

CONSTRUCTION SUMMARY (AS-BUILT) REPORT FOR OPERATION LANDFILL (STAGE 1) MELIADINE PROJECT, NUNAVUT



PRESENTED TO
Agnico Eagle Mines Ltd.

DECEMBER 2017
ISSUED FOR USE
TETRA TECH PROJECT NUMBER: 28920
AGNICO EAGLE DOCUMENT NUMBER: 6515-E-132-007-132-REP-014

EXECUTIVE SUMMARY

Tetra Tech was retained by Agnico Eagle Mines Limited (Agnico Eagle) to prepare a construction summary (as-built) report for the Operation Landfill (Stage 1) at the Meliadine Gold Project, Nunavut. Tetra Tech previously prepared the construction drawings and specifications as well as the design report for the Operation Landfill (Stage 1).

Tetra Tech was not involved in the construction of Operation Landfill (Stage1). The information presented in this report was provided by Agnico Eagle.

The construction of Operation Landfill (Stage1) was completed in September 2017. The construction monitoring and quality assurance was managed by Agnico Eagle.

This report summarizes the construction as-built information for the Operation Landfill (Stage 1).

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1.0 INTRODUCTION

Agnico Eagle Mines Limited (Agnico Eagle) retained the services of Tetra Tech to carry out the planning and design works associated with the Water and Environment and the Civil Works components of the Meliadine Project, a gold mine located approximately 25 km north from Rankin Inlet, and 80 km southwest from Chesterfield Inlet in the Kivalliq Region of Nunavut. Tetra Tech previously prepared the design report and drawings for construction of the Operation Landfill (Stage 1). The Operation Landfill (Stage 1) is located around a UTM (NAD83, Zone 15) coordinate of 539,050E and 6,989,520N. As part of the scope of work, Agnico Eagle asked Tetra Tech to:

- Conduct a detailed design for the Operation Landfill (Stage 1), as part of the 2017 civil work construction schedule
- Produce construction drawings and specifications for the Operation Landfill (Stage 1)
- Prepare design and construction summary reports of the Operation Landfill (Stage 1)

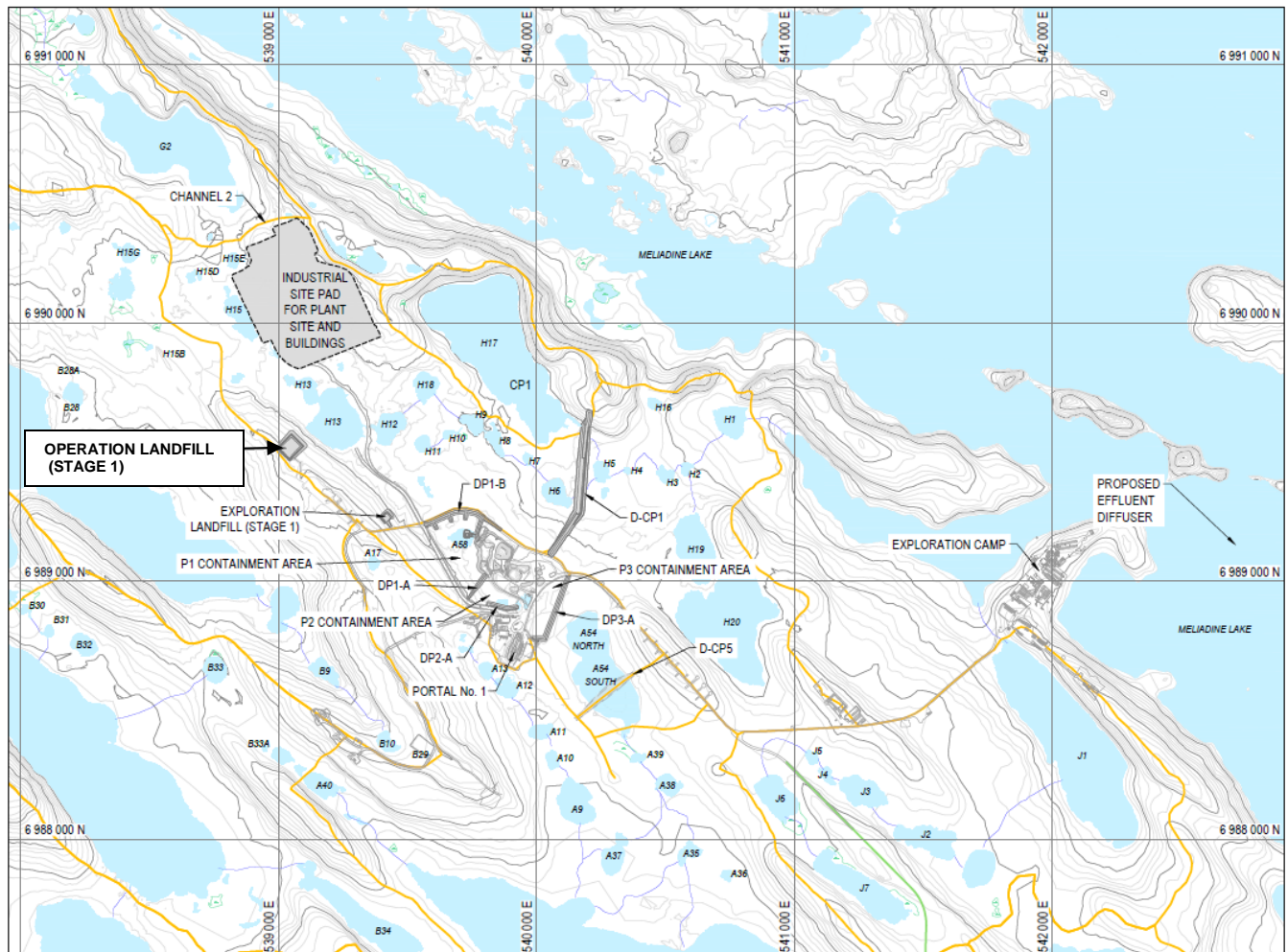
As required by the Water Licence A (No. 2AM-MEL1631), this report summarizes the construction work of the Operation Landfill (Stage 1) located south of the industrial site, at the northeast corner of the proposed Waste Rock Storage Facilities 1 (WRSF1). Included in this report is:

- A summary of the characteristics of the Operation Landfill (Stage 1)
- Documentation on field decisions that deviate from original plans
- As-built drawings
- A survey drawing conducted after the construction of the Operation Landfill (Stage 1)
- Photographs of the Operation Landfill (Stage 1)

2.0 SUMMARY OF THE CONSTRUCTION

2.1 Site location plan

The figure below presents a site location plan for the Operation Landfill (Stage 1).



