AtkinsRéalis

Horizontal Directional Drilling (HDD) – As-Built report

Agnico Eagle Mines Limited

2024-12-02
Client document No: 6537-180-232-REP-002

O/Ref. 674195

MELIADINE SALINE EFFLUENT DISCHARGE SYSTEM

SIGNATURES

PERMIT TO PRACTICE
ATKINSREALIS CANADA INC.
Signature
Date 2024-12-02
PERMIT NUMBER: P 260
NT/NU Association of Professional Engineers and Geoscientists

Prepared by :

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2024-12-02

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2024-12-02

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Notice

This document and its contents have been prepared and are intended solely as information for Agnico Eagle Mines Limited and use in relation to the as-built reporting process for the HDD related work.

AtkinsRéalis assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

This document has 78 pages including the cover.

Document history

Document title: Horizontal Directional Drilling (HDD) – As-Built report

Document reference: Revision	Purpose description	Originated	Checked	Reviewed	Authorised	Date
A	For comments	ICB	ICB	ICB		2024-10-25
B	For comments	ICB	ICB	PST		2024-11-13
0	Issued for As-built	ICB	ICB	PST		2024-12-02

Client signoff

Client	Agnico Eagle Mines Limited
Project	Meliadine Saline Effluent Discharge System
Job number	6537
Client signature/date	

Contents

Tables

Figures

1. Introduction

Agnico Eagle Mines Ltd. (Agnico Eagle) operates the Meliadine Gold Mine near Rankin Inlet and is currently in the process of building a saline effluent discharge system between the Mine site and Itivia Harbour. Before reaching the diffuser, the final piping section will traverse a rock outcrop to access the water. Horizontal Directional Drilling (HDD) will be used from the land portion to facilitate this passage. This method allows the safe and efficient discharge of treated saline effluent into the sea while taking all necessary environmental and safety precautions into account. Importantly, choosing to go through the bedrock is a strategic decision. This approach provides protection for the infrastructure and prevents it from being damaged by sea ice.

Agnico Eagle have retained AtkinsRéalis to design a part of the Meliadine saline effluent discharge system between the Meliadine Mine and Itivia Harbour, including the HDD work in Melvin Bay. As part of the scope of work, Agnico Eagle asked AtkinsRéalis to:

- Conduct a detailed design for the HDD, the HDD work area, an access road and a drilling mud containment area;
- Produce construction drawings and specifications for the same components;
- Prepare design and construction summary reports for the same components.

AtkinsRéalis was not part of any onsite activities during the construction, and the current report is based on reports and documents supplied by Agnico Eagle.

This report is intended to summarize the construction work performed by Agnico Eagle, as required per the Nunavut Water Board (NWB) Water License 2AM-MEL1631. The following are included in this report:

- Construction summary;
- The field decisions that deviate from the original plans;
- Survey drawing of the HDD area;
- Photographs of the performed work;
- Inspection report.

2. Construction summary

2.1 Site location

Figure 1 and Figure 2 below indicate the geographical location of Rankin Inlet and the HDD site.

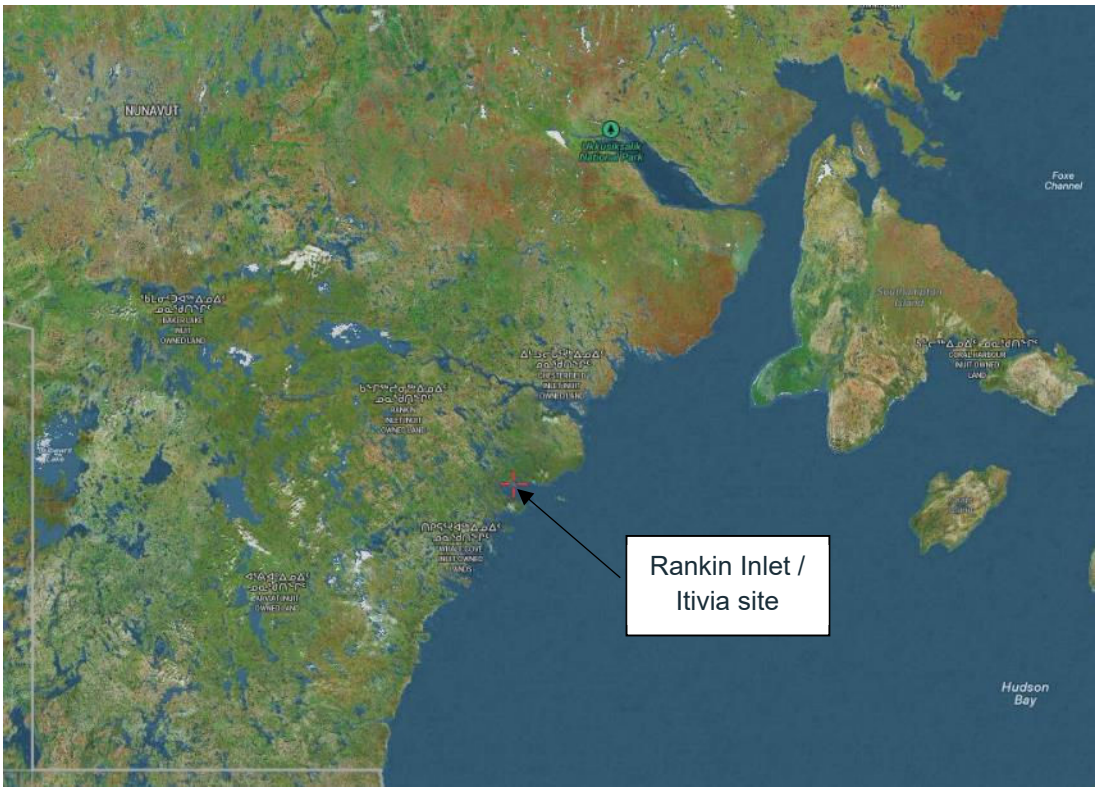


Figure 1 - Rankin Inlet

Figure 2 - HDD site

2.2 Construction schedule

Construction activities at the HDD site were conducted between June 30th 2024 and September 16th 2024, with the various activities detailed in Table 1.

The HDD work was initially planned to be completed by fall 2024, but a drill alignment issue caused the work to be halted for the season. HDD work is currently scheduled to resume for the 2025 season, pending regulatory approvals are in place. The drilling mud containment area was left in place for this reason.

