Appendix J1

2017 South Cell Internal Structure As-built Report

SOUTH CELL INTERNAL STRUCTURE AS-BUILT REPORT

AGNICO-EAGLE MINES LIMITED MEADOWBANK GOLD PROJECT

DECEMBER 31, 2017

EXECUTIVE SUMMARY

The construction of the South Cell Internal Structure at Meadowbank was conducted from October 7th 2017 to November 6th 2017. The internal structure is located in the northwest corner of the South Cell of the Tailings Storage Facility along the downstream toe of Stormwater Dike and in front of the reclaim pump area.

The internal structure is designed and constructed to block the subaqueous slurry beach from reaching the reclaim pump suction as this would cause water quality issues at the mill. This structure will also optimize the tailings deposition in the South Cell. The built internal structure is 340m long, 25.5 m wide, and built to an elevation of 137.25m.

Work carried out during construction of the internal structure included access road construction, placement of a lift of rockfill 0.5 m meter above the South Cell water level, and the excavation of two trenches on the crest of the internal structure having a depth of 2 m deep each. This as-built report presents the design and the construction procedure of the internal structure.

DOCUMENT CONTROL

Document Version	Date	Revised Section	Revision
Draft	2017-12-29	All	
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SOUTH CELL INTERNAL STRUCTURE AS-BUILT REPORT

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SOUTH CELL INTERNAL STRUCTURE AS-BUILT REPORT

SECTION 1.0 - INTRODUCTION

The South Cell at Meadowbank is located in the north portion of the main mine site, and is one of the two cells within the Meadowbank Tailings Storage Facility (TSF). The South Cell TSF is contained within 5 perimeter tailings dikes: Stormwater Dike, Central Dike, Saddle Dam 5, Saddle Dam 4, and Saddle Dam 3. In 2017, tailings deposition was ongoing in the South Cell from the south at Saddle Dam 4 and from the east at Central Dike. Water in the South Cell is reclaimed and sent to the mill through the reclaim pump located at the northwest corner of the South Cell. Figure 1 presents the Meadowbank Mine site and Figure 2 presents the general arrangement of the South Cell TSF and the location of the reclaim pump area.

In August 2017, the decision was taken to transfer water out of the South Cell to lower its water level as a response to the increase of the alert level of Central Dike to orange. The Meadowbank Engineering team identified that this transfer of water would create a risk of tailings slurry channelling over the frozen tailings beach in the winter of 2018. This would result in the subaqueous slurry beach getting very close to the reclaim suction, potentially causing reclaim water quality issues at the mill. To mitigate this risk, it was proposed to build a permeable rockfill internal structure in front of the reclaim area to block migration of tailings deposition and increase the capacity of the TSF. The TSF Dike Designer (Golder) approved the concept and provided recommendations. Construction of the internal structure in the South Cell was conducted between October 7th 2017 and November 6th 2017.

This as-built report presents the work construction procedures for the South Cell Internal Structure. This document presents the design and construction package, a description of the construction activities and the inspection procedure during the construction activities.



Figure 1: General arrangement of the Meadowbank mine site



Figure 2: General arrangement of the South Cell TSF and the location of the reclaim pump area

SECTION 2.0 - DESIGN AND TECHNICAL SPECIFICATIONS

The construction of the internal structure is considered as a preventive measure. The concept of the internal structure was prepared by AEM and was presented to the Meadowbank Dike Review Board as well as the TSF designer (Golder Associates) and they both supported the idea. The memorandum describing the concept of the internal structure is included in Appendix B.

Design and Technical Specifications were developed in a construction package by the Meadowbank Engineering team prior to the start of the internal structure construction. This construction package is included in Appendix C. Plan and section views of the internal structure design are shown in this appendix.

The Internal Structure design has an elbow shape, the first 175m was designed above the 2016 Stormwater Dike Buttress foundation for both access convenience purpose and to minimize material to haul. The remaining 165m was designed to merge to the original South Cell shores on the other end of the south end of the South cell. The structure was designed to be built to

elevation 137.25masl in order to be 0.5m above water at the expected end of the construction period. A width of 25.5m was judged most effective to avoid building turnarounds for trucks. The structure was to be constructed in one phase (no lifts) and safety berms were identified as being required during construction. A maximum water depth of 10m was expected to be encountered. The internal structure was to be built with rockfill material. Two trenches with a depth of 2 meters were added to the design on an East–West axis on the North-South portion of the structure to promote water flow toward the reclaim pump area.

2.1 FILL MATERIAL AND PLACEMENT SPECIFICATIONS

The material to be used for the construction of the internal structure was potentially acid generating (PAG) rockfill and non-potentially acid generating rockfill (NPAG). Ultramafic rockfill was allowed to be used and no oversize limit was placed on boulders. The rockfill was to be hauled to the internal structure construction area by 100T and 150T haul trucks. After the rockfill was dumped out of the haul trucks onto the surface of the internal structure a CAT D9 dozer would push it into place. Compaction would be achieved through haul truck and dozer circulation.

SECTION 3.0 - CONSTRUCTION ACTIVITIES AND DESCRIPTION OF THE WORK

The construction work for the internal structure was done by the Mine Operations Department with guidance from the Meadowbank Engineering Department. The construction surveillance was done by AEM representatives and the Geotechnical team. Survey of the work was completed by AEM. The construction of the South Cell internal structure was conducted from October 7th 2017 to November 6th 2017 and consisted of the following activities:

- Access road construction
- Placement of rockfill
- Excavation of two trenches

Selected photographs of the work progress taken throughout the construction program, showing various aspects of the construction work are included in Appendix A. As-built drawings are available in Appendix D. The job hazard assessment (JHA) developed for the construction activity is included in Appendix F.

3.1 ACCESS ROAD CONSTRUCTION

The first step prior to all works in the internal structure construction area was to build an access road. The access to the work area was similar than the one use in 2016 for the Stormwater Dike Buttress. The access passed in front of SD3 and along the downstream

toe of Stormwater. The existing roads near Saddle Dam 3 had to be widened to provide enough room for 100T and 150T haul trucks to circulate. Pickets were placed in the tundra to indicate where the access road needed to go.