2.2 Construction schedule

The construction for the Operation Landfill (Stage 1) was completed according to the following milestones:

Item	Date
Site Preparation	August 21 st to 23 rd
Perimeter Berm Construction	August 23 rd to 30 th
Floor Placement	September 1 st to 6 th
Completion of Construction	September 6 th

2.3 Operation Landfill (Stage 1) characteristics

The Operation Landfill (Stage 1) characteristics and as-built in-place quantities are presented in the table below.

Characteristics	
Item	Operation Landfill (Stage 1)
Dimensions of Perimeter Berm Crest Exterior (avg.)	80.23 m x 70.49 m
Dimensions of Perimeter Berm Crest Interior (avg.)	70.20 m x 61.39 m
Perimeter Berm Crest Width (avg.)	4.79 m
Perimeter Berm Crest Elevation (avg.)	76.65 m
Fill Thickness Above Original Ground	0.55 m
Interior Floor Slope (avg.)	2.7% (SW to NE)
Interior Berm Side Slope (avg.)	1V:2H
Exterior Berm Side Slope (avg.)	1V:2.5H
Total Storage Volume from Floor Base to Crests of Perimeter Berm	8 760 m ³

Material Quantities	
Item	Operation Landfill (Stage 1)
Esker (600mm MINUS) CL. A	9 750 m ³
50mm MINUS	1 649 m ³
TOTAL	11 399 m³

2.4 Drawings and photographs

As-built drawings are presented in Appendix A.

A survey drawing conducted after the construction of the Operation Landfill (Stage 1) can be found in Appendix B.

Photographs of the Operation Landfill (Stage 1) during construction is shown in Appendix C.

3.0 DOCUMENTATION ON FIELD DECISIONS THAT DEVIATE FROM ORIGINAL PLANS

This section documents variations from original design which were approved by the designer and/or the field engineer on site. The designed intent of the structure was not compromised with any of the changes to the original design.

A construction summary was prepared for the Operation Landfill (Stage 1) by the Agnico Eagle construction team. This summary is available in Appendix D.

The construction of Operation Landfill (Stage 1) is different from the original design on these following points:

- A shortage of available Run of Mine (ROM) material from Underground Operations led to the following material changes, approved by Tetra Tech as per RFI 6515-C-230-009_013:
 - Replacement of Run of Mine material (600mm MINUS) with Class A Esker material (600mm MINUS).
 - Elimination of Transition Rockfill material (150mm MINUS) and granular fill material (20mm MINUS) on the interior slopes of the perimeter berm.
 - Replacement of Transition Rockfill material (150mm MINUS) with Transition Rockfill material (200mm MINUS) granular material for the floor.
- Based on the visual particle size distribution of the Class A Esker material (600mm MINUS) replacing the Run of Mine material (600mm MINUS), the external slopes of the perimeter berms could be prone to future erosion of fines from the material matrix. This should be monitored and managed as necessary, and could be mitigated by placement of a non-erodible surface cover after construction.
- The proximity of the Esker to the Operation Landfill (Stage 1) led to the following material substitutions, approved by Agnico Eagle:
 - Replacement of Transition Rockfill material (200mm MINUS) to 50mm MINUS screened Esker material and Class A granular fill material for the floor.

- The construction work led to slight variations from the original design in the geometry of the Operation Landfill (Stage 1):
 - The exterior dimensions of the berm crest are greater by 0.23 m and 0.49 m.
 - The interior dimensions of the berm crest are smaller by 1.8 m and 0.61 m.
 - The average elevation of the berm crest was lowered by 0.26 m to an average elevation of 76.49 m.
 - The average width of the berm crest is 4.79 m which is an increase of 0.79 m from the original 4m design.
- These changes in the geometry compounded into a volume capacity of 8 760 m³ calculated from the floor base to the crests of perimeter berms, which is 774 m³ lower than the designed capacity. The reduced overall volume capacity does not impact the volume of waste and intermediate soil/rockfill that can be placed in the landfill. The total storage capacity was designed to accommodate an estimated waste volume of 4 368 m³, an estimated volume of intermediate soil/rockfill cover of 3 021 m³, and a remaining capacity of 2 055 m³ for temporary storage of internal runoff and drainage. The estimated volume of runoff water during a 1 in 100 return wet spring freshet is up to 960 m³ (assuming no seepage through the berms), so the remainder is for freeboard. The reduced volume capacity would result in reducing the remaining capacity for temporary storage of the internal runoff by the same amount, which would affect the freeboard allowance but is still sufficient to store the runoff water as designed.
- An opening in the southwest side of the perimeter berm was left to allow for vehicle access/dumping. Depending on the waste disposal management plan and schedule for the landfill, the perimeter berm may need to be completed in the future to close the opening for vehicle access as the volume of waste is dumped/placed into the waste area. This is to ensure that the remaining capacity to allow for the temporary storage of the internal runoff and drainage is respected, otherwise when reaching a fill volume of 6 250 m³ there will no longer be a capacity to retain the internal runoff within the landfill, as it would flow through the opening kept in the perimeter berm.
- The average floor slope was lowered by 0.8% to a slope of 2.7% going in the designed direction of southwest to northeast, matching the natural ground slope. This slope is still adequate allowing internal runoff to gradually seep through the northeast perimeter berm and naturally flow through a chain of internal water ponds (H13 to H6) and eventually flow in a final internal water collection pond (CP1).
- The average perimeter berm side slopes both interior and exterior remained the same at 1V:2H and 1V:2.5H respectively, thus the stability of the perimeter berm should not be an issue.

The Operation Landfill (Stage 1) geometry and characteristics were adjusted to site conditions. The table below presents the changes between the proposed work and the actual work.

GEOMETRY AND CHARACTERISTICS			
Item	Proposed	Actual	Difference
Dimensions of Perimeter Berm Crest Exterior (avg.)	80 m x 70 m	80.23 m x 70.49 m	+ 0.23 m / + 0.49 m
Dimensions of Perimeter Berm Crest Interior (avg.)	72 m x 62 m	70.20 m x 61.39 m	- 1.8 m / - 0.61 m
Perimeter Berm Crest Width (avg.)	4.0 m	4.79 m	+ 0.79 m
Perimeter Berm Crest Elevation (avg.)	76.3 m to 77.2 m	76.17 m to 77.13 m	- 0.07 m
Fill Thickness Above Original Ground	0.5 m	0.55 m	+0.05
Interior Floor Slope (avg.)	3.5% (SW to NE)	2.7% (SW to NE)	- 0.8%
Interior Berm Side Slope (avg.)	1V:2.0H (50%)	1V:2.0H (50%)	-
Exterior Berm Side Slope (avg.)	1V:2.5H (40%)	1V:2.5H (40%)	-
Landfill footprint area	7 953 m ²	8 314 m ²	+ 361 m ³
Total Storage Volume from Floor Base to Crests of Perimeter Berm	9 444 m ³	8 670 m ³	- 774 m ³
Remaining Capacity for Temporary Storage of Internal Runoff and Drainage	2 055 m ³	1 281 m ³	- 774 m ³

4.0 CONSTRUCTION MONITORING AND INSPECTION TEST PLAN

The construction monitoring was managed by Agnico Eagle. The inspection test plan for the Operation Landfill (Stage 1) signed by the Contractor and Agnico Eagle's resident engineer is presented in Appendix E.

