MEADOWBANK COMPLEX

WHALE TAIL MINE MAIN CAMP PAD EXTENSION

CONSTRUCTION SUMMARY REPORT
MEADOWBANK COMPLEX

Submitted by:
Agnico Eagle Mines Limited
Meadowbank Division
P.O. Box 540
Baker Lake, Nunavut
X0C 0A0

December 20, 2022

Approved by:

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NAPEG Member # L5197

Ryan Cosgrove

Digitally signed by Ryan Cosgrove
Date: 2022.12.20 12:17:10 -06'00'

EXECUTIVE SUMMARY

The construction of the Whale Tail Main Camp Pad Extension was carried out from September 12th to September 23rd, 2022. The purpose of the Pad is to accommodate the addition of a new wing to increase the capacity of the Whale Tail camp. The controls applied during the construction of the Pad were used to ensure that the work was completed in compliance with the Construction Drawings; however, the design was altered compared to the original drawings submitted for the 60 days' notice. These modifications included earthworks such as excavation and fill placement.

Before construction began, the initial design was modified as an 5kV electrical cable crossed the camp extension Pad limits. A minimum of 1.2m of aggregate was required above the cable to protect it from the blast rock placement for the Pad construction. This required the entire Pad to be raised 1.2m above the original 60-day notice design. Furthermore, the Pad was extended to the southwest so light and emergency vehicles could pass around the new wing.

DOCUMENT CONTROL

Date	Revised Section	Revision
12/20/2022	-	For Submission

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Section 1 Introduction

The objective of the Pad is to welcome a new wing of approximately twenty (20) additional rooms for workers are added to the existing camp. The location of the Pad is at the east extremity of the camp. The arctic corridor needs to be extended to connect the main camp to the new wing. This construction report presents a summary of the construction activities, the QA/QC activities, as well as the overall information used to produce the as-built drawings of the Pad extension.

1.1 Roles and Responsibilities

The Engineering Design and Construction Drawings for the Pad were developed by the Engineering department of the Meadowbank Complex of Agnico Eagles Mines LTD. The Mine Operations department of the Meadowbank Complex was mandated to execute and supervise the work. The Open Pit Engineering Coordinator was the main point of contact between the stakeholders of the project. The Production Engineer was responsible for the Quality Assurance (QA) to ensure the Pad was built as per construction drawings (different from the drawings originally submitted for the 60 days' notice). All fill material was taken from the Whale Tail Pit in sampled and delimited areas of NAG material; therefore, no QC was present or required for the Pad construction, visual assessment was done by QA during field visits.

Table 1 presents a summary of the general roles and responsibilities for each of the parties involved during the Pad construction. This table also includes the key personnel that contributed to construction activities.

Table 1: Roles, Responsibilities and Key Personnel for the Whale Tail Mine Main Camp Extension

Department	Role	Responsibility	Key Personnel	Position
Engineering	Owner and Designer	Project Management	Antoine Laporte	Open Pit Engineering Coordinator
		QA during construction	Ryan Griswold and Vincent Jodoin	Production Engineers
		Provide Engineering Design & Construction Drawings for the Pad	Antoine Laporte	Open Pit Engineering Coordinator
Mine Operations	Earthworks	Carry out Pad construction activity. Supervise work.	Walter Standing and Ian Bourassa	Mine Operations General Supervisors
Energy and Infrastructure	Earthworks and Electrical	Bury the 5kV electrical cable with aggregates and supervise this work	Jonathan Ball	E&I Field Supervisors

1.2 Definitions of Terms Used in this Document

The following table presents the definitions of the terms used in this report.

Table 2: Definitions of Terms

Term	Definition
AEM	Agnico Eagle Mines Limited, Owner.
As-built drawing	Document showing no new concept. It is the graphical representation of a built structure showing the real measurements. It is an inventory of what was built for reference.
Approval	A written engineering or geotechnical opinion, related to the progress and completion of the Work.
Builder	AEM Mine Operations
Designer	AEM Engineering
NAG	A material that has been geochemically classified as not being acid generating.
Owner	Agnico Eagle Mines Limited, Meadowbank Complex (AEM).
Quality Assurance (QA)	A planned system of inspection and testing that document, to the satisfaction of the Owner, other stakeholders, and regulator that the Work complies with the design and Drawings. Quality Assurance forms a subset of the Quality Control program. Quality Assurance comprises inspections carried out during Quality Control and includes verifications, evaluations of materials and workmanship necessary to determine and document the quality of the constructed facility. Quality Assurance refers to the measures taken to assess whether the Builder follows the design intent and Drawings
Quality Control (QC)	A planned system of inspection, testing and documentation carried out by the Builder during construction to ensure that the Work is being performed and completed in a manner that complies with the Drawings and Specifications. The Builder is responsible for the Quality Control of all Work performed by him and all Work performed by any Subcontractor under contract with him.
Earthworks	All activities associated with material placement of the Whale Tail Mine Main Camp Extension