3.2 PLACEMENT OF THE LIFT OF ROCKFILL

Construction of the internal structure started on October 7th 2017 with the placement of a single lift of rockfill to a constant elevation in the South Cell. The internal structure was built using 100T and 150T haul trucks operated by the Mine Operations Department. PAG and NPAG rockfill was hauled by haul trucks to the internal structure construction area using the access road described in Section 4.1. The rockfill was sourced directly from Pit A and Pit E. The rockfill was dumped out of the haul trucks onto the surface of the internal structure and a CAT-D9 dozer pushed the rockfill in the South Cell to advance the internal structure. Compaction of the rockfill surface was achieved through haul truck and dozer circulation. Construction of the internal structure within the South Cell was only conducted during day light. The rockfill placement was completed to a final elevation of 137.25m on November 4th 2017. The built internal structure is 340m long and 25.5m wide.

The total volume of rockfill used to construct the internal structure was 81,851 tonnes or 40,926 m³. Refer to Table 1 for more details.

3.3 EXCAVATION OF TWO TRENCHES

The excavation of the two trenches having a depth of 2 m on the internal structure was completed on November 6th 2017 using an excavator. This completed the construction of the South Cell internal structure.

Destinction	Data	Waste		
Desunation	Date	Npag	Pag	Total
SOUTH-CELL-INT-	07-Oct-2017	261		261
STRUC	08-Oct-2017	261	4,437	4,698
	09-Oct-2017	174	2,784	2,958
	10-Oct-2017	1,305	2,001	3,306
	11-Oct-2017	6,177		6,177
	12-Oct-2017	6,177		6,177
	13-Oct-2017		1,392	1,392
	14-Oct-2017		2,088	2,088
	15-Oct-2017		6,177	6,177
	16-Oct-2017	2,001		2,001
	17-Oct-2017	2,262	522	2,784
	20-Oct-2017	2,958		2,958
	21-Oct-2017	1,914		1,914
	22-Oct-2017	6,054		6,054
	23-Oct-2017	903		903
	24-Oct-2017	7,904		7,904
	25-Oct-2017	6,392		6,392
	27-Oct-2017	261	261	522
	28-Oct-2017	2,523		2,523
	29-Oct-2017		2,436	2,436
	30-Oct-2017	522	261	783
	31-Oct-2017	348	870	1,218
	01-Nov-2017	1,044		1,044
	02-Nov-2017	87	1,131	1,218
	03-Nov-2017	4,803		4,803
	04-Nov-2017	3,160		3, <mark>1</mark> 60
	Sub Total	57,491	24,360	81,851
Total		57,491	24,360	81,851

Table 1 Rockfill placement by Date and Material

SECTION 4.0 - QC MONITORING DURING OPERATIONS

AEM representatives routinely conducted visual observation of work procedures during the construction of the South Cell internal structure. Review of the work procedure was done on a daily basis and corrections were made if needed. Daily surveys were conducted by AEM representatives for daily progress and to ensure that limits and grades were followed as per the construction documentation specification. Photographs of the work progress were taken throughout the construction of the internal structure. Daily spotter inspection forms for each work shift were issued and filed by AEM representatives as well (see Appendix E). A visual monitoring program consisting of frequent field visits by the Geotechnical team was also put into place to verify the integrity of the internal structure. No instabilities or adverse conditions were encountered during the construction of the internal structure.

As-built report by:

Rebecca Cousineau, P.Eng Water and Tailings Engineers, Meadowbank Engineering

Pier-Eric McDonald, Water and Tailings Specialist, Meadowbank Engineering

Reviewed by:

Frédérick L.Bolduc, P.Eng Geotechnical Coordinator, Meadowbank Engineering APPENDIX A Selected Internal Structure Construction Photos



Photo 1: Placement of rockfill over 2016 Stormwater Dike buttress (October 9, 2017).



Photo 2: Continued (October 18, 2017).



Photo 3: Access area of internal structures over Stormwater Dike 2016 buttress (October 18, 2017).



Photo 4: View from the end of the structure on the platform (November 2, 2017).



Photo 5: View of the dumping process from Saddle road (November 3, 2017).



Photo 6: View on the platform towards the end of the structure (November 4, 2017).



Photo 7: Close up view of the ice sheet collapsing as material placement occurs (November 4, 2017).



Photo 8: Backhoe working on the first trench (November 5, 2017).



Photo 10: View of the completed trenching (November 6, 2017).



Photo 11: General view of the completed internal structure (November 10, 2017).



Photo 9: Close up view of a backhoe working on the first trench (November 5, 2017).

APPENDIX B Memorandum – SC internal structures



TECHNICAL MEMORANDUM

To: Jamie Quesnel, Yves Boulianne, Luc Chouinard, Meadowbank Engineering

From: Meadowbank Engineering

Date: Thursday, September 21, 2017

Subject: South Cell Internal Structure

This memorandum presents the proposed concept for the construction of the South Cell Internal Structure and provides the details required to seek stakeholder approval for the project.

Project Overview

During the August 2017 deposition plan update, the Meadowbank Engineering team identified a risk of slurry channelling over the frozen tailings beach during the winter of 2018. This could result in the subaqueous slurry beach reaching the reclaim suction, causing reclaim water quality issues at the mill. This would cause an increase in freshwater usage and overall pond volume putting in jeopardy the water freeboard limit. To mitigate this risk, the construction of a permeable rockfill internal structure in front of the reclaim area has been evaluated to block migration of the tailings toward the reclaim pump (Figure 1).

The South Cell Internal Structure would be built to El. 138m (the current water level in the South Cell is at El. 136.8m), have a max structure height of 8m (the bottom of the pond at the deepest spot along the structure is elevation 130m), and have a crest width of 30m. 2m deep trenches would then be excavated on the crest of the structure to allow water to flow to the reclaim area. This structure would secure the South Cell water management strategy to reduce the overall pond volume in response to Central Dike seepage and the tailings cell closure requirements. The TSF designer (Golder) agreed with the conceptual engineering plan of this structure and provided recommendations on the construction procedure.