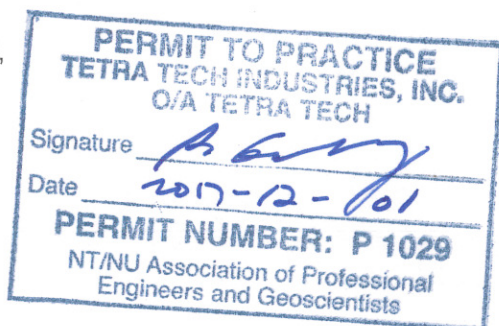
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6.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech



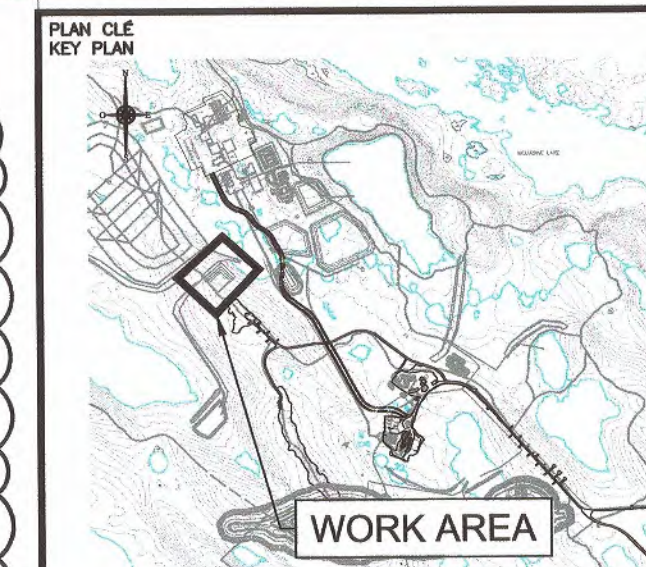
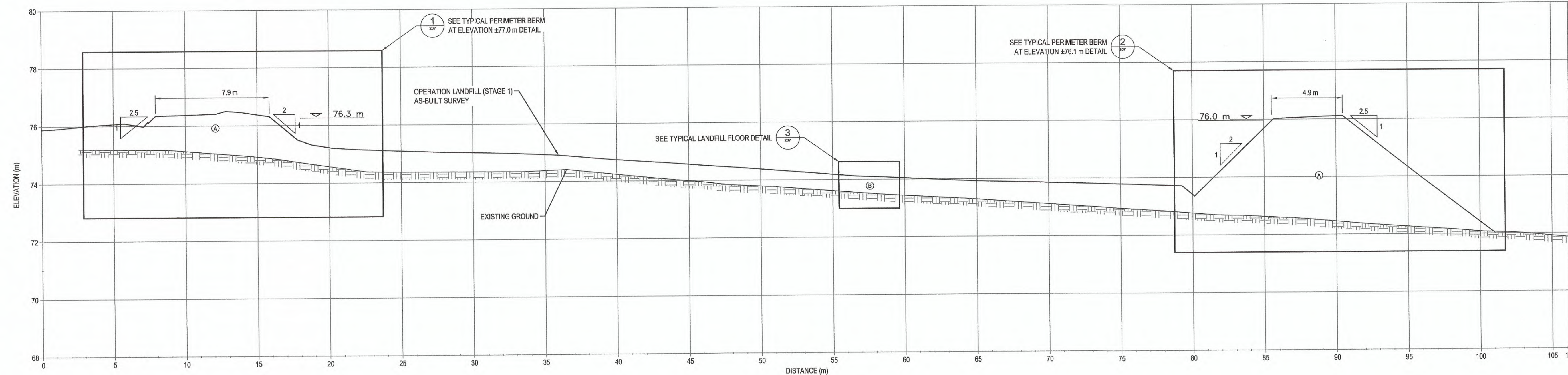
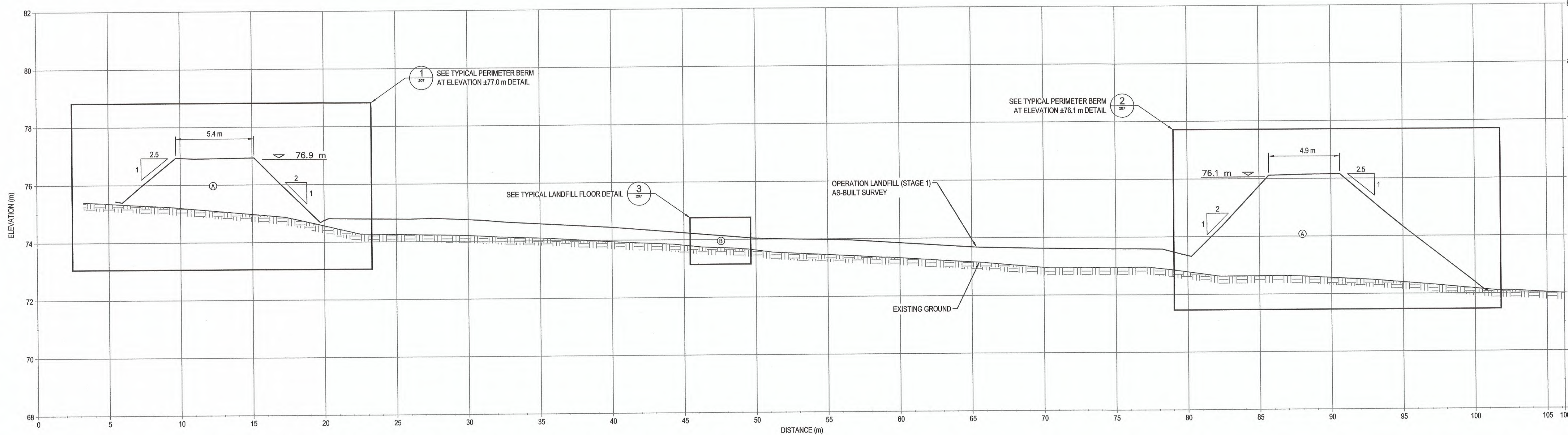
Prepared by: *[Signature]* 2017-12-01
Christopher Morin, Jr. Eng.
Direct Line: 514.257.2427 x3240
Christopher.Morin@tetratech.com



