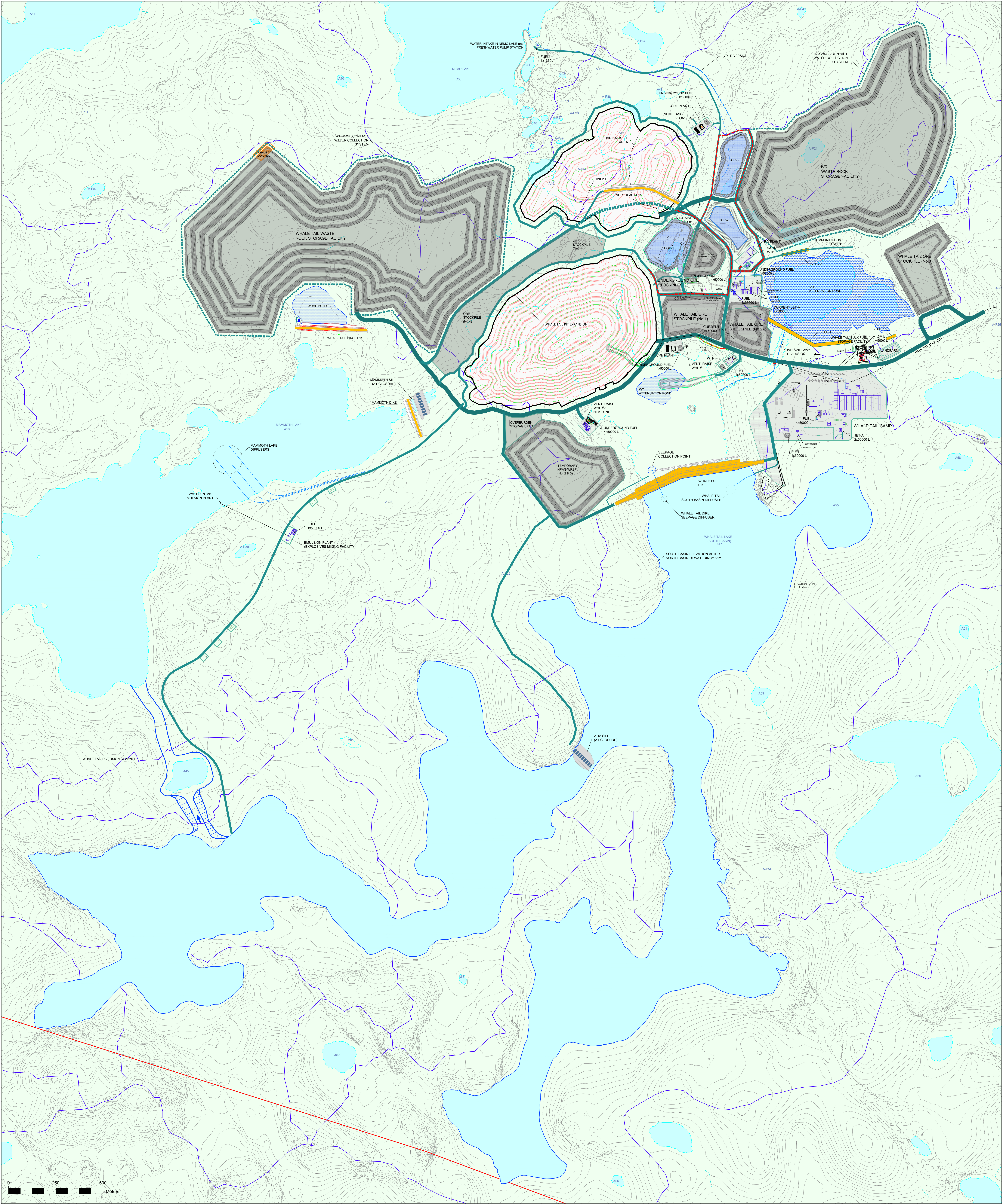
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APPENDIX A • DRAWINGS - SITE LAYOUTS

Figure A.1	General Site Layout
Figure A.2	Pre-development Site Layout
Figure A.3	Yearly Site Layout Plan (Year 2019_Q4)
Figure A.4	Yearly Site Layout Plan (Year 2020_Q4)
Figure A.5	Yearly Site Layout Plan (Year 2021_Q4)
Figure A.6	Yearly Site Layout Plan (Year 2022_Q4)
Figure A.7	Yearly Site Layout Plan (Year 2023_Q4)
Figure A.8	Yearly Site Layout Plan (Year 2024_Q4)
Figure A.9	Yearly Site Layout Plan (Year 2025_Q4)
Figure A.10	Yearly Site Layout Plan (Year 2026_Closure)
Figure A.11	Site Layout Plan (Year 2042_Post_Closure)
Figure A.12	WRSF, Starter Pit and Ore Stockpile Plan View, Roads and Pads Construction Drawing 6108-687-210-001



LEGEND

- WATERSHED
- ATTENUATION POND
- LAKE WATER
- OPEN PIT
- HAUL ROAD, LARGE WIDE
- HAUL ROAD, SINGLE LANE
- SERVICE ROAD
- ROAD, SALT PROTECTION
- ROCK PILE
- WATER POND
- PAD
- BUILDING
- SILL