Table 1 - Construction schedule

Item	Start date	End date
Material, site and equipment preparation	2024-06-30	2024-08-19
Drilling mud containment - Under liner material placement	2024-06-30	2024-07-06
Drilling mud containment - Liner installation	2024-07-30	2024-07-30
Access road	2024-06-30	2024-07-15
HDD work area	2024-07-15	2024-08-01
Partial drilling of the borehole	2024-08-28	2024-09-07
Temporary demob for the season	2024-09-10	2024-09-16

2.3 Survey drawing and photographs

During the construction surveys were conducted to validate construction is as per design and record the as-built. A survey drawing of the area is in Appendix A.

Photographs taken during the various construction phases are supplied in Appendix B.

3. Field decisions

This section documents variations from the original design which were approved by Agnico Eagle's field engineer on site. AtkinsRéalis was not advised of these changes before the work was performed. The design intent was kept with no impact on the safety, while requiring a smaller overall footprint in the area below the Higher High Water, Large Tide (HHWLT) limit.

A construction summary was prepared for the HDD work by the Agnico Eagle construction team. This summary is available in Appendix C.

Due to the lease agreement, the drilling mud containment area location and shape were modified, resulting in a retention capacity loss of around 17%. The containment height and internal slopes were kept as per design. The

retention capacity loss was deemed non-problematic as the theoretical ~500 m³ volume left was enough to contain the cuttings and the drilling water.

Due to presence of a large bollard, the access road was moved to the north side of the drilling mud containment area, with no impact on the design intent.

The HDD work area size was also minimized to limit the footprint on the ground below the HHWLT.

The initial design called for the membrane being placed over the dike of the containment up to the outside toe, but a decision was made to instead use the “key trench” method at the top of the dyke to minimize the required membrane. This modification can be seen in the pictures in Appendix D.

Even if the drilling is not completed and is planned to be resumed in 2025, part of the water in the drilling mud containment was removed and sent back to the mine site for disposal. The cuttings were also removed with a vacuum truck and brought back to the Meliadine Mine site, to leave the containment pond empty of all material before winter.

To minimize the 0-30 mm granular fill required for the containment, only the last 300 mm under the membranes used this material. 0-150 mm granular fill was instead used for the bulk backfill.

4. As-built material quantities

The proposed and actual as-built material quantities are presented in Table 2 below.

Table 2 - As-built material quantities

Item	Proposed	Actual	Difference
540 g/m² non-woven geotextile (m²)	825	761	-64
High-density polyethylene (HDPE) Geomembrane (m²)	825	761	-64
Granular fill 0-30 (m³)	500	224	-276
Granular fill 0-50 (m³)	425	125	-300
Granular fill 0-150 (m³)	0	668	+668
Run Of Mine 0-600 (m³)	210	1356	+1146

5. Construction monitoring

The construction monitoring was managed by Agnico Eagle. Construction activities were visually monitored by the resident engineers throughout the duration of the project.

Regular environmental inspections took place during construction. A Qualified Environmental Professional (QEP) was also responsible for monitoring the HDD construction work daily. Sediment and erosion mitigation measures were implemented as required during construction, as per the Sediment and Erosion Management Plan.

The quality control of the liner installation of the drilling mud containment was performed by *Titan environmental containment* and their report can be seen in Appendix D[1]. Testing was performed to ensure quality of the welds to prevent any drilling mud migration through a leak. Both destructive and non-destructive tests were performed on the HDPE membrane to ensure that it was conforming to the standards of the geosynthetic industry.

Particle size analysis was not performed specifically for this project, but it was visually approved by Agnico Eagle personnel.

Rockfill material used for construction was sourced from Tiriganiaq Open Pit 1 and is non-potential acid generating.

[1] It should be noted that the portion related to the “Pipe Burrito” in the report is not related to the current project.

APPENDICES

Appendix A.