Reviewed by: 2017-12-01
Josée Alarie, P.Eng.
Direct Line: 514.257.2427 x3323
Josée.Alarie@tetratech.com

APPENDIX A

As-built drawings



NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- (A) ESKER GRANULAR FILL (CL. A) (600mm MINUS)
(B) GRANULAR FILL (50mm MINUS)



TEL QUE CONSTRUIT
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0	2017-02-08	ISSUED FOR CONSTRUCTION	GZ	KJ	
A	2017-01-23	ISSUED FOR REVIEW	GZ	KJ	

REVISIONS

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TETRA TECH INDUSTRIES, INC.
O/A TETRA TECH

Signature: *[Signature]*
Date: 2017-12-01

PERMIT NUMBER: P 1029
NTNU Association of Professional
Engineers and Geoscientists

TITLE / TITRE
AGNICO EAGLE - MELADINE DIVISION
697 - LANDFILL
230 - GENERAL EARTH WORKS
OPERATION LANDFILL (STAGE 1)
CROSS SECTIONS A-A AND B-B

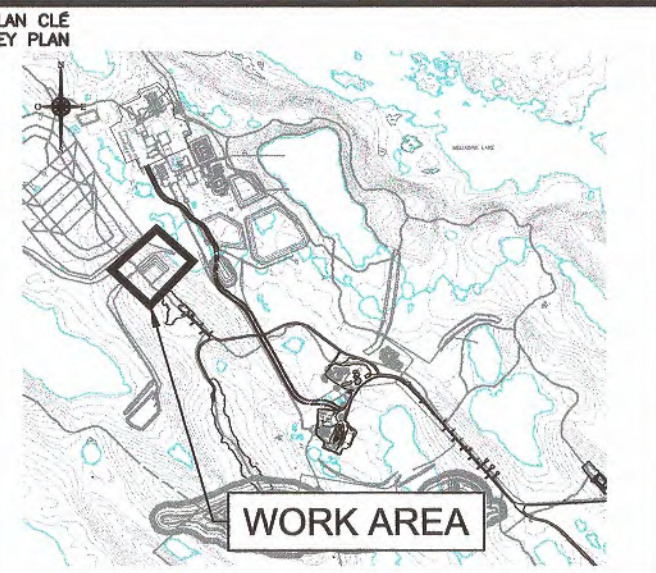
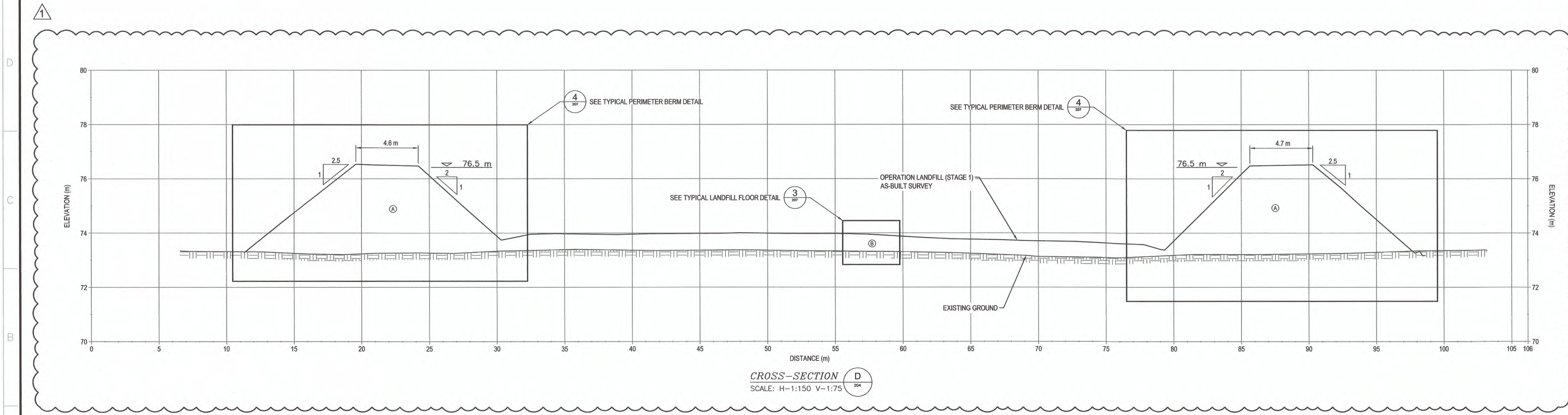
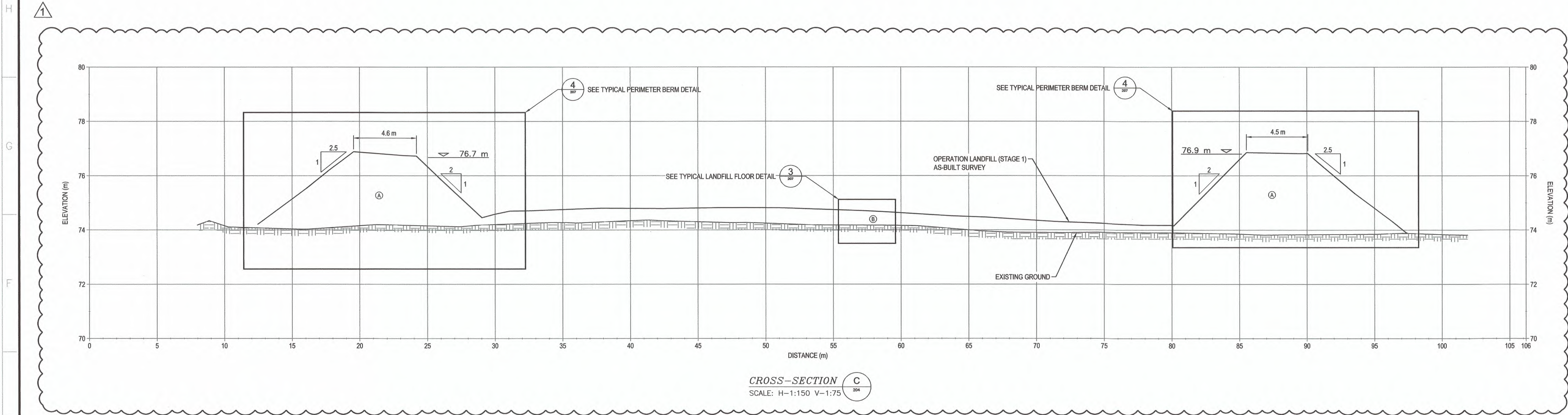
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DATE 2017-01-23

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6515 / 28920	1	1 / 1



NOTES GÉNÉRALES / GENERAL NOTES

- LEGEND
- (A) ESKER GRANULAR FILL (CL. A) (600mm MINUS)
 - (B) GRANULAR FILL (50mm MINUS)