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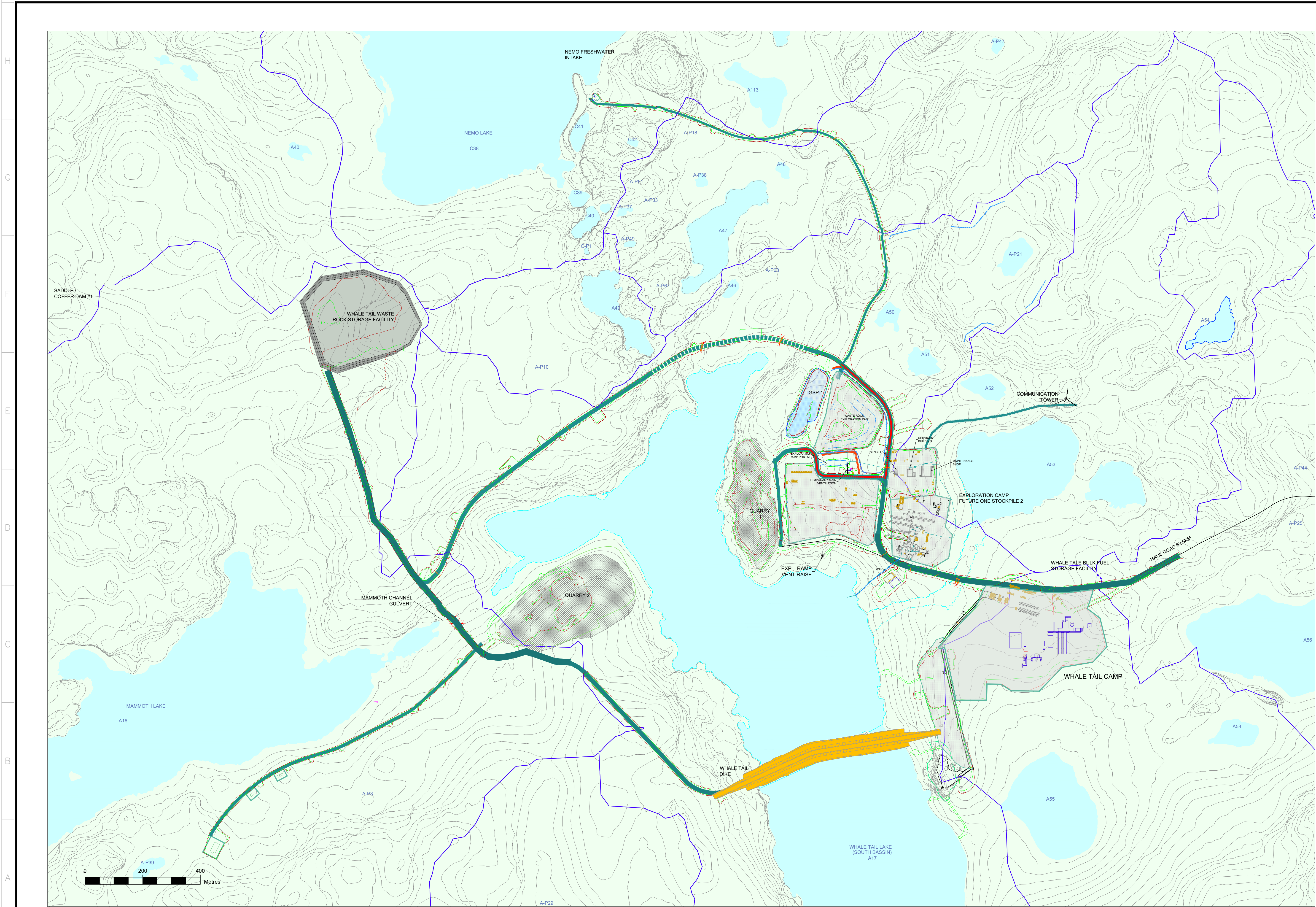


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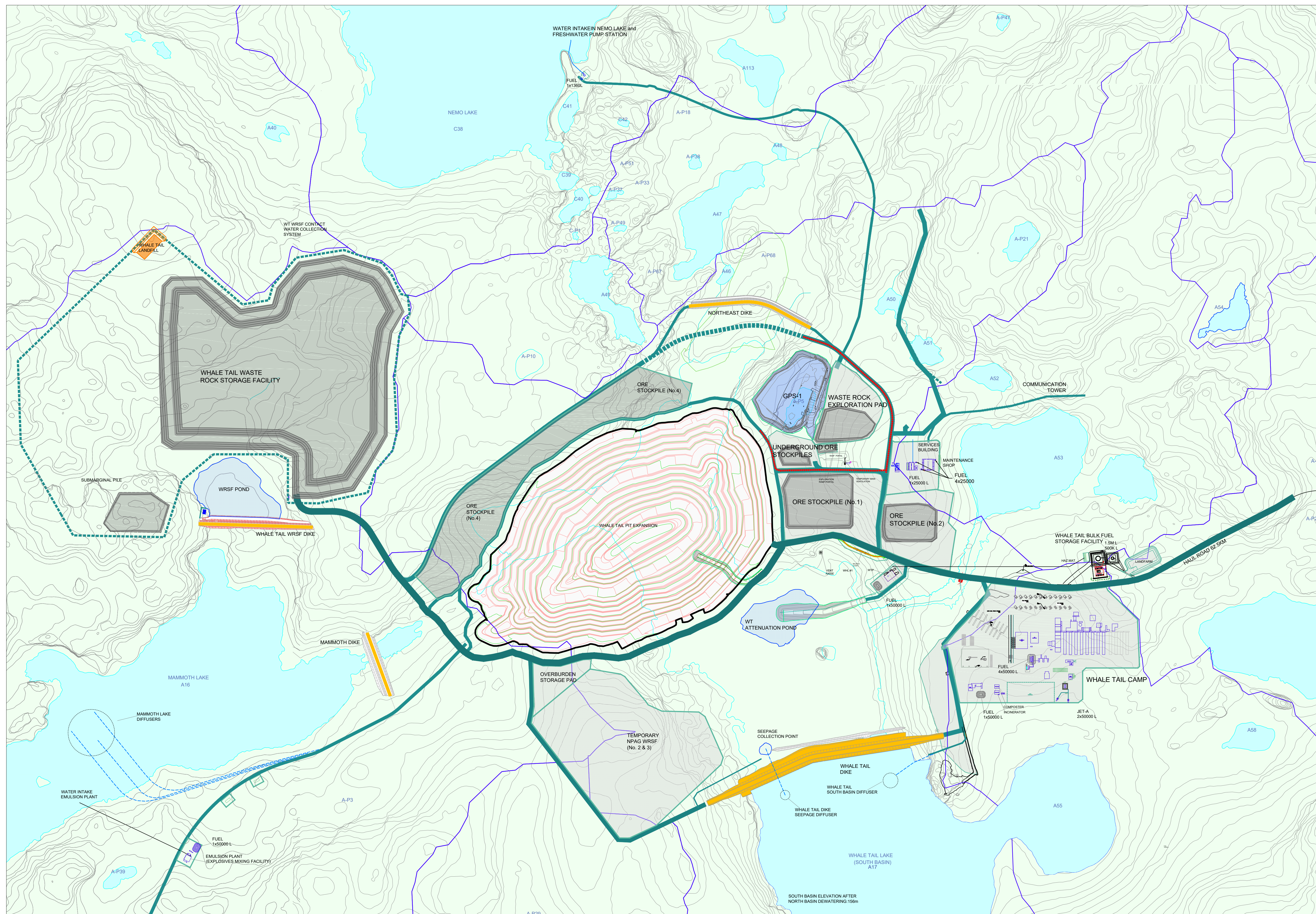
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AMARUQ MINE PROJECT