Prior to building the internal structure the current reclaim pump suction will be moved to a new location within the area that will be separated from the rest of the South Cell by the internal structure (Figure 1). No constraints are foreseen for the tailings deposition and reclaim water pumping during and after the construction of this structure.

Similar Projects

Two similar projects have been done in the past at Meadowbank and have shown that these types of structures are reliable and feasible. Those projects are the Stormwater Dike Buttress (constructed in fall 2016) and the North Cell Internal Structures (constructed in early 2014). Experience from these two projects will be used to create the JHAs, construction procedures and construction monitoring program.

Specifically, the North Cell Internal Structures, built during winter conditions, had a similar design basis to secure reclaim pumping operations and optimize tailings storage in the southern portion of the North Cell TSF.

Material Quantities

The South Cell Internal Structure will require 62,000 m³ (125,000 T) of NPAG rockfill. This quantity has 20% contingency added based on experience from the Stormwater Dike Buttress project.

Timing of Construction

It is estimated that 25 days would be required for the construction of this structure. The latest production plan produced for the 2018 Budget shows an opportunity in October to build the structure as 82,000 m³ of NPAG (soapstone) is planned to be sent to the 135 dump (similar haul cycle). Construction at Saddle Dam 3 will be complete in September and would not interfere with this project.

Experience from the North Cell Internal Structure project has shown that this type of structure would require fewer resources if built before ice formation in the area. Otherwise ice has to be removed using a backhoe from the front of the placement area as construction progresses, increasing construction time. In addition, delaying the construction will lead to an increase in material requirements due to a rise of the reclaim pond level.

Stability Studies

The South Cell Internal Structure was discussed with Golder to determine if any stability studies would need to be done prior to construction. Golder and AEM agreed that the stability study done previously for the Stormwater Dike Buttress is adequate for this project.

Construction Procedure

The construction procedure for the internal structure is based on what was done for the Stormwater Dike Buttress in 2016. Construction of the structure beyond the water limit would only proceed during day shift. The structure would be built with the guidance of survey (grade shots and width checks). Only 100T haul trucks would be used with experienced operators. A spotter would be required to monitor the foundation during construction and all work will stop if any movement is discovered during construction.

The access for the haul trucks has been considered and is proposed to be through the Stromwater Dike Buttress (Figure 2). This access will require minimal corrective work in the form of material placement above the South Cell water level (included in the volume and construction time estimate). Widening of the Saddle Road as it turns toward Saddle Dam 3 will also be required for 100 T access.

For safety reason, the first rockfill lift will be built 0.5m above water. After the placement of the first lift, a second rockfill lift will be place to El. 138m. The dumping platform will be kept as horizontal (flat) as possible to ease dumping. Haul trucks will dump their loads one haul truck length away from the end of the road. The dozer will back itself away from the end of the structure and be located in front of the haul truck while dumping occurs. This is to reduce the amount of weight at the end of the structure to promote road stability.

Once the rockfill placement is finished, a shovel will excavate two 2.5 m deep trench in the structures. Excavation material will be cast out of the road to allow access of the trench in order to perform maintenance of the structure if required. The width of the trench will be around 5 m at the crest with slope respecting the 1:1 ratio. Once the trench will be completed, a bumper will be built over the road to block access to any equipment and vehicle over the South Cell Internal Structure.

Next Steps

- Receive approval for the construction of the South Cell Internal Structure;
- Complete construction package with detailed design drawings, material placement guidelines, and crest coordinates;
- Present construction package to the Mine and Engineering stakeholders;
- Coordinate with planner for inclusion and mine planning deliverables (3MR & Weekly)
- Create a JHA for the construction of the structure



Figure 1: The proposed South Cell Internal Structure with the current and next reclaim pump suction locations.



Figure 2: The construction area access, as seen from Stormwater Dike.



Figure 3: Road widening will be required on the Saddle Road as it turns toward Saddle Dam 3 since currently the road width is only enough for light vehicles. A new road could also be constructed to reduce the length of the hauling route, as seen on the right-hand side of the photo.

APPENDIX C Construction Package









SOUTH CELL INTERNAL STRUCTURES

Construction package October 2017





SC INTERNAL STRUCTURES

CONTEXT

- Required for enhanced reclaim suction protection from tailings beaches (lower tubidity at the mill)
- Will increase the capacity of the South Cell by depositing more tailings above water
- Approved Dike designer practice for stability (Golder associates)
- **Product:** re-enforcing 2016 SWD buttress by using same access
- **7** No impact on production since 150,000t were budgetted to go to NPAG 135 in October

DESIGN OF THE INTERNAL STRUCTURE



OVERVIEW



EXCAVATION	ROCKGROUP	Density	Tonnage
		T per M**3	Т
MINED		2.15	122,538.3
	Total	2.15	122,538.3

DESIGN OF THE INTERNAL STRUCTURE



AERIAL PHOTOS





SOUTH CELL INTERNAL STRUCTURES

DESIGN SPECIFICATIONS

- Access by SWD because access from Saddle road would be too steep, on slippery bedrock and would require critical cables and pipe moves
- Material minimized by choosing narrower spot in the South Cell
- 25.5m wide when on water to avoid turn arounds over water to be consistent with 2016 SWD buttress rationale
- Elevation @ 137.25 i.e. 0.5m over October forecast EOM water elevation as per last deposition plan. Berms needed. (same principle as 2016 SWD that was built @ 132)
- Find the works by trenching at 2 locations to allow water flowing