1.3 Description of the Structure Built

The structure is a flat rockfill Pad that extends the main camp complex Pad to the southeast over the tundra. It is approximately 45m x 75m in size with a variable thickness from 1.2-2m thick. Once blast rock was placed to construction the main body of the Pad, NAG aggregate (crushed NAG blast rock) was placed on top to create a smooth surface for the construction of the artic corridor and wing.

1.4 Construction Documents

The Initial Drawings submitted for the 60 days' notice were completed by AEM Engineering in August 2022. The design was then altered to properly bury the 5kV electrical cable with aggregate which also required the Pad to be raised. Additionally, the south end of the Pad was extended to ensure proper vehicle access was maintained around the camp wing. The final design drawings were created in August 2022. Table 3 presents the available construction documents for the Whale Tail Main Camp Extension.

Table 3: List of Construction Drawings for the Whale Tail Main Camp Extension

Date	Rev	Title
2022/08/03	0	Camp Pad Extension - AA.pdf
2022/08/03	0	Camp Pad Extension - BB.pdf
2022/08/03	0	Camp Pad Extension - Plan.pdf
2022/08/03	0	Camp Pad Extension - Plan_Zoomedout.pdf

1.5 As-Built Drawings

Table 4 presents the as-built drawings for the Whale Tail Mine Main Camp Extension. The surveying was done by AEM Engineering surveyors, and the as-built drawings were done and verified by AEM Engineering. The as-built drawings are included in Appendix B.

Table 4: List of As-Built Drawings for the Whale Tail Mine Main Camp Extension

Date	Rev	Drawing Title	Description
2022/12/15	1	Camp Pad Extension - AA - As-builtV2.pdf	A-A' Cross-section
2022/12/15	1	Camp Pad Extension - BB - As-builtV2.pdf	B-B' Cross-section
2022/12/15	1	Camp Pad Extension - Plan As-builtV2.pdf	Aerial view of the as-built structure – close up
2022/12/15	1	Camp Pad Extension - Plan_Zoomedout - As builtV2.pdf	Aerial view of the as-built structure – site map

Section 2 Summary of Construction Activities and Schedule

This section presents the construction steps of the Whale Tail Mine Main Camp Extension Pad and the schedule of the work done.

2.1 Schedule and Construction Steps

The construction of the Whale Tail Mine Main Camp Extension Pad was carried out from September 12th to September 23rd, 2022. Work was performed on day shift and night shift and the below list outlines general construction steps taken to complete the project

- Survey Stakes laid out on the field.
- Inspection of the Pad footprint on the field to assess if any pipes or electrical or other hazards.
- Site preparation (5kv electrical line buried with aggregates).
- Construction of Whale Tail Mine Main Camp Extension Pad.

The work procedures followed during the construction of this Pad are discussed in the following subsections. Selected photographs of the work progress taken prior and following the construction are shown in Appendix C.

2.1.1 Site Preparation

The first step in the Pad construction was to bury the 5kV electrical line with NAG aggregates that crossed the tundra. The Energy and Infrastructure (E&I) department is the owner of electrical infrastructure on site and managed the cable bury. Mine Operations supported E&I by delivering NAG aggregate using the mine haul truck fleet.

2.1.2 Whale Tail Mine Main Camp Extension

The existing Pad was pushed from the existing Pad at the design elevation. The material was placed with a D10 Caterpillar dozer with NAG Pit run coming from Whale Tail Pit with 777s and 785s Caterpillar Haul Trucks. The level of the Pad was monitored by AEM Engineering surveyors to respect design.

The Pad and New Road 22 was built with 15,800m^3 of NAG Material.

Section 3 QA/QC Program and Results

3.1 Before material placement

Before the start of the material placement the Open Pit Engineering Coordinator conducted a visual assessment of the Pad footprint to ensure no dewatering infrastructures or electrical wires were present within the footprint the designed Pad. An electrical line (5kV) was found to cross the Pad limits which required it to by buried by aggregate material before the Pad could be constructed.