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210 GENERAL ARRANGEMENT

AMARUQ MINE SITE ARRANGEMENT

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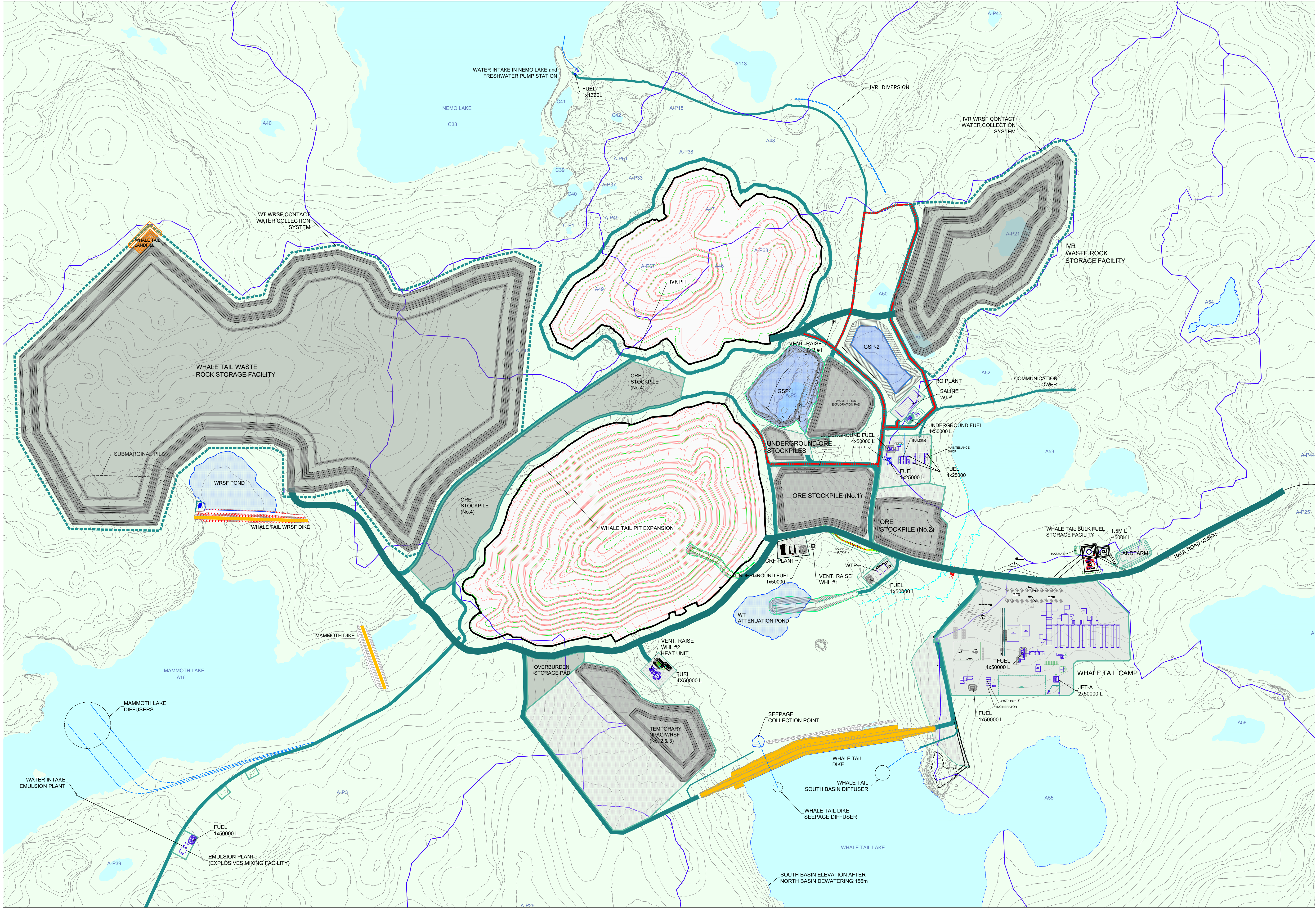
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	- ROAD, SALT PROTECTION
	- ROCK PILE
	- WATER POND
	- PAD
	- BUILDING

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TITRE / TITLE	# DWG



REV.	DATE	DESCRIPTION	PAR/EN	APP.	CLIENT

REVISIONS

AMARUQ PROJECT

TITRE / TITLE
AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR
DRAWN BY J. CRETE