SOUTH CELL INTERNAL STRUCTURES

CONSTRUCTION SPECIFICATIONS

- Haul trucks must dump their loads one haul truck length away from the end of the road. The dozer must back itself away from the end of the structure and be located in front of the haul truck when dumping occurs. This is to reduce the amount of weight
- Monitoring needs to done closely with survey (grade shots and width checks)
- → Use 100T trucks only & dozer No 150T truck
- Road can only be built on day shifts
- **7** Construction rate: Around 10,000T/day when Day shift only
- **7** Total timeframe: about 2 days for widening actual roads
 - Construction: 14 days

DESIGN OF THE INTERNAL STRUCTURE



MORE DETALED





DESIGN OF THE INTERNAL STRUCTURE

SECTION VIEWS



MATERIAL SPECIFICATIONS & AVAILABILITY



SOUTH CELL INTERNAL STRUCTURES



ROLES & RESPONSIBILITIES WITH NEXT STEPS DETAILS



- Assess and modify current accesses (mine GF & Prod. ENG)
- Survey to extract crest coordinates and provide stakes and/or required alignement (from work files in the next slide) with daily follow up for construction (survey)
- Assign "spotter" for the construction (Geotech ENG)
- Ensure planning and quantities are met (Prod. ENG)
- Team review the JHA of SWD 2016 buttress to be applied for this internal structures project (as well as latest Vault dewatering roads)
 <u>P:\Engineering\08-Health&Safety\03-JHA\GEOTECH JHA</u>

(JHA to be coordonated by Geotech coordinator)

7 Works execution (mine, survey)

ACCESS WORKS





SYNERGY JOB 1 : MOVE SOIL FROM OLD TO NEW LANDFARM



- **7** Move soil at old landfarm (near SD3-SWD) to new landfarm
- Approximately 1200 m³

SPOTTER FORM

SC INTERNAL STRUCTURE / SWD BUTTRESS Construction ongoing South Cell Pond area:	s area:
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Structure	
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tension cracks or settlement is present on the buttress/structure and growing larger evacuate all workers from buttres	
material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.	s on Channel 11. Call Geotech Superviso



ATER DIKE BUTTRESS | 13

STORMWATER DIKE BUTTRESS



WORK FILES

- Work files can be found in <u>P:\Engineering\05-Geotechnic\06-TailingsManagement\2 -</u> <u>SOUTH CELL\14- Internal structure Oct2017</u>
- **7** GEMS surfaces:
 - Internal Structure: ALLtopotr SC / internal_structures / 2017
 - Initial topo: ENGdraftECtr stormwater / 2016 / topo
 - Water elevation: ALLtopotr Water / 136.75
 - SC Oct 2017 deposition surface (incl. topo up to Saddle road)
 ALLtopotr South_cell / EOM / Oct2017
- GEMS Polylines : ALLfeatures Tag: SC_internal_structures2017

APPENDIX D As-Built Drawings


or-mb\Deektop\3Dview_se-built.dwg, 31 Dec 2017

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APPENDIX E Spotter Inspection Forms

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me: 18415	Supervisor (print)	Supervisor (signature)
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If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

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	ITERNAL STRUCTUF AGNICO-EAGLE MI	RES VISUAL IN NES MEADOWBANK PRO	SPECTION FORM	
Date: 11-113-17	Observer (print)	DOMINIKK	Observer (signature)	CITZ
ime: 6:00	Supervisor (print)		Supervisor (slonature)	
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SC INTERNAL STRUCT	URE / SWD BUTT	RESS		
Operative time and the	South Cell Pond area:	0	SWD Buttress area:	G
Construction ongoing	Daily advance (rough): Comment / Observation:			
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	Comment / Observation:			
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<i></i>	Comment / Observation:			
Settlement present?	Location of Settlement:			
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slope? (Loose rocks, bułging, etc.) <u>General Observations:</u> <u>FUER YTHIN 6</u>	Description:		b se reil Se reil	

If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

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AGNICO EAGLE 📏 SC II	NTERNAL STRUCTU AGNICO-EAGLE M	IRES VISUAL MINES MEADOWBANK	INSPECTION FORM	
Date: 6411 2017	Observer (print)	Vincent Puro	webserver (signature)	Ninthin
Time: 10:00/16:30	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUC	TURE / SWD BUTT	RESS		
	South Cell Pond area:	R	SWD Buttress area:	Ø
Construction ongoing	Daily advance (rough):	15 m		
·	Comment / Observation:			
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	Comment / Observation:			
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	Comment / Observation:			
Settlement present?	Location of Settlement:			
	-			
8	Condition of Settlement:			
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	Comment / Observation:	The SU	one is made	of Looke Rochts.
Any movement present on the	Location:	+	in the second	1 Inter the
slope? (Loose rocks, bulging,				
eic. <i>j</i>	Description:			
General Observations:				and the second s
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				and the South Suit
REQUIRED ACTIONS:			and the second second	
If tension cracks or settlement are present or	n the buttress/structure inform Geo'	technical Supervisor o	n Channel 10.	
If tension cracks or settlement is present on '	the buttress/structure and growing	larger evacuate all wor	rkers from buttress on Channel 11	. Call Geotech Supervisor,
If material failure occurs on the buttress :	and a worker is in danger call a C	ode 1 on Channel 11		

If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

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AGNICO EAGLE	INTERNAL STRUCTU Agnico-eagle n	IRES VISUAL IN MINES MEADOWBANK PRO		
Date: 12-10-17	Observer (print)	DOMMICK	Observer (signature)	
Time: 7,00	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUC	TURE / SWD BUTT	TRESS		No. of Street, or Stre
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	<u>15 m</u>	SWD Buttress area:	
Tension crack present?	Y N N Comment / Observation: Location of Tension Cracl	k:		
	Condition of Tension Crac	ck:		
Settlement present?	Y D N Comment / Observation: Location of Settlement:			
STORMWATER DIKE	SLOPE (only applicable Y I N I	when dumping on bu	ttress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location: Description:			
General Observations: EUERV THING	S SAFE			
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				der .
REQUIRED ACTIONS:				
If tension cracks or settlement are present of If tension cracks or settlement is present or If material failure occurs on the buttress	on the buttress/structure inform Geor the buttress/structure and growing and a worker is in danger call a C	technical Supervisor on Cha larger evacuate all workers code 1 on Channel 11.	annel 10. from buttress on Channel 11. Call Geotech Supervisor.	