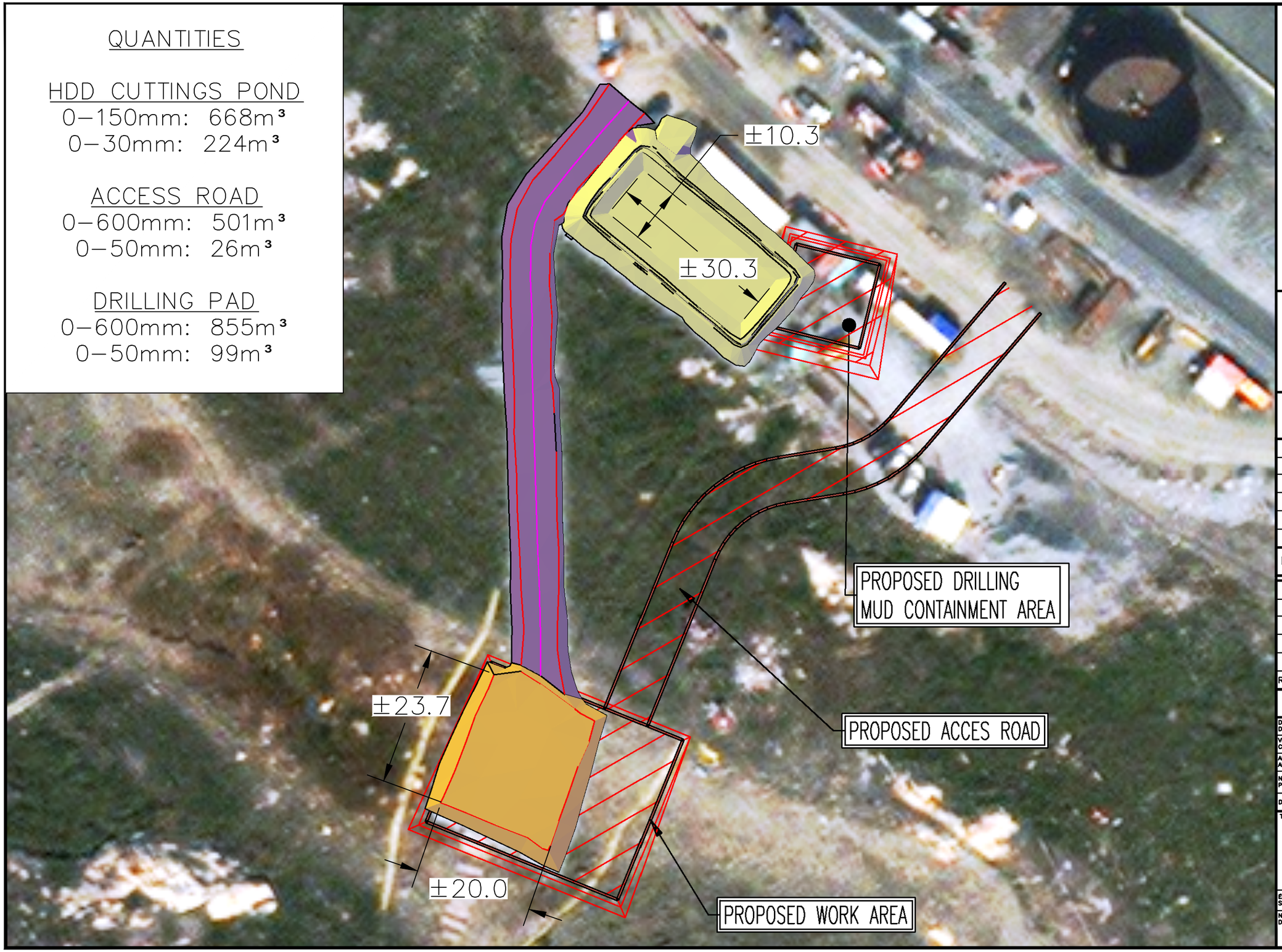
Survey Drawing

QUANTITIES

HDD CUTTINGS POND
0–150mm: 668m³
0–30mm: 224m³

ACCESS ROAD
0–600mm: 501m³
0–50mm: 26m³

DRILLING PAD
0–600mm: 855m³
0–50mm: 99m³



AGNICO EAGLE

HA HAMELARPENTAGE

TITRE / TITLE	# DWG

DESSINS EN RÉFÉRENCE/REFERENCE DRAWINGS

REV	DESCRIPTION	DATE	PAR BY
1	ADDED DIMENSION & OLD LAYOUT	2024–10–24	JFL

REVISIONS

DESSINÉ PAR DRAWN BY	JF Landreville	DATE	2024–10–16
VÉRIFIÉ PAR CHECKED BY			
APPROUVÉ PAR APPROVED BY			
No. PROJET PROJECT NO.	6537		
DATE	2024–10–16		

TITRE / TITLE
AGNICO–EAGLE – MELIADINE DIVISION
180 – HDD AREA
230 – EARTHWORKS
CUTTING POND, ACCESS ROD & PAD
AS–BUILT

ÉCHELLE/ SCALE	n.t.s.	FICHIER FILE	.DWG

No. DESSIN/ DRAWING NO.	REVISION	FEUILLE/SHT
65–180–142_AB HDD Area	1	1 / 1

Appendix B.

Photographic report

Pictures of Horizontal Directional Drilling (HDD)

30-06-2024 HDD Work Area before Earthworks began

30-06-2024 HDD Work Area before Earthworks began

30-06-2024 HDD Work Area before Earthworks began

30-06-2024 Layout of the Lined Containment Area

30-06-2024 Layout of the Lined Containment Area

30-06-2024 Layout of the Lined Containment Area

30-06-2024 Labelled Sik Sik Hole

03-07-2024 Layout of the Access Road to HDD Work Area

04-07-2024 150 mm minus Under Liner Material Placement of the Lined Containment Area

04-07-2024 150 mm minus Under Liner Material Placement of the Lined Containment Area

04-07-2024 150 mm minus Under Liner Material Placement of the Lined Containment Area, Southwest Corner

04-07-2024 150 mm minus Under Liner Material Placement of the Lined Containment Area, East Side

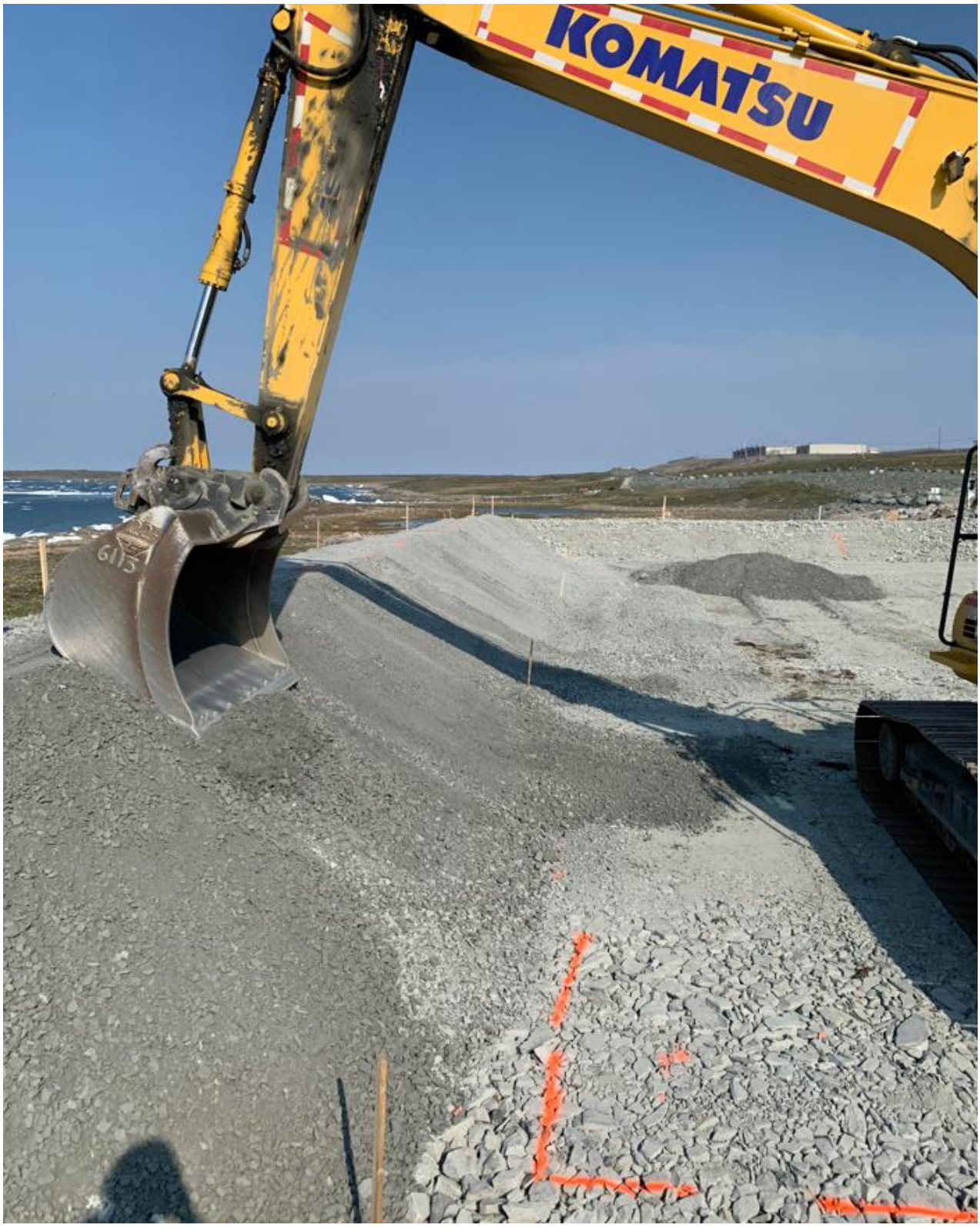
04-07-2024 Under Liner Material Placement of the Lined Containment Area