DATE
2019-05-02

VÉRIFIÉ PAR
CHECKED BY J. MOSQUERA

DATE
2019-05-02

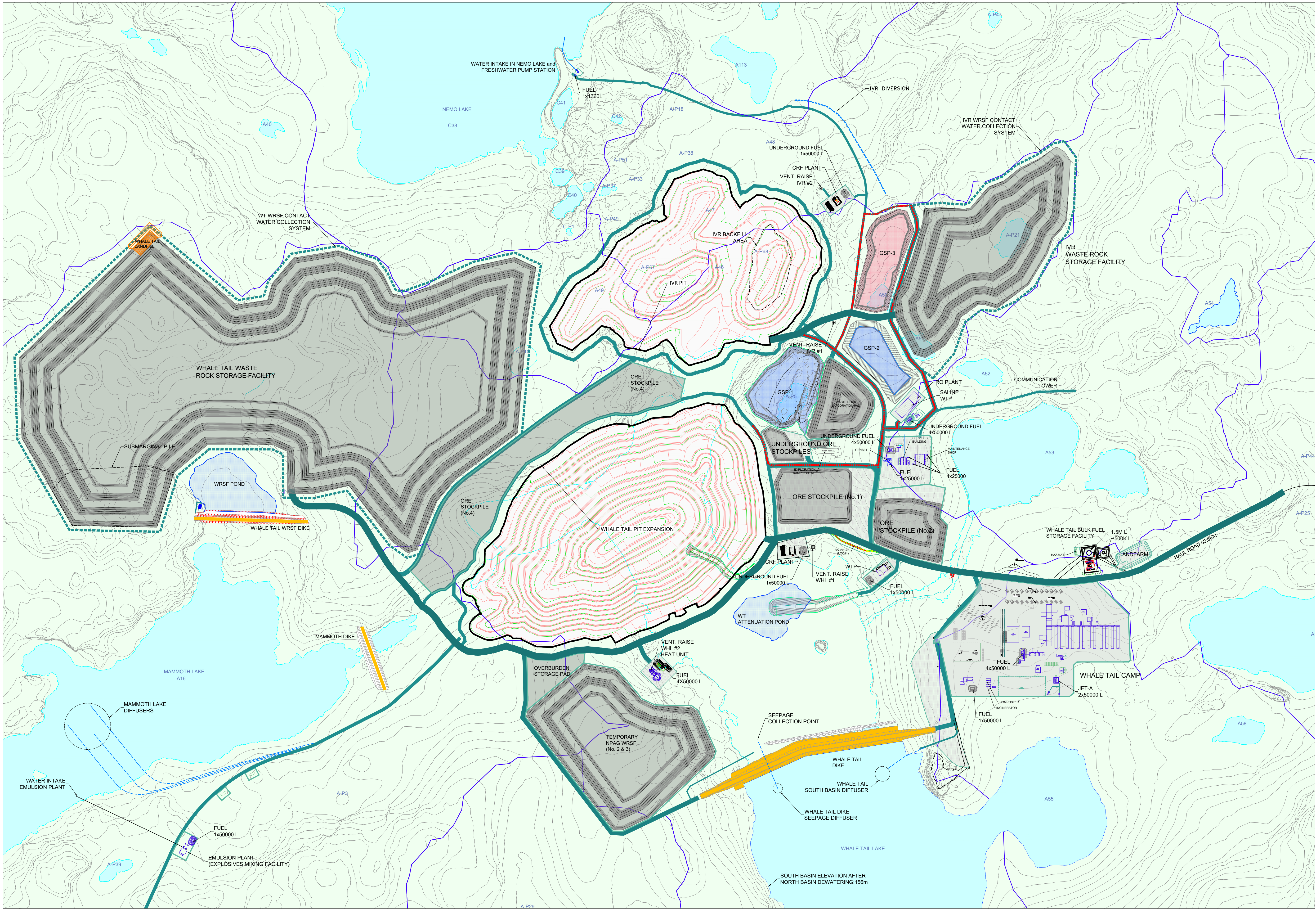
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APPROVED BY

ÉCHELLE
SCALE 1:6000

DATE
2019-05-02

NO. DESSIN
DRAWING NO. 2021Q4

NO. PROJET PROJECT NO. 6117	REVISION v8	FEUILLE / SHEET 3 / 6
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PLAN CLÉ
KEY PLAN



NOTES GÉNÉRALES / GENERAL NOTES

LEGEND	
	- WATERSHED
	- ATTENUATION POND
	- WATER PIPE
	- LAKE WATER
	- OPEN PIT
	- HAUL ROAD, LARGE WIDE
	- HAUL ROAD, SINGLE LANE
	- SERVICE ROAD
	- ROAD, SALT PROTECTION
	- ROCK PILE
	- WATER POND
	- PAD
	- BUILDING

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TITRE / TITLE	# DWG
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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/EN	APP.	CLIENT

REVISIONS

AMARUQ
PROJECT

TITRE / TITLE
AGNICO EAGLE — MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 — SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR
DRAWN BY J.CRETE

DATE
2019-05-02

VÉRIFIÉ PAR
CHECKED BY J.MOSQUERA

DATE
2019-05-02

APPROUVÉ PAR
APPROVED BY

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SCALE 1:6000

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2019-05-02

NO. DESSIN
DRAWING NO. 2022Q4

NO. PROJET
PROJECT NO. 6117

REVISION
v8

FEUILLE / SHEET
3 / 6



ISSUED FOR
PERMITTING

DATE : 2

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

-
- Figure 1: A legend for the 2D cross-section model of the roadbed. It lists 12 components with corresponding color-coded icons:
- 1. WATERSHED
 - 2. ATTENUATION POND
 - 3. WATER PIPE
 - 4. LAKE WATER
 - 5. OPEN PIT
 - 6. HAUL ROAD, LARGE WIDE
 - 7. HAUL ROAD, SINGLE LANE
 - 8. SERVICE ROAD
 - 9. ROAD, SALT PROTECTION
 - 10. ROCK PILE
 - 11. WATER POND
 - 12. PAD
 - 13. BUILDING

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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
REVISIONS					

AMARUQ
PROJECT

TITRE / TITLE

AGNICO EAGLE - MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 - SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