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OIA TETRA TECH

Signature: *[Signature]*

Date: 2017-12-01

PERMIT NUMBER: P 1029

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AGNICO EAGLE - MELIADINE DIVISION
697 - LANDFILL
230 - GENERAL EARTH WORKS
OPERATION LANDFILL (STAGE 1)
CROSS SECTIONS C-C AND D-D

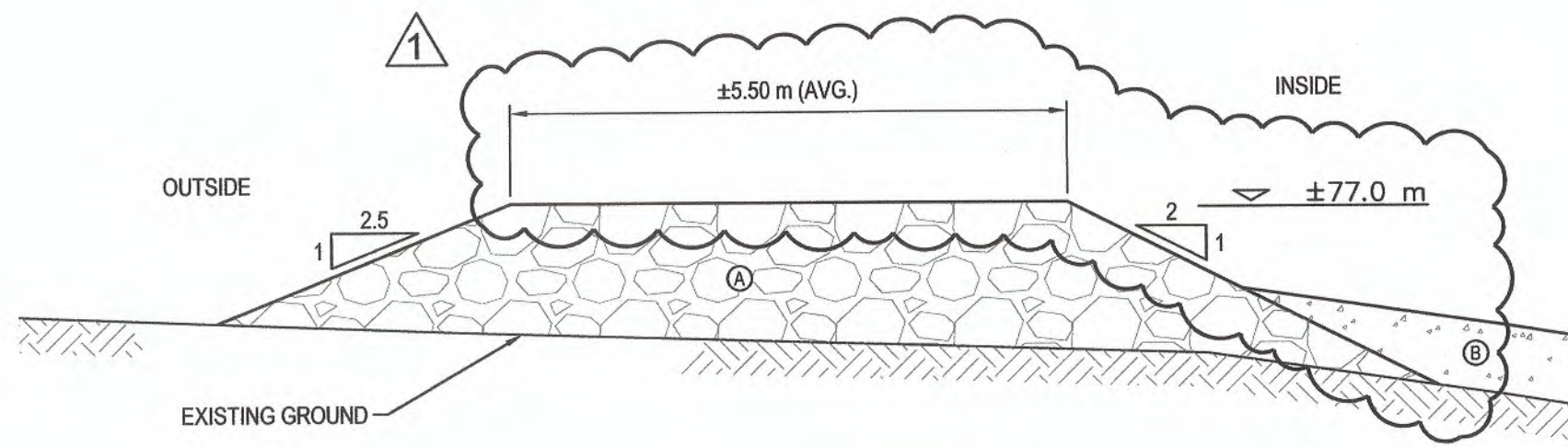
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DATE 2017-01-23

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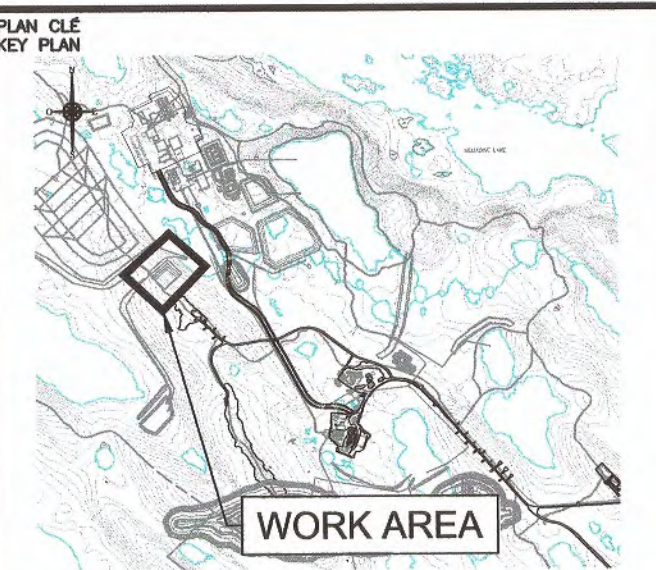


TYPICAL PERIMETER BERM AT ELEVATION ±77.0 m 1
NTS

ESTIMATED IN-PLACE MATERIAL QUANTITIES FOR CONSTRUCTION OF OPERATION LANDFILL STAGE 1		
ITEM	UNIT	ESTIMATED IN-PLACE QUANTITY
(A) ESKER GRANULAR FILL (600mm MINUS)	m³	9,750
(B) GRANULAR FILL (50mm MINUS)	m³	1,649

IT SHOULD BE NOTED THAT THE ACTUAL QUANTITIES COULD BE DIFFERENT FROM THE ESTIMATED DUE TO THE FOLLOWING REASONS:

- ORIGINAL GROUND CONDITIONS / ELEVATIONS MAY BE DIFFERENT FROM THE TOPOGRAPHIC DATA USED FOR THE DESIGN.
- THE FIELD OBSERVATIONS DURING CONSTRUCTION MAY LEAD TO DESIGN AND CONSTRUCTION RELATED MODIFICATIONS, WHICH MAY IN TURN AFFECT THE QUANTITIES.
- THE ORIGINAL GROUND MAY SETTLE DURING CONSTRUCTION.



NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- (A) ESKER GRANULAR FILL (CL. A) (600mm MINUS)
- (B) GRANULAR FILL (50mm MINUS)

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A	2017-01-23	ISSUED FOR REVIEW	GZ	KJ	

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Date: 2017-12-01

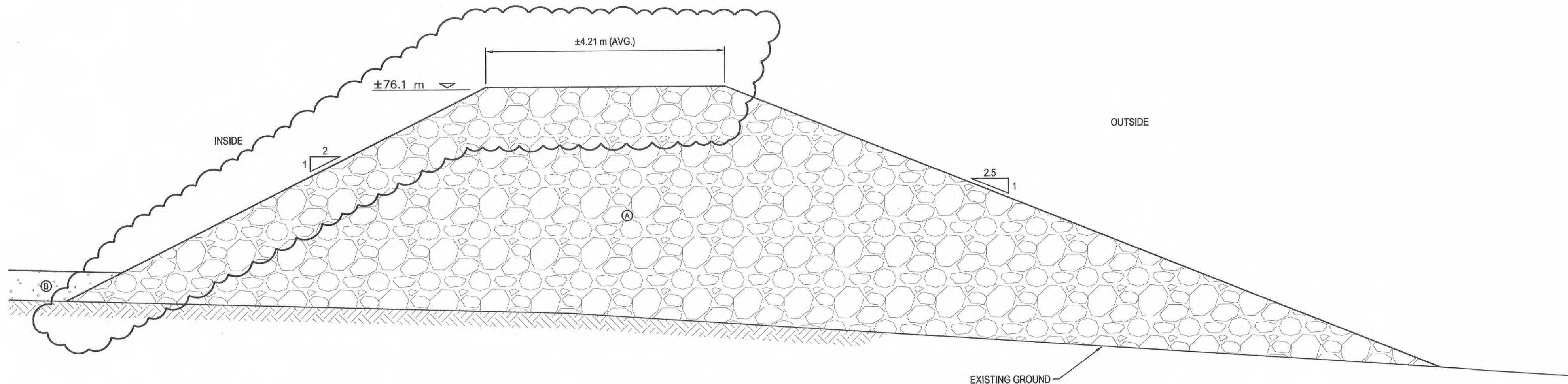
TITRE / TITLE
AGNICO EAGLE -- MELIADINE DIVISION
697 -- LANDFILL
230 -- GENERAL EARTH WORKS
OPERATION LANDFILL (STAGE 1)
TYPICAL DETAILS AND MATERIAL QUANTITIES