04-07-2024 600 mm minus Placement at the Access Road

04-07-2024 Access Road

04-07-2024 30 mm minus Under Liner Material Placement of the Lined Containment Area

04-07-2024 30 mm minus Under Liner Material Placement of the Lined Containment Area



04-07-2024 30mm minus Under Liner Material Placement of the Lined Containment Area

06-07-2024 Roller Packer over 30 mm minus Under Liner Material of the Lined Containment Area

06-07-2024 Roller Packer over 30 mm minus Under Liner Material of the Lined Containment Area

07-07-2024 600 minus of Access Road after Packing

06-07-2024 Under Liner Material Placement of the Lined Containment Area, South Side

07-07-2024 Under Liner Material Placement of the Lined Containment Area, West Side

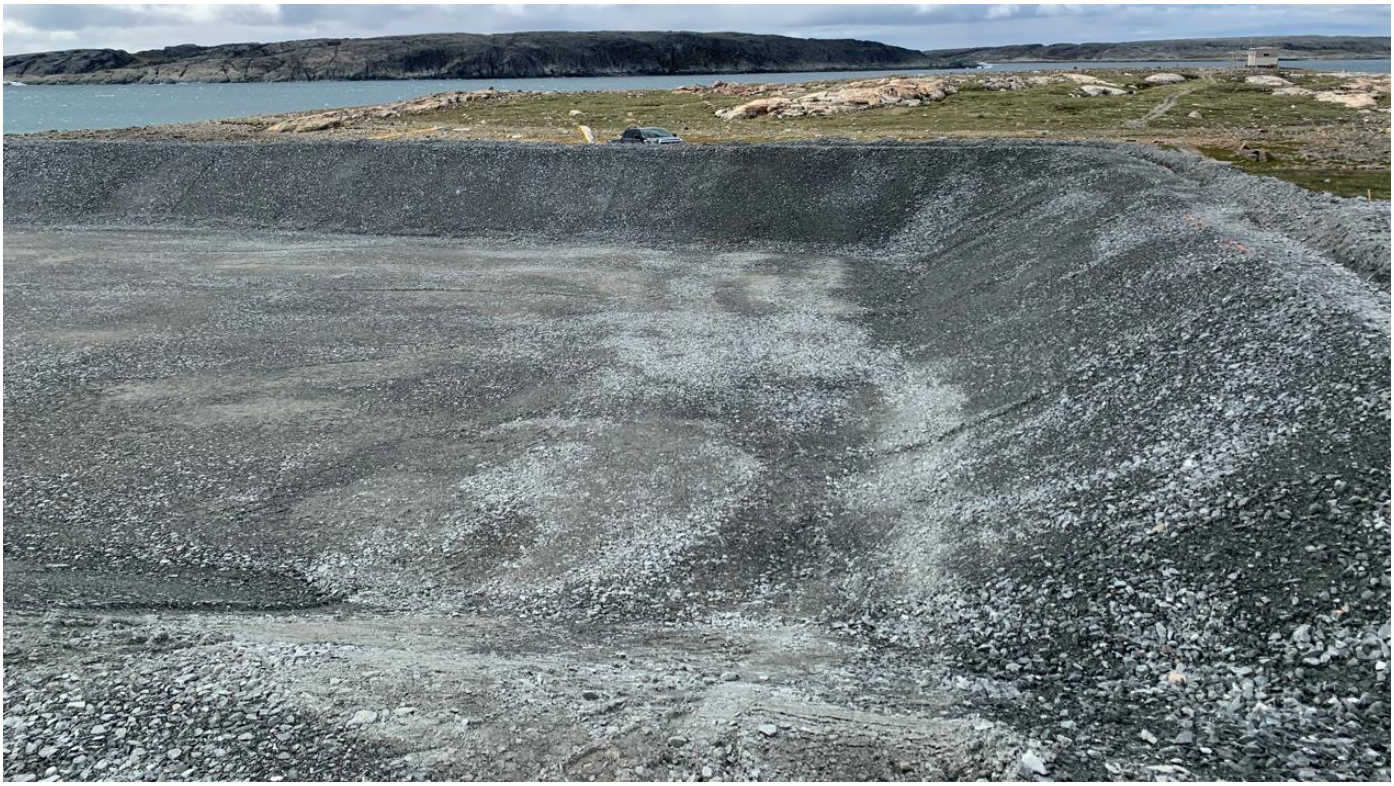
07-07-2024 Under Liner Material Placement of the Lined Containment Area, North Side

07-07-2024 Under Liner Material Placement of the Lined Containment Area, East Side