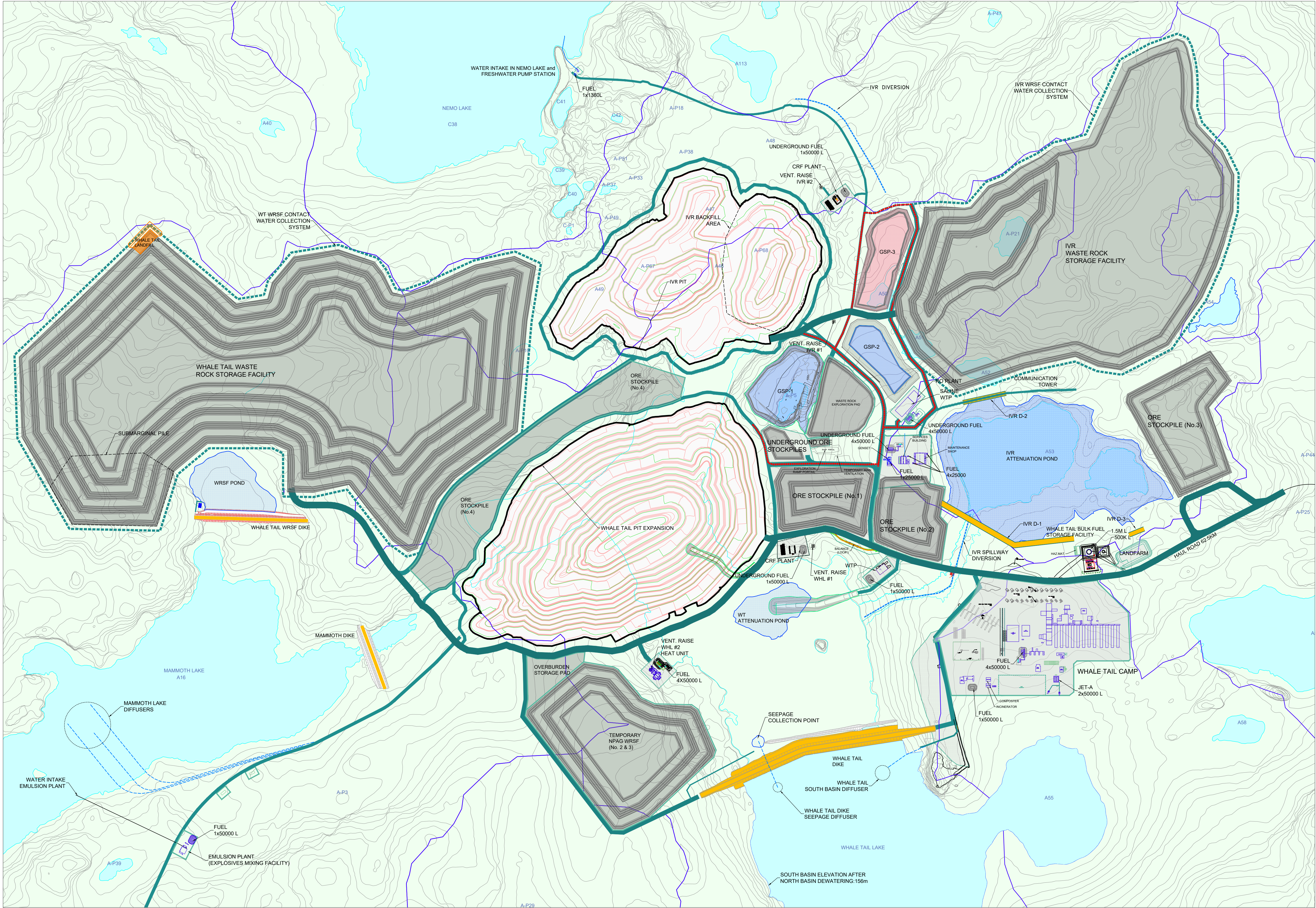
DESSINÉ PAR DRAWN BY	J.CRETE	DATE 2019-05-02
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VERIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
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APPROUVE PAR APPROVED BY		

ECHELLE SCALE	1:6000	DATE	2019-05-02
NO. DESSIN			

DRAWING NO.		2023Q4	
NO. PROJECT PROJECT NO.	6117	REVISION	FEUILLE / SHEET
		v8	3 / 6



PLAN CLE
KEY PLAN



NOTES GÉNÉRALES / GENERAL NOTES

LEGEND	
	- WATERSHED
	- ATTENUATION POND
	- WATER PIPE
	- LAKE WATER
	- OPEN PIT
	- HAUL ROAD, LARGE WIDE
	- HAUL ROAD, SINGLE LANE
	- SERVICE ROAD
	- ROAD, SALT PROTECTION
	- ROCK PILE
	- WATER POND
	- PAD
	- BUILDING

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TITRE / TITLE	# DWG



REV.	DATE	DESCRIPTION	PAR/EN	APP.	CLIENT

AMARUQ PROJECT

TITRE / TITLE
AGNICO EAGLE - MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 - SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR
DRAWN BY J.CRETE

DATE
2019-05-02

VÉRIFIÉ PAR
CHECKED BY J.MOSQUERA

DATE
2019-05-02

APPROUVÉ PAR
APPROVED BY

ÉCHELLE
SCALE 1:6000

DATE
2019-05-02

NO. DESSIN
DRAWING NO. 2024Q4

NO. PROJET
PROJECT NO. 6117

REVISION
v8

FEUILLE / SHEET
3 / 6



ISSUED FOR
PERMITTING
2019-05

DATE : 2

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

-  - WATERSHED
-  - ATTENUATION POND
-  - WATER PIPE
-  - LAKE WATER
-  - OPEN PIT
-  - HAUL ROAD, LARGE WIDE
-  - HAUL ROAD, SINGLE LANE
-  - SERVICE ROAD
-  - ROAD, SALT PROTECTION
-  - ROCK PILE
-  - WATER POND
-  - PAD
-  - BUILDING