3.2 Material placement

During the construction, the Quality Assurance (QA) of the Pad was carried out by the AEM Engineering. The program included periodic inspection of fill placement to ensure the footprint of the Pad was not exceeded. Photographs of the work progress and activities were taken prior and post construction as presented in the photographic record in Appendix C.

Section 4 Design Changes and Field Adjustments

The initial design submitted for the 60 days' notice was modified to ensure the 5kV line was protected once the Pad was constructed on top. The Pad was raised 1.2m in elevation from the original design. It was also extended to the south as room for vehicles to drive around the new wing was required.

Section 5 Operation, Maintenance and Surveillance

A monitoring program is essential to ensure the integrity of this structure, especially at freshet. The monitoring program for this structure will be included within the Whale Tail pits and roads inspection conducted on a monthly basis.

APPENDIX A – 60 Days' Notice Drawings

Whale Tail Pit

Pipe crossing required

N

WENCO

IVR WRSF

Stockpile

Pad E

Pad K

Main Camp Pad

ONLY DISTURBED BEFORE SURVEY

Location of Camp Pad Extension

REGISTERED PROFESSIONAL ENGINEER
A. LAPORTE
LICENSEE
#L3042
NT/NU
2022-08-03

15,000E

17,000E

Proposed camp extenstion

LEASE LIMIT

Electrical wire - will require relocation prior to construction of pad

Pad will require 2200m3 or 5000t of NAG pit run

The pad is constructed within the lease limit

Pad Dimensions
- 45m from end of current wing
- 55m long with road access from north and south
- 16m from corner of planned extension to edge of pad

AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE
RG	8/03/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Camp Pad Extension
Overview - As Built Revision

SCALE	DATE	FILE
N.T.S.	8/03/2022	DWG

Prior to construction and following the placement of pickets of the pad design from survey, as inspection (QA/QC) from the Production Engineer, E&I Electrical Rep, and IT must be completed to ensure all infrastructure is outside the design

Proposed camp extenstion

LEASE LIMIT

Electrical wire - will require relocation prior to construction of pad

Pad will require 2200m3 or 5000t of NAG pit run

The pad is constructed within the lease limit

Pad Dimensions
- 45m from end of current wing
- 55m long with road access from north and south
- 16m from corner of planned extension to edge of pad

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MEADOWBANK

DRAWN BY	RG	DATE	8/03/2022
SURVEY CHECK		DATE	
GEOLOGY CHECK		DATE	
ENGINEERING CHECK		DATE	

MODIFIED BY	DATE

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Camp Pad Extension

SCALE	DATE	FILE
N.T.S.	8/03/2022	.DWG

Section A-A

AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE
RG	8/3/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Camp Pad Extension
A-A'

SCALE	DATE	FILE
N.T.S.		.DWG

Section view B-B

AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE	MODIFIED BY	DATE
RG	8/3/2022		
SURVEY CHECK	DATE		
GEOLOGY CHECK	DATE		
ENGINEERING CHECK	DATE		

MEADOWBANK DIVISION

ENGINEERING

Amaruq Project

Camp Pad Extension

B-B'

SCALE	DATE	FILE
N.T.S.		.DWG

APPENDIX B – As-Built Drawings

15,000E

16,000E

17,000E

7,000N

6,000N

Whale Tail Pit

Pipe crossing required

N

WENCO

Stockpile

Pad E

Whale Tail Attenuation Pond

IVR WRSF

IVR Attenuation Pond

Pad K

Main Camp Pad

ORE BURIED BEFORE SURVEY

Location of Camp Pad Extension

Proposed camp extenstion

LEASE LIMIT

REGISTERED PROFESSIONAL ENGINEER
A. LAPORTE
LICENSEE
L1502
NT/NU
2022-12-17

AS BUILT IN LIGHT GREEN
DESIGN IN ORANGE

AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE
RG	8/03/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE
VJODOIN	12/12/2022
RGRISWOLD	12/16/2022