07-07-2024 Temporary Ramp to Access the Lined Containment Area, East Side

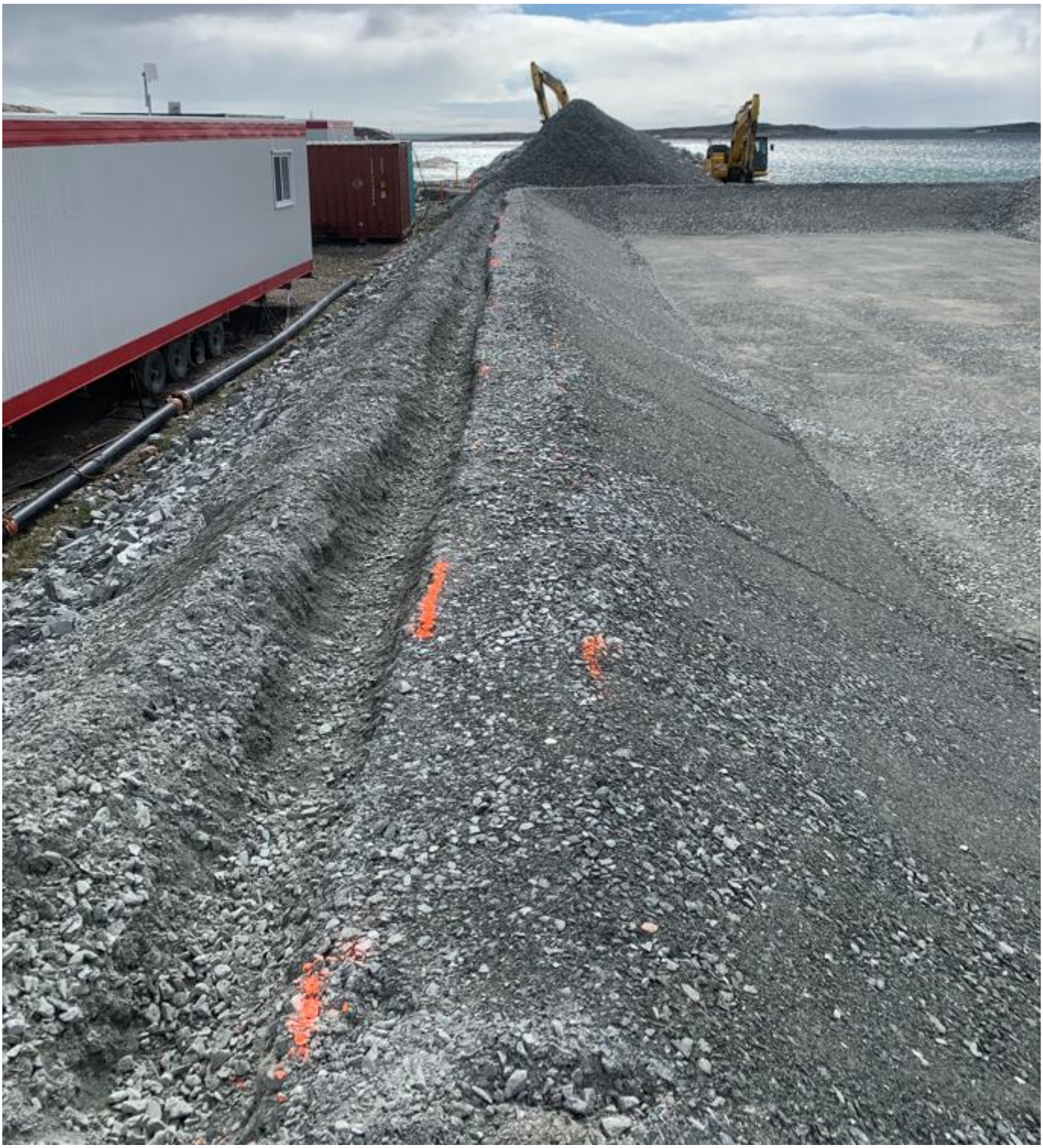
07-07-2024 Under Liner Material Placement of the Lined Containment Area

07-07-2024 Under Liner Material Placement of the Lined Containment Area



07-07-2024 Under Liner Material Placement of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area



07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

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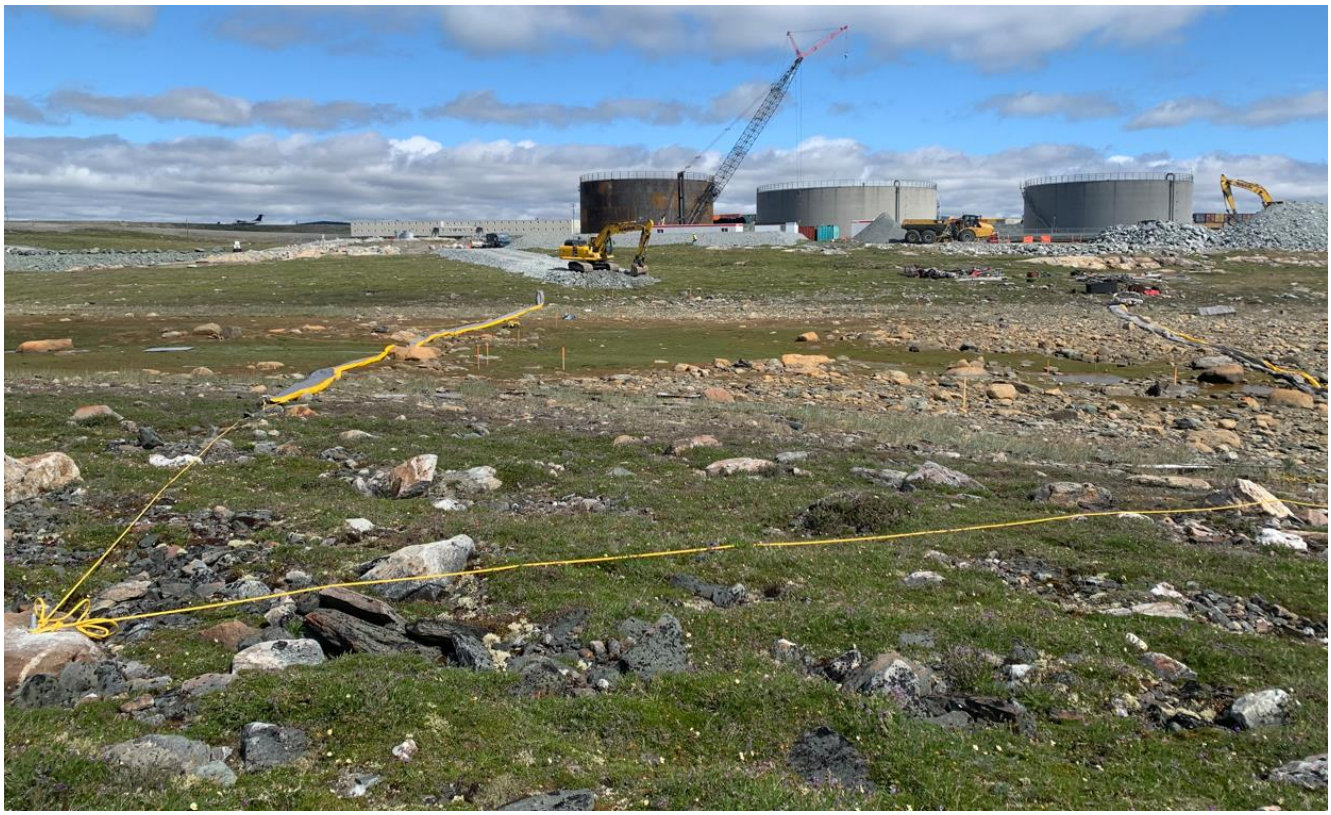
07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