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REVISIONS

AMARUQ
PROJECT

TITLE / TITLE
AGNICO EAGLE - MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 - SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

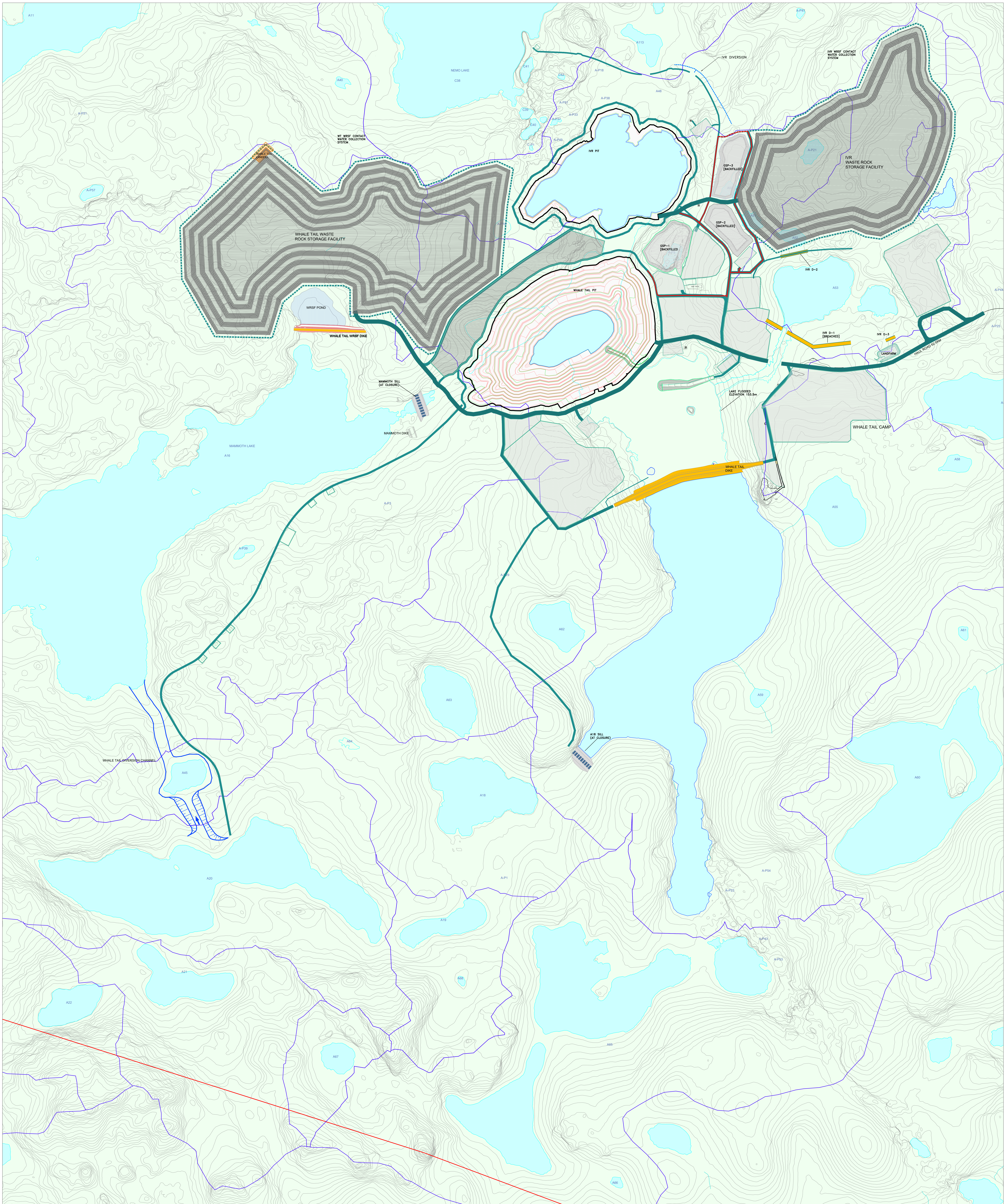
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VERIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVE PAR		

APPROUVE PAR APPROVED BY		
ECHELLE	DATE	

SCALE	1:6000	2019-05-02
NO. DESSIN DRAWING NO.		