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project

Main Camp Pad Extension

Overview - As Built

SCALE	DATE	FILE
N.T.S.	8/03/2022	DWG

15,750E

16,000E

5,750N

A

B

LEASE LIMIT
DEWATERING PIPES
Electrical wire

Total tonnes = 15 800t
Totam Volume = 7180m3

AS BUILT IN LIGHT GREEN
DESIGN IN ORANGE

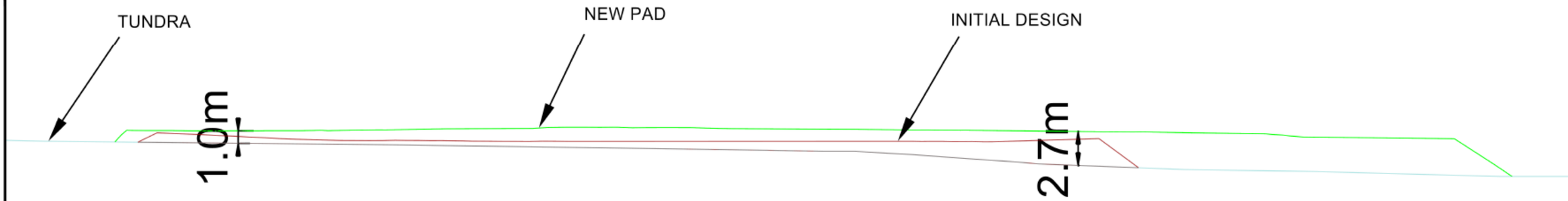
AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE
VJODOIN	12/12/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE
RGRISWOLD	12/16/2022

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Main Camp Pad Extension
Close-up View - As Built

SCALE	DATE	FILE
N.T.S.	6/16/2022	.DWG



REGISTERED PROFESSIONAL ENGINEER
A. LAPORTE
LICENSEE #L5022
NT/NU
2022-12-17

-Pad built above design to ensure electrical cable was protected properly
- Pad was extended to the south to allow vehicle traffic around the new camp wing

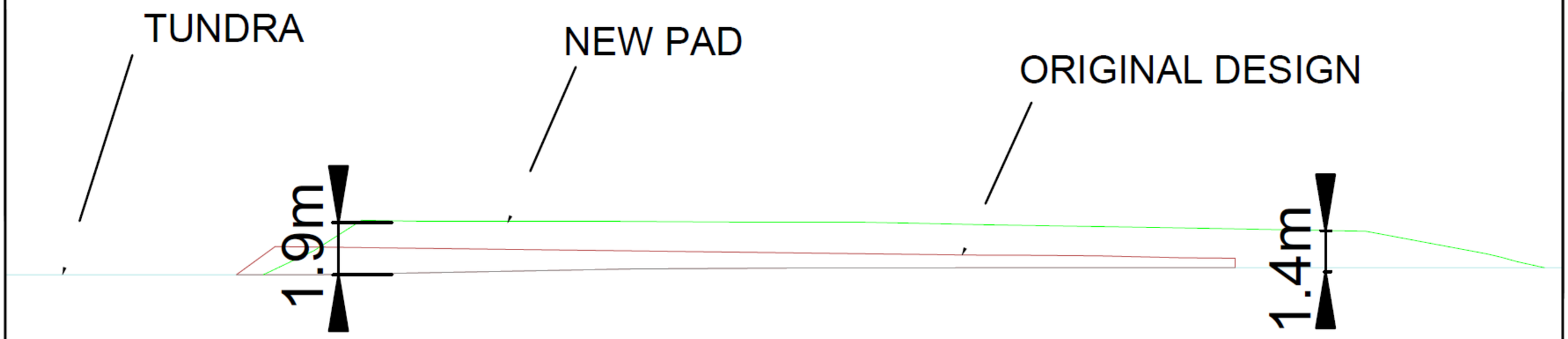
AGNICO EAGLE
MEADOWBANK

DRAWN BY	DATE
RG	8/3/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE
VJODOIN	12/12/2022
RGRISWOLD	12/16/2022

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Camp Pad Extension
A-A'

SCALE	DATE	FILE
N.T.S.		.DWG



- Pad built above design to ensure electical cable was protected properly
- To ensure pad was not overbuilt the toe was pushed short of the final design

AGNICO EAGLE
MEADOWBANK

DRAWN BY: RG	DATE: 8/3/2022
SURVEY CHECK	DATE
GEOLOGY CHECK	DATE
ENGINEERING CHECK	DATE

MODIFIED BY	DATE
VJODOIN	12/12/2022
RGRISWOLD	12/16/2022

MEADOWBANK DIVISION
ENGINEERING
Amaruq Project
Camp Pad Extension
B-B' AS-BUILT

SCALE	DATE	FILE
N.T.S.		.DWG

APPENDIX C – Construction Photographs

Photo 1. Construction area prior to NAG rock placement

Photo 2: Final Pad construction