07-07-2024 Key Trench for Under Liner Material of the Lined Containment Area

10-07-2024 Stakes for the Limits of the HDD Work Area



10-07-2024 Silt Curtain Prevent Erosion of Construction Material and Mix with Nature

10-07-2024 Access Road to the HDD Pad

19-07-2024 Roller packer over the HDD Work Area

01-08-2024 Installed Liner System in the Drilling Mud Recirculation, West side

01-08-2024 Geotextile under the Membrane in the Drilling Mud Recirculation

01-08-2024 Installed Liner System in the Drilling Mud Recirculation

01-08-2024 Installed Liner System in the Drilling Mud Recirculation, East side

01-08-2024 Installed Liner System in the Drilling Mud Recirculation, North side

01-08-2024 Installed Liner System in the Drilling Mud Recirculation, South side

01-08-2024 Access Road

01-08-2024 Access Road and HDD Work Area

01-08-2024 HDD Work Area

01-08-2024 HDD Work Area

10-08-2024 Drilling and Piling, Material and Equipment

10-08-2024 Piling for the base of the Drill

11-08-2024 First Pile Installed

14-08-2024 Piling in Progress

16-08-2024 Installing of the Steel Frame in Progress

18-08-2024 Drill Platform Installation

18-08-2024 Drill Installation on the Platform

18-08-2024 Welding the Drill Platform to the Steel Frame

25-08-2024 Aerial Picture of the HDD Area

Appendix C.

Construction summary

Civil Earthworks Construction Summary – Horizontal Directional Drilling (HDD)

- The construction management and quality assurance were provided by Agnico Eagle Construction (Agnico Eagle).
- The civil construction contractor was Kivalliq Contractors Group Ltd. (KCG).
- The horizontal directional drilling contractor was Puits RH.
- The liner installation and liner QC contractor was Titan Environmental Containment (Titan).
- All surveys were conducted by Hamel Arpentage.

Deviations from Design

- In accordance with the terms of the lease agreement and the archeological area, the location and configuration of the containment pond and access road were modified. However, the containment volume capacity of the pond was maintained in accordance with the specifications indicated on the engineering drawing.
- The access road was constructed on the northern side of the lined containment area, extending to the northeast of the HDD work area.
- A key trench was dug to serve as a foundation for the liner on the berm, with a minimum thickness of 300 mm. This was done due to the limited quantity of geotextile material on site and anchor the liner system to minimize movement.
- The key trenches have been backfilled on the north and south sides. As machinery is unable to drive on the tundra and cause disturbance, the west and east sides have been stabilized with sandbags, with a pile of sandbags placed in the corners to hold the temporary membrane system in place.
- The pad area on top was reduced to 700 m^2 from 1080 m^2 as per license requirements.
- To ensure the drill was adequately secured in place, an alternative solution was implemented whereby six 16" vertical piles were drilled in the bedrock through the work pad, in lieu of the original plan which called for eight 12" vertical piles.
- Completion of drilling has been postponed to 2025 due to challenges in maintaining drilling alignment.

1. Material, Site and Equipment Preparation (30-06-2024 to 19-08-2024)

- 30 mm minus, 50 mm minus, 150 mm minus and 600 mm minus (Run of Mine) were hauled from mine site to Itivia.
- Silt curtains were installed to prevent material from entering the water. Animal nesting holes were marked to ensure the area was not disturbed.
- Six 16-inch diameter piles were drilled to provide a base for the HDD work area. A steel frame consisting of 6"x8" was installed over the pile caps. The drill platform was then installed over the frame and welded to the frame. The drill was placed on top.

2. Lined Containment Area (30-06-2024 to 30-07-2024)

2.1. Under Liner Material Placement (30-06-2024 to 06-07-2024)

- All underliner rockfill material was placed in controlled lifts in accordance with the specifications. The maximum lift heights for 150 mm minus and 30 mm minus were 300 mm.
- An excavator was used to place 150mm minus and 30mm minus material of sufficient thickness. The material was then tamped and compacted with rollers and/or hand-pushed compactors after each lift, depending on the location.
- Key trenches were formed for the installation of the membrane system.

2.2. Liner System Installation (30-07-2024 to 30-07-2024)

- Textured 60 mil HDPE was installed, along with 540 g/m^2 non-woven geotextile. The geotextile installation was completed on July 30th. The installation of the HDPE geomembrane installation was completed on the same day.
- The liner was secured in place with sandbags throughout the installation process.
- QA of the liner installation was performed by AEM, and QC was performed by Titan.

3. Access Road (30-06-2024 to 15-07-2024)

- 600 mm minus of blast and crushed rock was hauled from the mine and placed with sufficient thickness with an excavator and packed with a roller packer and topped with a thin layer of 50 mm minus.
- The maximum lift height for 600 mm minus was 500 mm and 50mm minus was 300 mm.

4. HDD Work Area (15-07-2024 to 01-08-2024)

- 600 mm minus of blast and crushed rock was hauled from the mine and placed with sufficient thickness with an excavator and packed with a roller packer. It was topped with a thin layer of 50 mm minus.
- The maximum lift height for 600 mm minus was 500 mm and 50mm minus was 300 mm.
- Proof rolling was conducted on August 5th with a loaded Hyster.
- It was important to avoid disturbing the tundra and rock outcrop of the original ground.

5. Drilling of the Borehole (28-08-2024 to 07-09-2024)

- Completion of drilling has been postponed to 2025.

6. Temporary Demob for Next Season (10-09-2024 to 16-09-2024):

- The equipment was removed from the site, the steel frame was dismantled, and the piles were cut at ground level in the HDD work area.

Equipment Used for Construction:

- Loader Komatsu WA500
- Loader Bobcat T770
- Loader CAT 279D3
- Excavator Komatsu PC210LC
- Excavator Komatsu HB365
- Haul Truck CAT 745
- Dump truck Western Star
- Vibratory plate Bomag BPR 50/55 D
- CAT CS56B Roller packer
- *Mudwizard* system
- Foremost DR24HD drill
- Tadano Crane GR-1300XL-4
- JCB Telehandler
- Compressors
- Hyster 46-33 CH

QA/QC Summary

- In accordance with the Technical Specifications for Civil Earthworks, Revision 3 (6515-GNS-014, June 6, 2017), the following placements were made: 30 mm minus, 50 mm minus, 150 mm minus, and 600 mm minus (Run of Mine). The compaction efforts comprised a minimum number of passes with a roller packer of minimum thickness and a minimum number of passes with a vibratory plate. The suitability for placement and compaction efforts was assessed visually and approved by AEM.
- No particle size analysis was conducted, but all the material was visually approved for use by AEM.
- All material excavated from the open pits is subject to regular ARD/ML testing and is considered NPAG.
- Titan was responsible for all quality control of the liner installation process.