NO. PROJECT PROJECT NO.			REVISION	FEUILLE / SHT
6117			v8	3 / 6



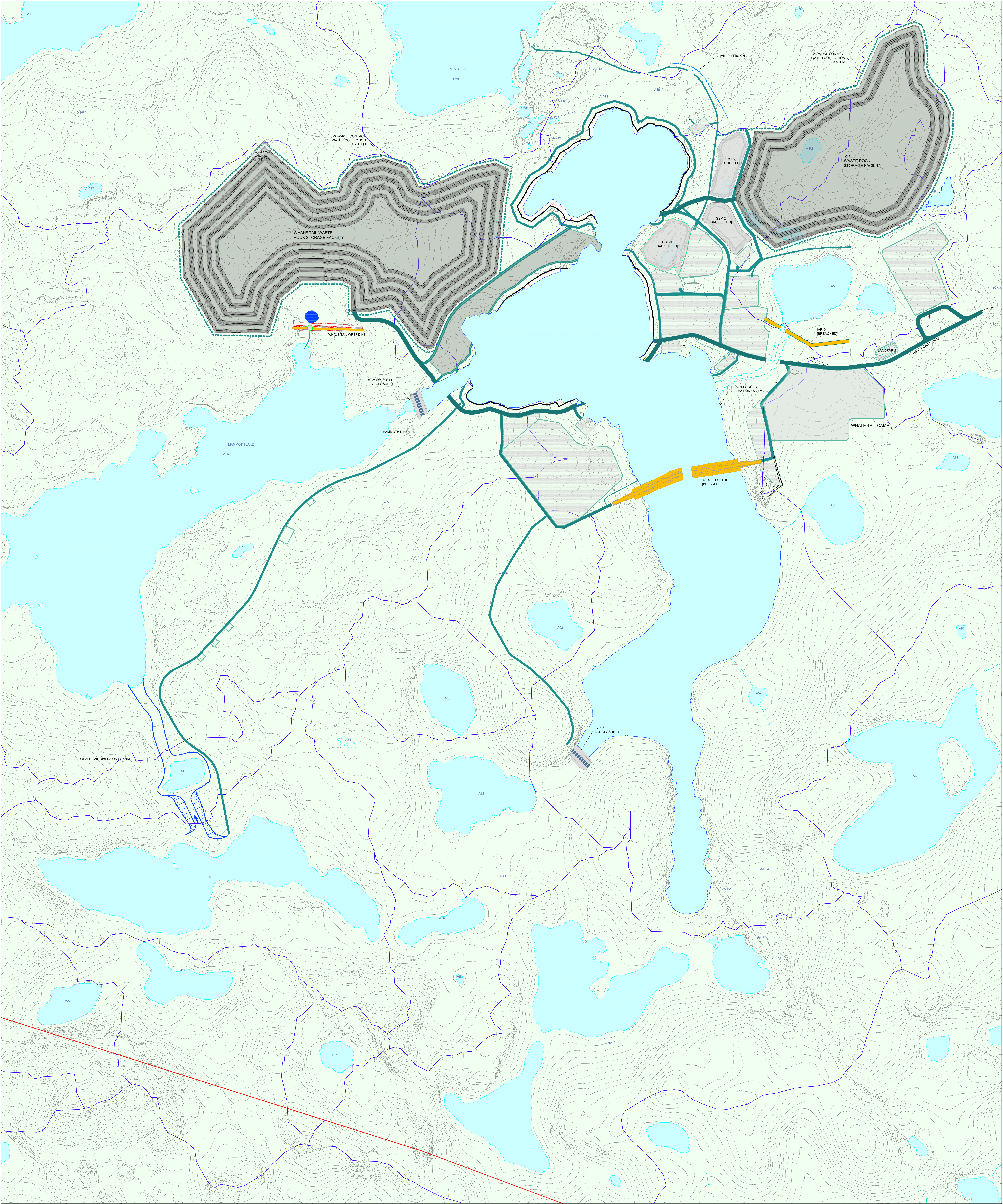
LEGEND

- WATERSHED
- ATTENUATION POND
- LAKE WATER
- OPEN PT
- HAUL ROAD, LARGE WIDE
- HAUL ROAD, SINGLE LANE
- SERVICE ROAD
- ROAD, SALT PROTECTION
- ROCK PILE
- WATER POND
- PAD
- BUILDING
- SILL
- WEIR

ISSUED FOR PERMITTING
ADRIANO ENRIQUE DATE : 2019-05-06

TITRE / TITLE	# DWG	REV	DESCRIPTION	DATE	PAR BY
DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS		REVISIONS			

AMARUQ
PROJECT[illegible]



LEGEND

WATERSHED

ATTENUATION POND

LAKE WATER

OPEN PIT

HAUL ROAD, LARGE WIDE

HAUL ROAD, SINGLE LANE

SERVICE ROAD

ROAD, SALT PROTECTION

ROCK PILE

WATER POND

PAD

BUILDING

SILL

WEIR

NOTES GÉNÉRALES / GENERAL NOTES

TITRE / TITLE	# DWG	REV	DESCRIPTION	DATE	PAR BY
DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS			REVISIONS		

AMARUQ
PROJECT

DESIGNER JOCELYN CRETE	DATE 2019-05-02	TITLE / TITLE AGNICO EAGLE — MEADOWBANK DIVISION AMARUQ MINE PROJECT 005 — SITE PREPARATION 210 GENERAL ARRANGEMENT AMARUQ MINE SITE ARRANGEMENT — PERMITTING
CHECKED BY J. MOSQUERA	DATE 2019-05-02	
APPROVED FOR PROJECT NO. 6117		
DATE	SCALE NTS	SHEET 2042 POST CLOSURE
		REVISION v8
		SHEET / SHEET 1 / 1

FILE NO.