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AGNICO EAGLE 📏 SC II	NTERNAL STRUCTU	RES VISUAL IN INES MEADOWBANK PRO		
Date: <u>13-10-17</u> Time: <u>7:00</u>	Observer (print) Supervisor (print)	<u>nomiwick</u>	Observer (signature) Supervisor (signature)	
SC INTERNAL STRUC	TURE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	<u>5</u> M	SWD Buttress area:	
Tension crack present?	Comment / Observation: Location of Tension Crack	:		
	Condition of Tension Crac	k:		
Settlement present?	Y N N Comment / Observation: Location of Settlement:			
	Condition of Settlement:			
STORMWATER DIKE S	LOPE (only applicable y	when dumping on bu	rttress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N N Comment / Observation: Location:			
	Description:			
General Observations: EUGRVTHINL	IS SAFE			
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REQUIRED ACTIONS:		1		
If tension cracks or settlement are present or If tension cracks or settlement is present on it If material failure occurs on the buttress a	n the buttress/structure inform Geote the buttress/structure and growing la and a worker is in danger call a Co	echnical Supervisor on Charger evacuate all workers ode 1 on Channel 11.	annel 10. from buttress on Channel 11.	Call Geotech Supervisor.

P\Engineering\05-Geotechnic\05-TailingsManagement\2 - SOUTH CELL\14- Internal structure Oct2017\7- Spotter forms\South Cell Intern Structures Inspection Formxlsx|Sheet1

AGNICO EAGLE	VTERNAL STRUCTURES VISUAL AGNICO-EAGLE MINES MEADOWBANK	INSPECTION FORM	
Date: 13 Oct 2017 Time: 14:30	Observer (print) V (Acent Asran Supervisor (print)	Lew Observer (signature)	Inth
SC INTERNAL STRUCT	FURE / SWD BUTTRESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	SWD Buttress area:	₽ ₽
Tension crack present?	Y N N S Comment / Observation: Location of Tension Crack:		
	Condition of Tension Crack:		
Settlement present?	Y N N Comment / Observation:		
	Condition of Settlement:		
STORMWATER DIKE S	LOPE (only applicable when dumping o	n huffress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N N N Comment / Observation: Location: / OOSE MCLAS ON Description:	the slope	
General Observations: <u>Acat in lat of t</u> <u>Die per area co</u> <u>advance.and</u>	the lack of tructions.	L de mai Britochure Britochure	
REQUIRED ACTIONS:			
If tension cracks or settlement are present on If tension cracks or settlement is present on t If material failure occurs on the buttress a	the buttress/structure inform Geotechnical Supervisor or he buttress/structure and growing larger evacuate all wor and a worker is in danger call a Code 1 on Channel 11	n Channel 10. rkers from buttress on Channel 11.	Call Geotech Supervisor.

If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

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AGNICO EAGLE 📏 SC I	AGNICO-EAGLE MINES MEADOWBANK PROJECT
Date: actolen 13 2017	Observer (print) Vincent Quarder Observer (signature)
Time: 16:00	Supervisor (print) Supervisor (signature)
SC INTERNAL STRUC	TURE / SWD BUTTRESS
Construction ongoing	South Cell Pond area: Marce (rough): 20 m SWD Buttress area: Marce (rough): 20 m
Tension crack present?	Y N N Comment / Observation: Location of Tension Crack:
	Condition of Tension Crack:
Settlement present?	Y N N Comment / Observation: Location of Settlement:
	Condition of Settlement:
STORMWATER DIKE	LOPE (only applicable when dumping on buttress area)
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N B Comment / Observation: Location: The slope is made of loose Rochs. Description:
General Observations:	
The structure is the floor is on gnade.	in good condition, pood and aluxayr
REQUIRED ACTIONS:	
tension cracks or settlement are present o	the buttress/structure inform Geotechnical Supervisor on Channel 10.
f material failure occurs on the buttress	ne outtress/structure and growing larger evacuate all workers from buttress on Channel 11. Call Geotech Supervisor, nd a worker is in danger call a Code 1 on Channel 11.

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AGNICO EAGLE					
Date: 14-10-17	Observer (print)	DOMINICK	Observer (signature)	66	\square
Time: <u>7:00</u>	Supervisor (print)		Supervisor (signature)		
-					
SC INTERNAL STRUC	FURE / SWD BUTT	RESS			
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	IOM	SWD Buttress area:		
Tension crack present?	Y I N E Comment / Observation: Location of Tension Crack	.			- 1
	Condition of Tension Crac	k:			
Settlement present?	Y N N D Comment / Observation: Location of Settlement:				_
	Condition of Settlement;				
STORMWATER DIKE S	LOPE (only applicable v	when dumping on be	uttress area)		
Any movement present on the slope? (Loose rocks, bulging,	Y N N D Comment / Observation: Location:				_
etc.)	Description:	-1.3.1			-
EUBRYTHING 1	S SAFE				
			Referent		7
			- Stream		AT A
REQUIRED ACTIONS:					Alex Card
If tension cracks or settlement are present or	the buttress/structure inform Geote	echnical Supervisor on Ch	iannel 10.		
If tension cracks or settlement is present on t If material failure occurs on the buttress a	the buttress/structure and growing la and a worker is in danger call a Cr	arger evacuate all workers ode 1 on Channel 11.	From buttress on Channel \$1.	Call Geotech Supervis	or,

P: Engineering 05-Geotechnic 06-Tailings Management 2 - SOUTH CELL 14- Internal structure Oct 2017/7- Spotter forms (South Cell Intern Structures Inspection Form.xlsx) Sheet 1