DESSINÉ PAR DRAWN BY	EL	DATE	2017-01-23
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APPROUVÉ PAR APPROVED BY	KJ	DATE	2017-01-23

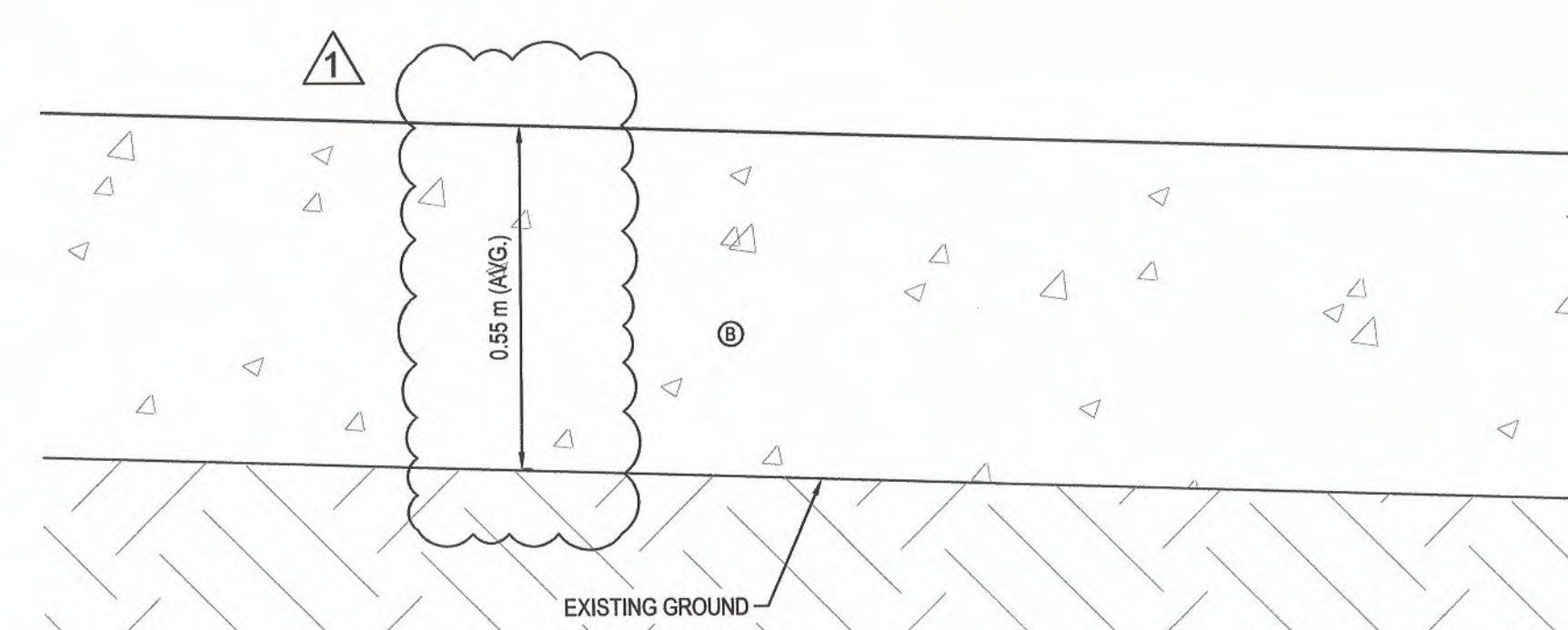
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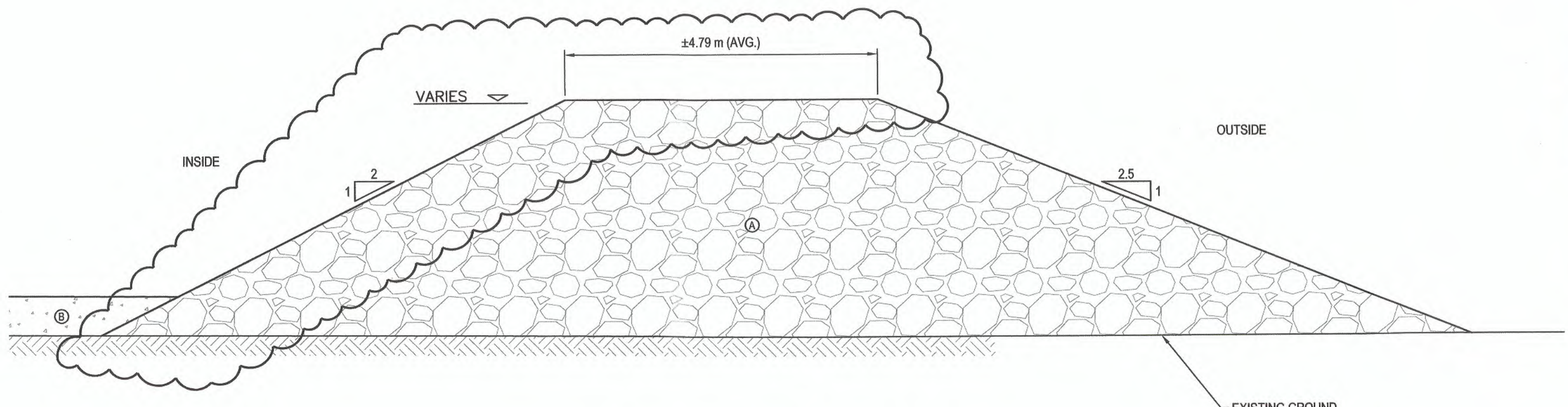
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6515 / 28920	1	1 / 1