Appendix D.

HDPE membrane QC report

GEOMEMBRANE

QA-QC PACKAGE

FOR 60mil HDPE

TITAN ENVIRONMENTAL CONTAINMENT

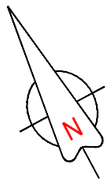
L247057

MELIADINE BERM EXTENSION

- Mud Wizard
- Pipe Burrito

RANKIN INLET, NU

COMPLETED AUGUST 05, 2024



P1

P2

P3

Report any discrepancies to Titan Environmental Containment Ltd.Do not scale dimensions from drawing. Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Titan Environmental Containment Ltd. Final Panel Locations to be installed at the descretion of the TITAN field Superintendant as see fit to existing site conditions..

NOT APPROVED FOR CONSTRUCTION

PROJ. NO.:	L247057	MELIADDINE BERM EXTENION MUD WIZARD			
DATE:	30-JULY-24	TITAN ENVIRONMENTAL CONTAINMENT LTD.			
DRAWN BY:	EA	CLIENT:	AGNICO MINE		
REV. BY:	EA	DWG TITLE:	60mil HDPE AS-BUILT		
SCALE:	NTS	REV. NO.:	000	DWG NO.:	001

PANEL PLACEMENT LOG

Project Name: Agnico Eagle Mud Wizard **Product Type:** 60mil HDPE

DATE (DD/MM/YY)	PANEL NUMBER	ROLL NUMBER	LENGTH (FEET / METERS ✓)	WIDTH	COMMENTS	
30/07/2024	P1	5-45095	37.30	6.80		253.6
30/07/2024	P2	5-45095	37.30	6.80		253.6
30/07/2024	P3	5-45095	37.30	6.80		253.6
						0.00
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REFRESH 760.92

WEDGE SEAM LOG

Project Name: Agnico Eagle Mud Wizard **Product Type:** 60mil HDPE

NOTE: ALL AIR TESTING MUST MAINTAIN A CONSISTENT READING FOR A MINIMUM OF 5 MINUTES.

SEAM LOG							AIR TEST INFORMATION				
BETWEEN PANELS	WELD DATE	TIME OF DAY		TECHNICIAN	WEDGE #	SEAM LENGTH	TEST DATE	START PSI	FINISH PSI	TEST RESULTS	QC TECHNICIAN
	DD/MM/YY	AM	PM			☐ FT/M ☑	DD/MM/YY				
P1/2	30/07/2024		1200	JB	PW5957	37.3	30/07/2024	50	50	Pass	JC
P2/3	30/07/2024		1330	JB	PW5957	37.3	30/07/2024	50	50	Pass	JC

WEDGE TRIAL LOG

Project Name: Agnico Eagle Mud Wizard **Product Type:** 60mil HDPE

Wedge #: PW5957
Date: 30/07/2024
Sheet Type: 60mil HDPE

Time: 1130 ✓am/pm Technician: JB Ambient Temp: 10 °C Wedge Speed: 550 ft/hr Wedge Temp: 850 °C/°F ✓		BREAK TYPE	PASS
INSIDE PEEL	122	F.T.B.	✓
	111	F.T.B.	✓
	125	F.T.B.	✓
	127	F.T.B.	✓
	130	F.T.B.	✓
OUTSIDE PEEL	118	F.T.B.	✓
	129	F.T.B.	✓
	122	F.T.B.	✓
	137	F.T.B.	✓
	135	F.T.B.	✓
SHEAR	190	F.T.B.	✓
	196	F.T.B.	✓
	191	F.T.B.	✓
	198	F.T.B.	✓
	195	F.T.B.	✓

NOTE:

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:

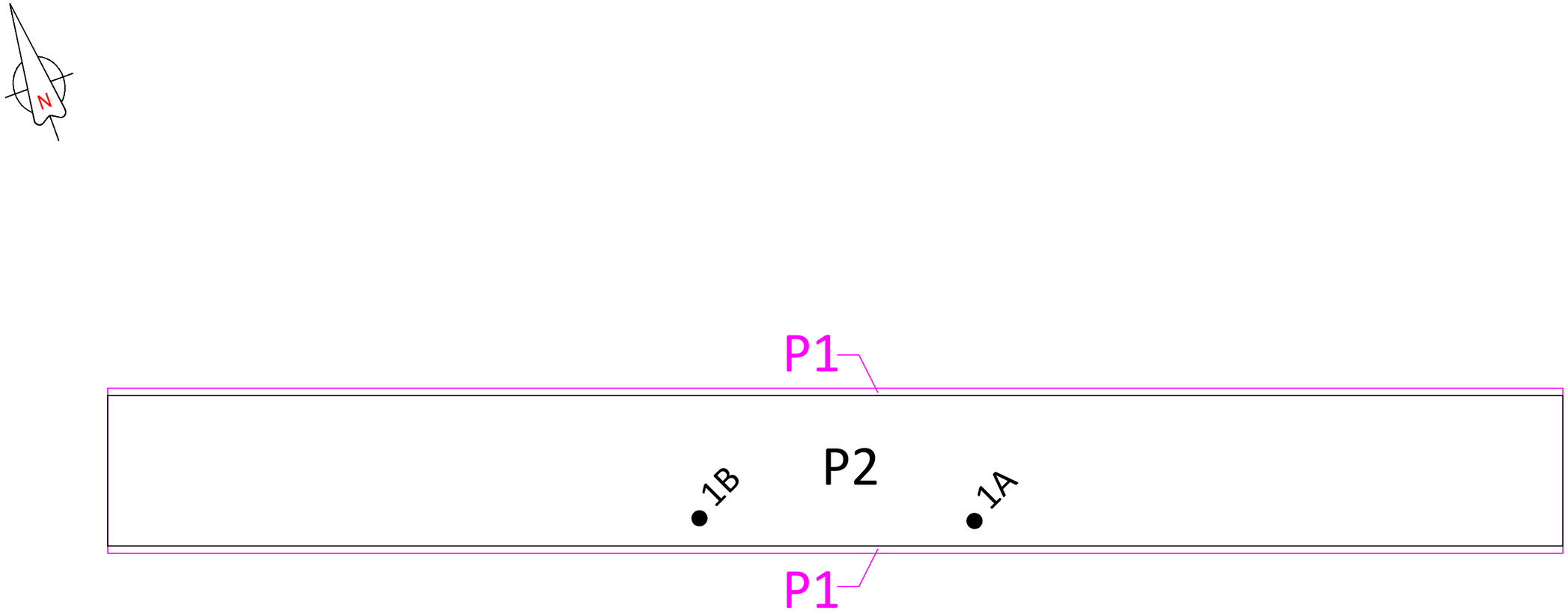
Wedge #: ____
Date: ____
Sheet Type: ____

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:



TITAN ENVIRONMENTAL CONTAINMENT

Report any discrepancies to Titan Environmental Containment Ltd.Do not scale dimensions from drawing. Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Titan Environmental Containment Ltd. Final Panel Locations to be installed at the descretion of the TITAN field Superintendant as see fit to existing site conditions..