AGNICO EAGLE	ITERNAL STRUCTURES VISUAL AGNICO-EAGLE MINES MEADOWBANK	INSPECTION FORM	
Date: 14/10/ 2017 Time: 10 100 Am	Observer (print) Vincent Dura Supervisor (print)	(Observer (signature) Supervisor (signature)	hill
SC INTERNAL STRUCT	URE / SWD BUTTRESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	SWD Buttress area:	Q-
Tension crack present?	Y N N Comment / Observation:		
	Condition of Tension Crack:		
Settlement present?	Y N N De Comment / Observation:		
STORMWATER DIKE S	LOPE (only applicable when dumping or	buttress area)	
Any movement present on the slope? (Loose rocks, bulging,	Comment / Observation:		
etc.)	Description:		
General Observations:			
the Fiond is on	n groude.		
the worth cel	us coming from		
	<u> </u>	interna Stricture	
total tonnes	de, 983 since project	and the	
REQUIRED ACTIONS:			
If tension cracks or settlement are present on	the buttress/structure inform Geotechnical Supervisor or	Channel 10.	
If tension cracks or settlement is present on the If material failure occurs on the buttress ar	e buttress/structure and growing larger evacuate all wor ad a worker is in danger call a Code 1 on Channel 11.	kers from buttress on Channel 11. (Call Geotech Supervisor.

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P\Engineering\05-Geotechnic\06-TailingsManagement\2 - SOUTH CELL\14- Internal structure Oct2017\7- Spotter forms\{South Cell Intern Structures Inspection Form.xlsx}Sheet1

AGNICO EAGLE 📏 SC II	NTERNAL STRUCTU AGNICO-EAGLE M	RES VISUAL IN INES MEADOWBANK PRO		
Date: 15-10-17	Observer (print)	DOMINULL	Observer (signature)	CA-2
Time: <u>7:00</u>	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUCT	TURE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	<u> 25 M</u>	SWD Buttress area:	
Tension crack present?	Y I N Provide the N N Provided	:		
	Condition of Tension Crac	k:		
Settlement present?	Y I N Comment / Observation: Location of Settlement:			
	Condition of Settlement:			
STORMWATER DIKE S	LOPE (only applicable v	when dumping on bu	rttress area)	
Апу movement present on the slope? (Loose rocks, bulging, etc.)	Y D N Z Comment / Observation: Location: Description:			
General Observations: EUGRYTHING	IS SAFE			
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REQUIRED ACTIONS:				
If tension cracks or settlement are present or If tension cracks or settlement is present on t If material failure occurs on the buttress a	the buttress/structure inform Geote the buttress/structure and growing la ind a worker is in danger call a Co	echnical Supervisor on Ch arger evacuate all workers ode 1 on Channel 11.	annel 10. from buttress on Channel 11.	Call Geotech Supervisor.

P\Engineering\05-Geotechnic\06-TailingsManagement\2 - SOUTH CELL\14- Internal structure Oct2017\7- Spotter forms\South Cell Intern Structures Inspection Form.xlsx]Sheet1

AGNICO EAGLE 📏 SC II	NTERNAL STRUCTURES VISUAL I Agnico-eagle mines meadowbank p	
Date: 15/10/2014	Observer (print) Villent Dura	CObserver (signature)
Time:	Supervisor (print)	Supervisor (signature)
SC INTERNAL STRUCT	FURE / SWD BUTTRESS	
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	SWD Buttress area:
	Y D N D Comment / Observation:	
Tension crack present?	Location of Tension Crack:	
	Condition of Tension Crack:	
Settlement present?	Location of Settlement:	
	Condition of Settlement:	
STORMWATER DIKE S	LOPE (only applicable when dumping on	buttress area)
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Any movement present on the slope? (Loose rocks, bulging,	Location:	
etc.)	Description:	
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the internal	structure (Former).	
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REQUIRED ACTIONS:		
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If material failure occurs on the buttress a	nd a worker is in danger call a Code 1 on Channel 11.	

P/Engineering/05-Geotechnic/06-TailingsManagement/2 - SOUTH CELL/14- Internal structure Oct2017/7- Spotter forms/[South Cell Intern Structures Inspection Formx/sss]Sheet1

ite: 2)-10-2017	Observer (print) Mickael El-Hachem	Observer (signature)	INF
me: 07:00	Supervisor (print)	Supervisor (signature)	
C INTERNAL STRUC	CTURE / SWD BUTTRESS		
27.74	South Cell Pond area:	SWD Buttress area:	0
Construction ongoing	Daily advance (rough):		, A2 11
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Settlement present?	Location of Settlement:		·
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slope? (Loose rocks, bulging	Location:		
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,	Description:		
General Observations:			
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		and the second	Constant of the second

If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11. P\Engineering\05-Geotechnic\06-TailingsManagement\2 - SOUTH CELL\14- Internal structure Oct2017\7- Spotter forms\South Cell Intern Structures Inspection Form.xtsx]Sheet1

	NTERNAL STRUCTURES VIS AGNICO-EAGLE MINES MEADOV	UAL INSPECTION FORM	
te: <u>22-10-17</u>	Observer (print)	CS Up observer (signature)	Molles h.M
18: 7:30 Cm	Supervisor (print)	Supervisor (signature)	
INTERNAL STRUC	TURE / SWD BUTTRESS		
Construction ongoing	South Cell Pond area:	SWD Buttress area:	
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	Condition of Tension Crack:	24	
Settlement present?	Y D N 🔀 Comment / Observation: Location of Settlement:		
	Condition of Settlement:		
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etc.)	Description:		1
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	AGNICO-EAGLE MINES MEADOWBANK PR	IOJECT
ate: OCT 24 2017	Observer (print) Travis Rusk	Observer (signature)
me:	Supervisor (print)	Supervisor (signature)
C INTERNAL STRUC	TURE / SWD BUTTRESS	
	South Cell Pond area:	SWD Buttress area:
Construction ongoing	Daily advance (rough):	
	Comment / Observation:	
	Y D N 🕱	
	Comment / Observation:	
Tension crack present?	Location of Tension Crack:	
	Condition of Tension Crack:	
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	Comment / Observation:	
Settlement present?	Location of Settlement:	
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etc.)	Description:	er en antier en antie En antier en antier e
General Observations:		
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		h.jamai Structure