TYPICAL PERIMETER BERM AT ELEVATION ±76.1 m 2
NTS



TYPICAL LANDFILL FLOOR 3
NTS



TYPICAL PERIMETER BERM 4
NTS

APPENDIX B

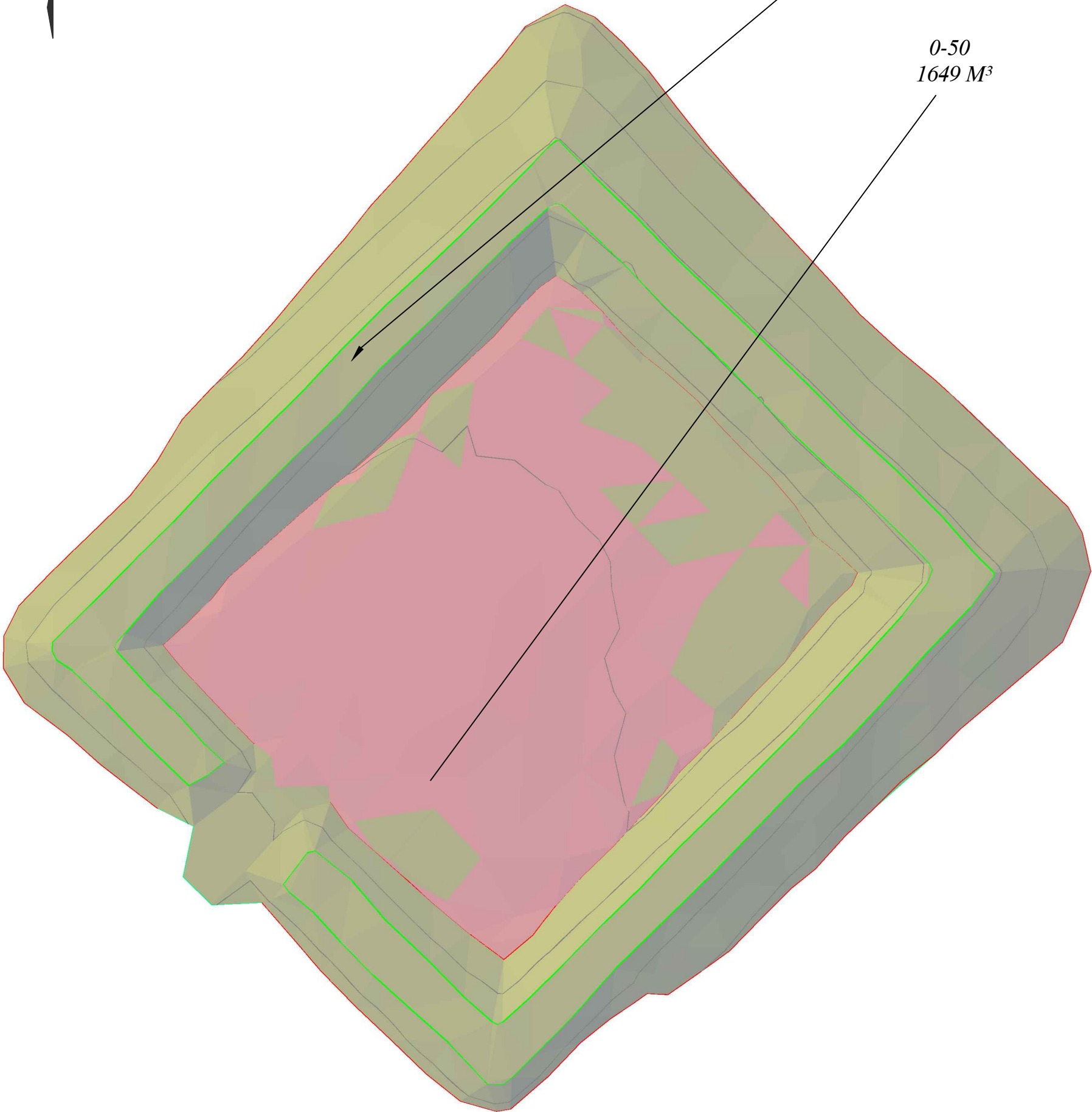
Survey drawings

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CLASS A ESKER
9750 M³

0-50
1649 M³



AGNICO EAGLE

WORK EXECUTION DATE 2017-09-07

EMISSION DATE : 2017-10-23

COORD. SYSTEME:
UTM15 NAD83

AS BUILT
697 LAND FILL

DRAWN BY:
R.CLOUATRE

SCALE:
N.T.S.

PLAN NO.:
697-QTY-170907

APPROVED BY:
Hamel arpentage

APPENDIX C

Photographs of Operation Landfill (Stage 1)



2017-08-23
CAT D6 pushing first lift of Class A material on southwest berm



2017-08-25

Compacted first lift of Class A material on northeast berm



2017-08-26

Placing second lift of Class A material on southeast berm



2017-08-28
Placement of second lift of Class A material on northwest berm



2017-09-06
Placement of floor material



2017-08-28
Placement of second lift of Class A material on northwest berm

APPENDIX D

Construction Summary of Operation Landfill (Stage 1)

Construction Summary – Operations Landfill

- Construction management and quality assurance performed by Agnico Eagle Construction
- Primary civil construction contractor was MTKSL
- All survey conducted by Hamel Arpentage

Design Deviations:

- Shortages of available run-of-mine (ROM) from Underground operations led to the issuance of RFI 6515-C-230-009_013 (issued July 19 and approved by Tt July 26) for the following material substitutions:
 - Replacement of 600 mm minus ROM with 600 mm minus Class A Esker material
 - Elimination of 150 mm minus Transition Rockfill and 20 mm minus Granular Fill from the interior slope of the perimeter berms
 - Replacement of 150 mm minus Transition Rockfill for the interior floor with 200 mm minus Transition Rockfill
- Further field alterations approved by Agnico Eagle Construction include:
 - Replacement of 200 mm minus Transition Rockfill on the floor with 50 mm minus screened esker material and Class A esker material
 - A small quantity of 600 mm minus ROM (which was previously placed) forms a portion of the first lift of the southeast perimeter berm and the floor in the southeast corner. This material was not surveyed separately from the Class A Esker material.
 - An opening for vehicle access/dumping was left in the southwest Perimeter Berm

1. Site Preparation (August 21 to August 23)

- OG survey of Landfill footprint
- Access road from Haul Road constructed along future TSF haul road alignment

2. Perimeter Berm Construction (August 23 to August 30)

- 600 mm minus Class A esker material from the Emulsion Esker was placed in controlled lifts and compacted
- Following placement of all lifts except the last, the berms were shaped to design slopes with an excavator with the excess material placed as the final lift

3. Floor Placement (September 2)

- Class A esker material removed from final sloping the interior of the Perimeter Berms was placed and compacted as part of the floor covering
- The remainder of the floor material consisted of 50 mm minus placed in controlled lifts and compacted

Equipment Used for Construction:

- | | |
|-----------------------|--|
| - CAT D6 Bulldozer | - CAT 773 Haul Trucks |
| - CAT 345B Excavator | - CAT CS56 10-ton vibratory drum compactor |
| - CAT 980 Loader | |
| - CAT 740 Haul Trucks | |

QA/QC Summary

1. 600 mm minus was placed according to the Technical Specifications for Civil Earthworks Rev 3 (6515-GNS-014, June 6, 2017). Compaction efforts consisted of a minimum number (4-6) of passes with a 10-tonne vibratory compactor. Suitability for placement (free from frozen materials and/or ice) and compaction efforts were assessed visually and approved by AEM.
2. 50 mm minus screened esker material was placed according to the Technical Specifications for Civil Earthworks Rev 3 (6515-GNS-014, June 6, 2017). Compaction efforts consisted of a minimum number (4) passes with a 10-tonne vibratory compactor.
3. No QC was performed during construction.