NOT APPROVED FOR CONSTRUCTION

PROJ. NO.:	L247057	MELIADDINE BERM EXTENION PIPE BURRITO			
DATE:	05-AUG-24	TITAN ENVIRONMENTAL CONTAINMENT LTD.			
DRAWN BY:	EA	**CLIENT:**	AGNICO MINE		
REV. BY:	EA	**DWG TITLE:**	60mil HDPE AS-BUILT		
SCALE:	NTS	REV. NO.:	000	DWG NO.:	001

PANEL PLACEMENT LOG

Project Name: AGNICO EAGLE BURRITO **Product Type:** 60mil HDPE

DATE DD/MM/YY	PANEL NUMBER	ROLL NUMBER	LENGTH (FEET / METERS ✓)	WIDTH	COMMENTS	
28/07/2024	P1	5-068778	59.80	6.80		406.6
31/07/2024	P2	5-068778	60.00	6.80		408.0
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
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						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

REFRESH 814.64

WEDGE SEAM LOG

Project Name: AGNICO EAGLE BURRITO **Product Type:** 60mil HDPE

NOTE: ALL AIR TESTING MUST MAINTAIN A CONSISTENT READING FOR A MINIMUM OF 5 MINUTES.

SEAM LOG							AIR TEST INFORMATION				
BETWEEN PANELS	WELD DATE	TIME OF DAY		TECHNICIAN	WEDGE #	SEAM LENGTH	TEST DATE	START PSI	FINISH PSI	TEST RESULTS	QC TECHNICIAN
	DD/MM/YY	AM	PM			☐ FT/M ☑	DD/MM/YY				
P1/2	31/07/2024	1115		JB	PW5957	59	31/07/2024	50	50	Pass	JC
P1/2	31/07/2024		1325	JB	PW5957	30	31/07/2024	50	49	Pass	JC
P1/2	31/07/2024		1340	JB	PW5957	5	31/07/2024	50	50	Pass	JC
P1/2	31/07/2024		1345	JB	PW5957	25	31/07/2024	50	50	Pass	JC

WEDGE TRIAL LOG

Project Name: AGNICO EAGLE BURRITO **Product Type:** 60mil HDPE

Wedge #: PW5957
Date: 31/07/2024
Sheet Type: 60mil HDPE

Time: 1100 ✓am/pm Technician: JB Ambient Temp: 15 °C Wedge Speed: 550 ft/hr Wedge Temp: 850 °C/°F ✓		BREAK TYPE	PASS
INSIDE PEEL	107	F.T.B.	✓
	110	F.T.B.	✓
	119	F.T.B.	✓
	110	F.T.B.	✓
	111	F.T.B.	✓
OUTSIDE PEEL	114	F.T.B.	✓
	115	F.T.B.	✓
	100	F.T.B.	✓
	120	F.T.B.	✓
	129	F.T.B.	✓
SHEAR	171	F.T.B.	✓
	160	F.T.B.	✓
	163	F.T.B.	✓
	161	F.T.B.	✓
	169	F.T.B.	✓

NOTE:

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:

Wedge #: ____
Date: ____
Sheet Type: ____

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:

Time: ____ am/pm Technician: ____ Ambient Temp: ____ °C Wedge Speed: ____ ft/hr Wedge Temp: ____ °C/°F		BREAK TYPE	PASS
INSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
OUTSIDE PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTE:

EXTRUSION DETAIL LOG

CODE LEGEND

BO-BLOCK OFF
P-PATCH
PT-PENETRATION
E-EXTRUSION BEAD
T-THREE PANEL INTERSECTION
C-CAPSTRIP
DT-DESTRUCTIVE TEST

Project Name: AGNICO EAGLE BURRITO

Product Type: 60mil HDPE

NOTE: UNLESS OTHERWISE NOTED, ALL 3 PANEL INTERSECTIONS COME WITH VACUUM TESTED EXTRUDED T-WELDS.

DETAIL LETTER	DETAIL DATE	TECHNICIAN	CODE SEE LEGEND	DIMENSIONS	LOCATION	TEST DATE DD/MM/YY	TEST RESULTS	QC TECH	TEST TYPE
A	31/07/2024	JB	BO	3ft	Top of berm	31/07/2024	Pass	JO	Vacuum
B	31/07/2024	JB	BO	3ft	Top of berm	31/07/2024	Pass	JO	Vacuum

EXTRUDER TRIAL LOG

Project Name: AGNICO EAGLE BURRITO **Product Type:** 60mil HDPE

Extruder#: 007
Date: 31/07/2024
Sheet Type: 60mil HDPE

Time: 1400 am/pm ✓ Technician: JB Ambient Temp: 15 °C Ext Barrel Temp: 505 °C/°F ✓ Ext Air Temp: 510 °C/°F ✓		BREAK TYPE	PASS
PEEL	149	F.T.B.	✓
	137	F.T.B.	✓
	129	F.T.B.	✓
	135	F.T.B.	✓
	140	F.T.B.	✓
SHEAR	198	F.T.B.	✓
	192	F.T.B.	✓
	181	F.T.B.	✓
	181	F.T.B.	✓
	183	F.T.B.	✓

NOTES:

Time: am/pm Technician: Ambient Temp: °C Ext Barrel Temp: °C/°F Ext Air Temp: °C/°F		BREAK TYPE	PASS
PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTES:

Extruder#:
Date:
Sheet Type:

Time: am/pm Technician: Ambient Temp: °C Ext Barrel Temp: °C/°F Ext Air Temp: °C/°F		BREAK TYPE	PASS
PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTES:

Time: am/pm Technician: Ambient Temp: °C Ext Barrel Temp: °C/°F Ext Air Temp: °C/°F		BREAK TYPE	PASS
PEEL		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
SHEAR		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	
		F.T.B.	

NOTES:

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