If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

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	AGNICO-EAGL	E MINES MEADOWBANK PROJECT
Date: 25-10-17	Observer (print)	Cillara las
ime: 10h 15	Supervisor (print)	Contraction (signature)
	Portioor (pinit)	Sequeleccil Supervisor (signature)
SC INTERNAL STRU	CTURE / SWD BUT	TRESS
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Construction ongoing	Daily advance (rough):	SWD Buttress area:
	Comment / Observation	
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_	Comment / Observation:	
Tension crack present?	Location of Tension Crac	ж:
	Condition of Tension Cra	ick:
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	Comment / Observation	
Settlement present?	Location of Settlement	
	Condition of Settlement:	
DINE DINE	SLOPE (only applicable	when dumping on buttress area)
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ny movement present on the	Comment / Observation:	
etc.)	Location:	
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neral Observations:		
	<u>g:</u>	
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		Structure
JUIKED ACTIONS		
on cracks or settlement are present on	the buttress/structure inform Geolec	adical Sugar to

L114- Internal structure Oct2017\7- Spotter forms\South Cell Intern Structures Inspection Form.xtsx)Sheet1

Date: 64-27/260	Observest	D-Car A		
ime: 091.45	Observer (print)	refer Rulastart	Observer (signature)	Harcelo
	Supervisor (print)	Organ borner	Supervisor (signature)	Sector
SC INTERNAL STRU	CTURE / SWD BUTT	PEcc		1.
Construction	South Cell Pond area:	7	SW/D Puttross and	
construction ongoing	Daily advance (rough):		SWD Builless area:)
	Comment / Observation.			
			And the second	
Terry	Comment / Observation:			
rension crack present?	Eucation of Tension Crack:			
	Condition of Tenning On 1			
	Condition of Tension Crack			
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	Comment / Observation			
Settlement present?	Location of Settlement			
	Condition of Settlement:			
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ORWWATER DIKE	SLOPE (only applicable wi	ion dumning on have		
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ny movement present on the	Comment / Observation:			
lope? (Loose rocks, bulging	Location:			
etc.)				
	Description:			
ineral Observations:			Construction of the second states of the second sta	And the second se
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ime:	Observer (print)	ALE(12	PARD	Observer (signature)		Allacito
	Supervisor (print)	Jectro	barress	Supervisor (signature	;)	Organte
SC INTERNAL STRU	CTURE / SWD BUT	TRESS		·	··· ····	
Construction oppoint	South Cell Pond area:	k		SWD Buttross area		
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Date: <u>3/10/17</u>	Observer (print)	Choris DRILLA BARRAN
lme:	Supervisor (print)	JLAFORCE Supervisor (signature)
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AGNICO EAGLE 🔆 SC IN	NTERNAL STRUCTU	URES VISUAL IN MINES MEADOWBANK PRO		
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later <u>NU IX III</u>	Observer (print)	XIVIN	NIN LOBSETVET (ciantum)	At 11
ime: 11.00 AM	Supervisor (print)	SLOT	Supervisor (signature)	Alill
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lime: <u>1:30</u>	Supervisor (print) Superv	visor (signature)
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erial failure occurs on the buttress an	a worker is in danger call a Code	1 On Channel 44							
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AGNICO EAGLE									
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AGNICO EAGLE 🔆 SC		RES VISUAL	INSPECTION FORM	
Date: Nov D4/2017	Observer (print)	TO HEADOWBANK P	PROJECT	
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ion cracks or settlement are present on the but	Decletomber 1.4			
ion cracks or settlement is present on the buttre	ss/structure inform Geotechn	ical Supervisor on Channel	10	
tering105-Geotechnic106-TailingsManagement2 - Source	ker is in danger call a Code :	on Channel 11.	buttress on Channel 11, Call Geotech Supervisor.	
The second secon	CELL114- Internal Structure Oct2017)	7- Spotter forms\South Cell Inten	n Structures Inspection Form.xtsx}Sheet1	

APPENDIX F Signed JHA



South Cell Internal Structure Construction

FACILITY / SITE:		Meadowba	ınk	DATE:	October 4 th 2017
DEPA	RTMENT:	Engineerin	g/Mine	REVIEW DATE(S):	-
JOB B	JOB BEING ANALYSED:		internal structure	TEAM LEADER:	Walter Standing / Geotech team
JOB D	ESCRIPTION: An internal stru	ucture made	of rockfill is required t	o be built in the South Cell to	o optimize the tailings deposition. This
structu	re will be built by dumping rock	till in the wa	ater of the South Cell o	ver the SWD buttress and or	n a foundation of till and lakebed sediment
Step	Describe Job Step	S	Hazards/PC	otential incidents	Risk Control Methods Required
1	Mine trucks (100t only) will ha from the pit to the area passir access adjacent to the airstrip Road).	aul rockfill ng by the o (Saddle	Haulage on access a Potential traffic on the airstrip. Coactivity with the Dil trucks around the Sad	djacent to airstrip. e access adjacent to kes construction haul ddle Dam 3.	 Only 100t haul trucks to be used with experienced operators. Only same experienced operators will be allowed to perform this task. Speed limit while hauling to the internal structure is 20km/h. Equipment must be cleared from the access adjacent to the airstrip when plane is on final approach and during takeoff. Job supervisor will provide the go ahead to resume haulage on the access adjacent to the airstrip. All equipment to be on dike construction channel (Channel 10). Good visibility and communication on the airstrip access between haul trucks and around the SD3 structure. Surveyor will install picket to delimit the road widening (to make sure the work is not near the electrical cable) Maintain adequate berms on the access.