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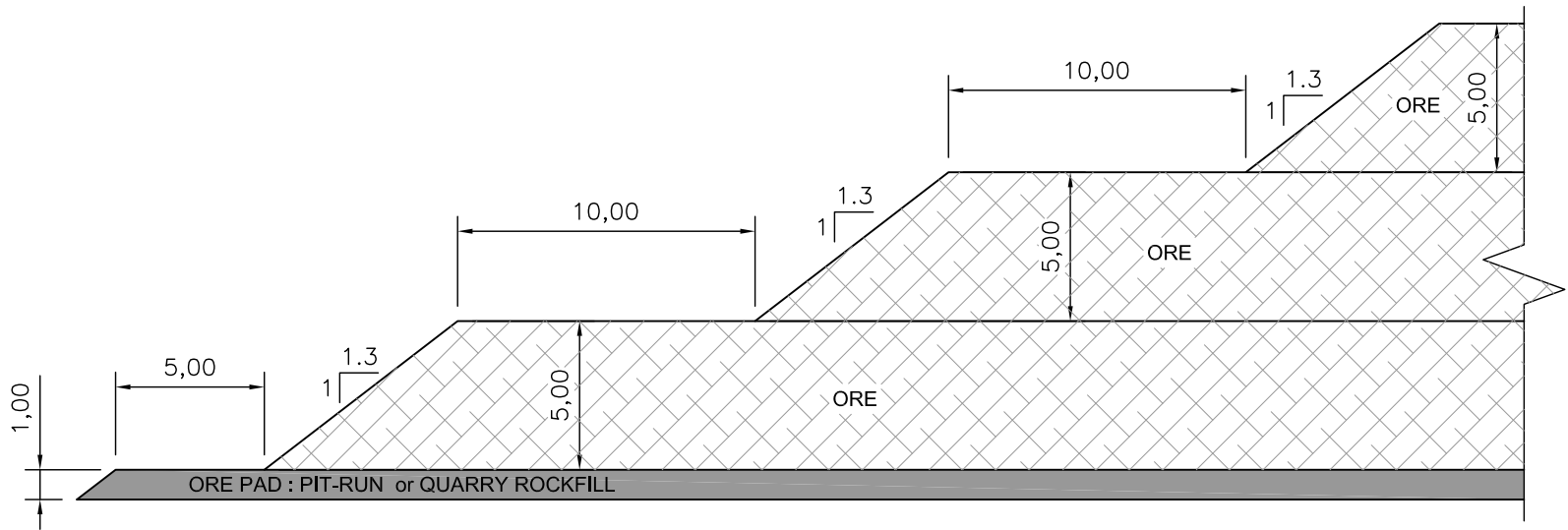
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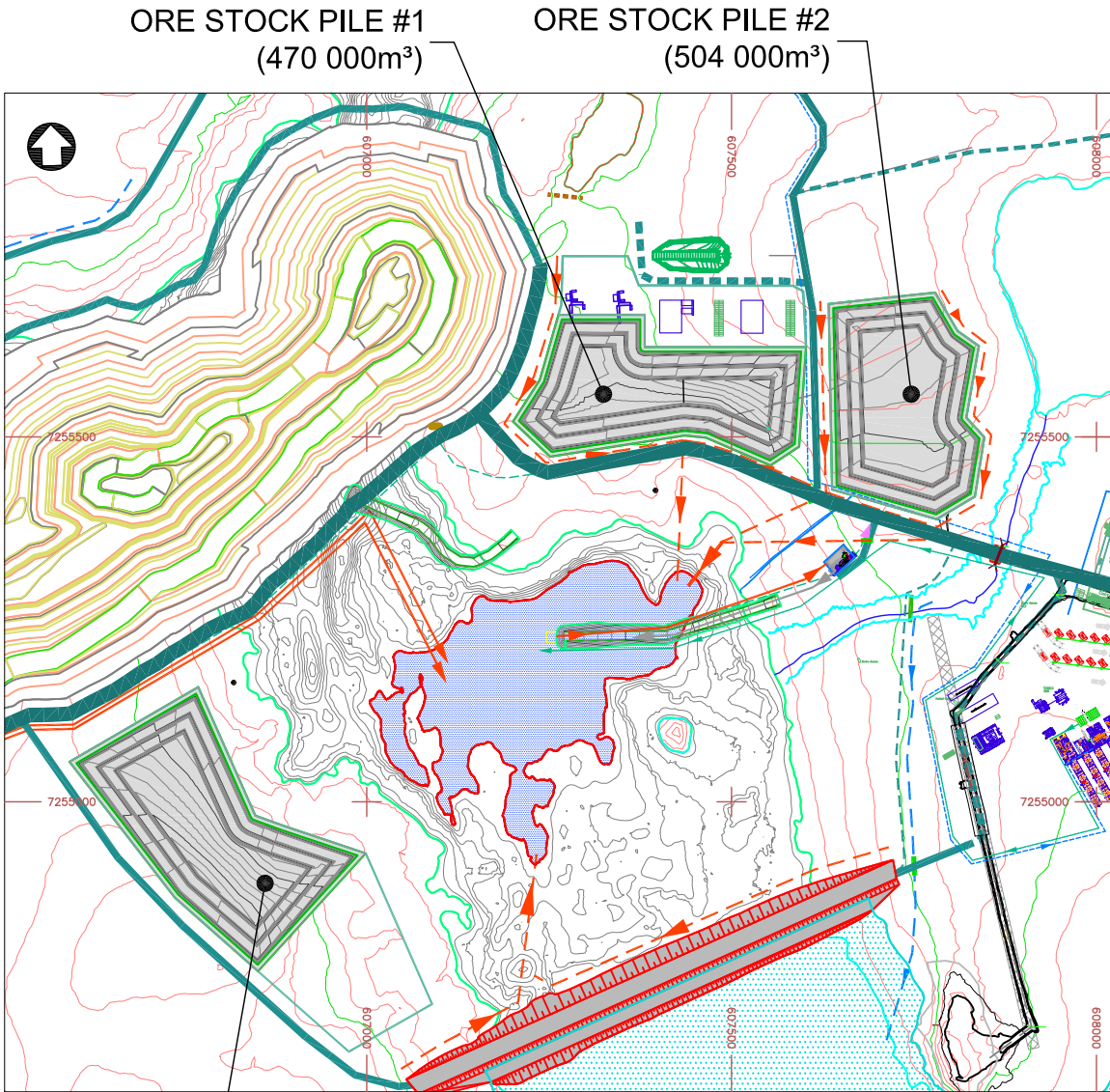
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TYPICAL SECTION
SCL 1:250 (1H:1V)



PLAN VIEW
SCL 1:10000

ISSUED FOR PERMITTING
AGNICO EAGLE
DATE : 2016-05-03

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TITRE / TITLE	# DWG	REV	DESCRIPTION	DATE	PAR BY
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DESSINÉ PAR DRAWN BY	J.CRETE	DATE	2016-05-02
VÉRIFIÉ PAR CHECKED BY	F.PETRUCCI	2016-05-03	
APPROUVÉ PAR APPROVED BY	S. OUELLET	2016-05-03	
No. PROJET PROJECT NO.	6108		
DATE	2016-05-02		
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TITRE / TITLE		AGNICO-EAGLE -- MEADOWBANK DIVISION	
		WHALE TAIL PIT PROJECT	
		ORE STOCK PILE #1, #2, #3	
		ORE PAD MAXIMUM CAPACITY	
		PLAN VIEW & TYPICAL SECTION	
ECHELLE/ SCALE	A/S	FICHIER FILE	.DWG
No. DESSIN/ DRAWING NO.	6108-687-210-001	REVISION	0
		FEUILLE/SHT	1 / 1