APPENDIX E

Inspection Test Plan of Operation Landfill (Stage 1)

PROJECT:	AGNICO EAGLE MINES (AEM) - MELIADINE GOLD PROJECT				
Contractor:	MTKSL			Contract/Job No.:	6515-C-235-009
Area/System No.:	Landfill			ITP No.:	6515-C-235-009_ITP_004 201708019
Contact Person:	MTKSL – Tyler Wilson/Rejean Duval			Verification Type	AEM Job Titles
Work Area:	Landfill			H: Hold Point	T: Test CC Construction Coordinator
Subcontractor:	Hamel (Survey), AEM Field Engineering (Materials Testing)			I: Inspection	V: Verify Test Results FE Field Engineer
CWP No.:	6515-C-235-009 – Industrial Pads	EWP No.:	N/A	R: Review Documentation	W: Witness / Report QA Quality Assurance Representative

ACTIVITY DATA								VERIFICATION DATA ⁴										Comments
No.	Description of Activities ¹ (Describe in sequential order. Sequence must align with the execution sequence of the work to be performed.)	Functional ² Responsibility	Characteristic (s) ³	Verification ⁴ Frequency	Reference Document(s)	Acceptance Criteria	Verification ⁵ Document(s) (Reporting)	Subcontractor QC			MTKSL QC			AEM				
								Type	Initials	Date	Type	Initials	Date	Type	Initials	Date	Title	
1	IFCs Approved (Issued for Construction)	AEM / MTKSL	Verify all IFCs are approved and correct	Prior to Construction and ongoing	Issued IFCs	Stamped IFC Drawings and latest revisions	Drawing Log; AEM Transmittal	H			H	JC	10-24-17	R	JP	10/24/17	RE	No work to proceed without Approved IFC Drawings Issued from AEM Document Control Void older revisions
2	Materials Production	AEM/MTKSL	Material Acceptance	As required	Technical Specs	Passing material gradation	Sieve Analysis	N/A			H	JC	10-24-17	RV	JP	10/24/17	RE	Sieve Analysis and moisture content testing. QC Testing by AEM.
3	Materials Assignment	AEM	Material Acceptance	Ongoing	Site Standards	Material suitability	Material Balance & Assignment Sheet	N/A			H	JC	10-24-17	RV	JP	10/24/17	RE	Materials sources for construction materials to be dictated by AEM.
4	Survey Layout	HAMEL	Layout area of construction	As required	Issued IFC's	Conforms to IFC's.	Survey Layout Report	V			H	JC	10-24-17	R	JP	10/24/17	RE	Survey provided by AEM (Hamel)
5	Site Preparation	MTKSL	Ensure site is acceptable for placement	Once	IFCs, Site Standards, Technical Specs	Conforms to IFCs and Technical specs	Release for backfill / Stripping Report	V/R			W/R	JC	10-24-17	V/R	JP	10/24/17	RE	OG Surface to be surveyed prior to fill placement.
6	Placement of Material <600mm	MTKSL	Monitoring placement of materials	As required	IFCs, Site Standards, Technical Specs	Conforms to IFCs and Technical specs	Back Fill Report	V			V/R	JC	10-24-17	R/V	JP	10/24/17	RE	Note Materials Changes per RFIs.
7	Placement of Material <200mm	MTKSL	Monitoring placement of materials	As required	IFCs, Site Standards, Technical Specs	Conforms to IFCs and Technical specs	Back Fill Report	V			NONE USED				JP			Note Design & Materials Changes per RFIs. 200mm removed from interior slopes of berms
8	Placement of Material <30mm	MTKSL	Monitoring placement of materials	As required	IFCs, Site Standards, Technical Specs	Conforms to IFCs and Technical specs	Back Fill Report	V			V/R				NONE USED	JP		Note Design & Materials Changes per RFIs. 30mm removed from interior berm slopes

9	As built summary	AEM/MTKSL /HAMEL	Verify construction against IFC's	Once	Issued IFC's & Approved Field Changes	Conforms to IFC's & Approved Field Changes	Survey report & cleared ECN log	H			H	JC	10-24-17	RV	JP	10/24/17	RE	Survey to be completed at each material change or area
10	Walkdowns & Deficiency Correction	AEM/MTKSL	Verification	As Required	Asbuilt summary, IFCS, Field Changes	Conforms to IFC's & Approved Field Changes	Cleared Punch Log	N/A			H	JC	10-24-17	RV	JP	10/24/17	RE	
11	Final acceptance and turnover	AEM/MTKSL	Acceptance of final turnover	Once	Issued IFC's, Technical Specs	Conforms to IFCs, Technical Specs, Field Changes	Final Acceptance	H			H	JC	10-24-17	R	JP	10/24/17	RE	

Comments: All survey to be performed by Hamel. Material Testing by AEM. Lifts to be released by QA.

Applicable Site Standard XXXXX-XXXXX

Applicable Technical Specification - 6515-GNS-014_R3.

ITP ISSUE APPROVALS

Jim Cordano | Construction Foreman | Jim Cordano | 10-24-017
Contractor Construction Manager / Superintendent (Print) | Title | Signature | Date (mm/dd/yy)

_____| _____ | _____ | _____
Contractor Site Quality Manager / Supervisor (Print) | Owner Title | Signature | Date (mm/dd/yy)

JENNIFER PYLIUK | RESIDENT ENGINEER | Jennifer Pyliuk | _____
AEM Quality Manager / Supervisor (Print) | Title | Signature | Date (mm/dd/yy)

ITP CLOSEOUT AND WORK ACCEPTANCE APPROVALS

Jim Cordano | Construction Foreman | Jim Cordano | 10-24-017
Contractor Site Quality Manager / Supervisor (Print) | Title | Signature | Date (mm/dd/yy)

JENNIFER PYLIUK | RESIDENT ENGINEER | Jennifer Pyliuk | _____
AEM Quality Manager / Supervisor / Designate (Print) | Title | Signature | Date (mm/dd/yy)