South Cell Internal Structure Construction Mine General Foreman: Walter Standing/Pat Camarotto Geotechnical Coordinator : Frédérick L.Bolduc / Michel Groleau Engineering Superintendent: Pierre McMullen

Surveyor: AEM

			Communication will be sent to Mill, E&I, Mine and Sana before the beginning of the work to inform them of the task.
2	Working on water	Haulage traffic in the construction area. Road stability issues (settlement and potential road footing failure). When near water potential for falling in the water, drowning or hypothermia.	Work will only be done during the day shift. Prior to entering the area, the area must be analyzed for all hazards (i.e. other hauling equipment, rolling surface quality, road stability, etc). Berms to be maintained at the adequate height for 100t haul trucks. Constant inspections by all operators must be completed to look for the development of tension cracks in the rockfill structure. In the event a tension crack is observed work is to be suspended, the construction area cleared of all personnel and equipment, and the supervisor contacted. An inspection by the Geotechnical Engineer and Mine General Foreman will then be conducted to re-evaluate the construction. Observer will be added during dayshift while the internal structure is being constructed. Observer will work on the water side of the internal structure. Observer will periodically walk the rockfill structure to look for tension cracks and settlement.



South Cell Internal Structure Construction

			Inspections by the Geotech Technician must be conducted. At least 2 field visit per shift will be completed. Haul truck drivers and dozer operators need to disconnect seat belts while on water base to allow for escape should the equipment fall in water. Wear all required PPE and lifejackets when on the rockfill structure built in the water.
			Haul truck drivers and dozer operators need to have a hammer to shatter the windows since they are sealed and can't be opened, that is to allow for escape should the equipment fall in water.
			A life saver ring on a stand need to be installed 50 m from the edge of the rockfill structure water and kept there at all time during the earthworks. The observer will be responsible to move this ring
			All personnel on foot need to wear proper PPE (life vest) before entering the area over water.
3	Haul truck must turn around clockwise to the dozer and backup to the dumping area.	Road stability issues (settlement and potential road footing failure). If near water potential for falling in the water, drowning or hypothermia.	Refer to point (2) – Working on water The dozer operator will act as a spotter for the haul trucks when backing up and must maintain adequate visual or radio contact.



South Cell Internal Structure Construction Mine General Foreman: Walter Standing/Pat Camarotto Geotechnical Coordinator : Frédérick L.Bolduc / Michel Groleau Engineering Superintendent: Pierre McMullen Surveyor: AEM

4	Haul truck dumping load at the dozer location.	Road stability issues (settlement and potential road footing failure). If near water potential for falling in the water, drowning or hypothermia.	Refer to point (2) – Working on water The dumping platform must be kept about 2% inclined at dumping edge as of normal procedures. Only experienced haul truck drivers will be allowed to perform this job. The haul truck must dump its load one haul truck length away from the end of the road. The dozer must back itself away from the end of the platform and be located in front of the haul truck when dumping occurs. This is to reduce the amount of weight at the end of the internal structure to promote road stability.
5	Dozer to push the load to advance the platform construction.	Road stability issues (settlement and potential road footing failure). If near water potential for falling in the water, drowning or hypothermia.	Refer to point (2) – Working on water The dumping platform must be kept about 2% inclined at dumping edge as of normal procedures.
6	Technical personnel (Surveyors and Geotech tech) performing their daily follow up.	Be hit by the dozer or haul trucks. If near water potential for falling in the water, drowning or hypothermia.	Refer to point (2) – Working on water Ensure good communication between the personnel on foot and the production equipments.
7	Unauthorized vehicle accessing the structure	Falling in water	The access will be bermed at the end of the job when the excavator trench the



South Cell Internal Structure Construction Mine General Foreman: Walter Standing/Pat Camarotto Geotechnical Coordinator : Frédérick L.Bolduc / Michel Groleau Engineering Superintendent: Pierre McMullen Surveyor: AEM

			structure
Permits Require	d (check all t	that apply)	
LOTO: Confined Space Hot work Pre Excavation Electrical Work Lift Permit			
PPE (check all t	hat apply)		
Safety Glasses	X Safet	ty Boots	X
Hardhat	X Face	shield	
Kevlar Gloves	Earp	lugs	
Chemical Gloves	Earn	nuffs	
Apron	Cher	nical clothing	
Goggles	Resp	pirator	
Emergency Info	rmation :	CODE 1 C DISPATCH	ODE 1 CODE 1 - ADVISE SUPERVISOR IN CHARGE OF WORK (MINE SUPERVISOR / I)
Evacuation Route	e:	EXIT TOWARI	DS PORTAGE WTP (TOWARDS AWPR)
Evacuation Signa	al:		
Assembly Point:	ach/chowar:	MINE DISPAT	CH AREA
Emergency phon	asn/snower:	CODE 1 CODE	1 CODE 1 SUPERVISOR OFFICE RADIO CHANNEL 13
First aid location:		CONTACT SU	PERVISOR
Apron Chen Goggles Chen Resp Emergency Information : Evacuation Route: Evacuation Signal: Assembly Point: Location of Eyewash/shower: Emergency phone number: First aid location:		CODE 1 CODE EXIT TOWARI	ODE 1 CODE 1 - ADVISE SUPERVISOR IN CHARGE OF WORK (MINE SUPERVISOR / 1) DS PORTAGE WTP (TOWARDS AWPR) CH AREA E 1 CODE 1 SUPERVISOR OFFICE RADIO CHANNEL 13 PERVISOR



South Cell Internal Structure Construction

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Note: LOTO acronym for Lock out tag out

Team Member	Signature	
Team Member	Signature	
Supervisor	Signature	
H&S Coordinator	Signature	
H&S Superintendent	Signature	



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ini roan vui lay vui	Altrenetre Lavelle	Haroven Ghapi	Eric Cité	Kevin Champane	Jason Gends -	orents the Walt	DENIS RUSSELIN	Frederick C. Buduc				MARKUS UCHTENHAGEN	
	Team Member	Team Member	Team Member	Team Member	Team Member	Team Member	Team Member	Team Member	Team Member	Team Member	Supervisor	H&S Coordinator	H&S Superintendent

Note: All printed copies of this document are uncontrolled

October 3rd, 2017