# **Appendix B5**

# 2017 TSF 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 7<sup>th</sup> 2017 to November 6<sup>th</sup> 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**

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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 toward the reclaim pump. Building the internal structure would also help optimize 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 7<sup>th</sup> 2017 and November 6<sup>th</sup> 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.

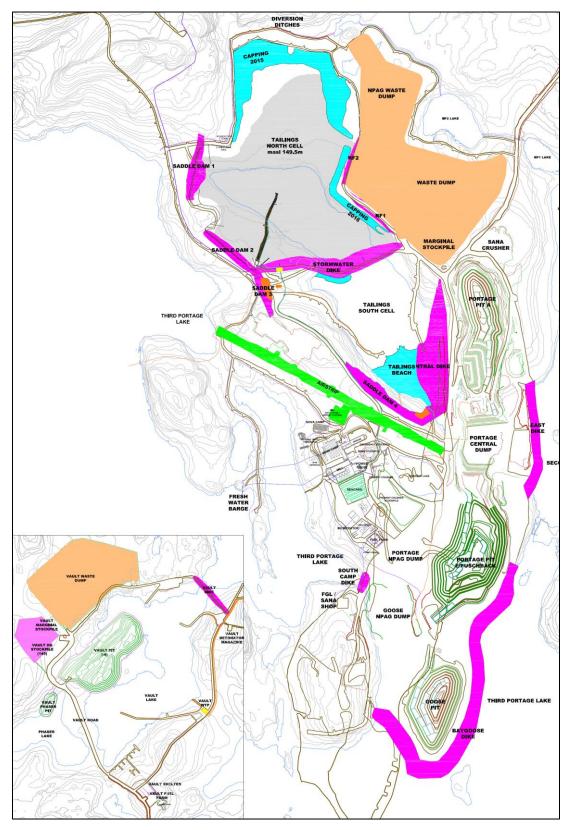


Figure 1: General arrangement of the Meadowbank mine site

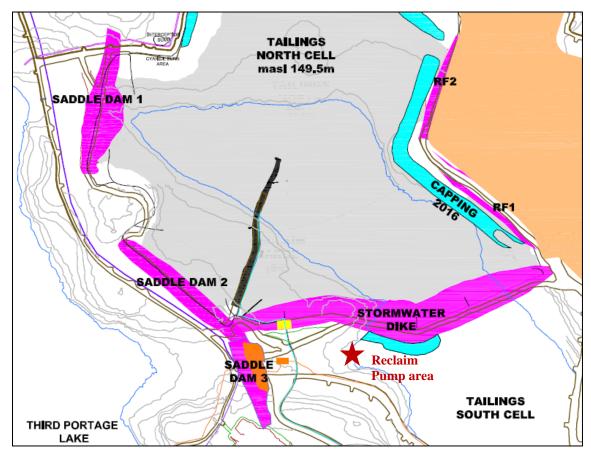


Figure 2: General arrangement of the South Cell TSF and the location of the reclaim pump area

#### **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 7<sup>th</sup> 2017 to November 6<sup>th</sup> 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 7<sup>th</sup> 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 4<sup>th</sup> 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 6<sup>th</sup> 2017 using an excavator. This completed the construction of the South Cell internal structure.

Table 1 Rockfill placement by Date and Material

Dantin etian	Date	Waste			
Destination		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		3,160	
	Sub Total	57,491	24,360	81,851	
Total		57,491	24,360	81,851	

#### **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

Frédérick L.Bolduc, P.Eng Geotechnical Coordinator, Meadowbank Engineering

Reviewed by:

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).

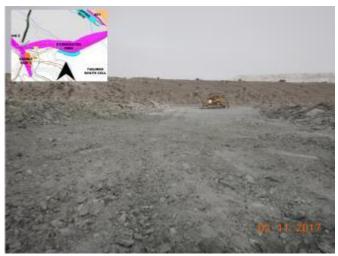


Photo 4: View from the end of the structure on the platform (November 2, 2017).



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).

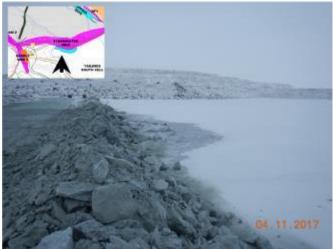


Photo 7: Close up view of the ice sheet collapsing as material placement occurs (November 4, 2017).



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



Photo 9: Close up view of a 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).

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 m<sup>3</sup> (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 m<sup>3</sup> 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.

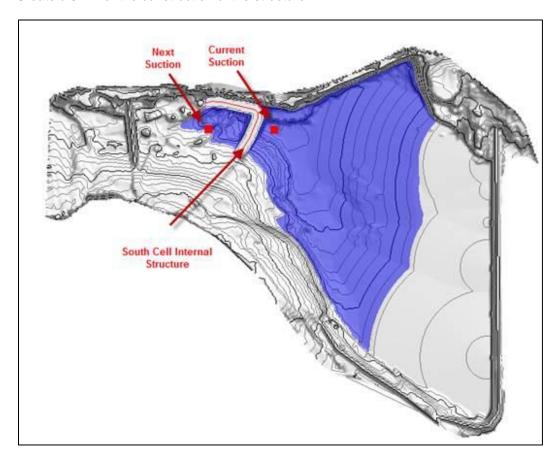
The access for the haul trucks has been considered and is proposed to be through the Stromwater Dike Buttress (Figure 2). This access will require minimal corrective work in the form of material placement above the South Cell water level (included in the volume and construction time estimate). Widening 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.

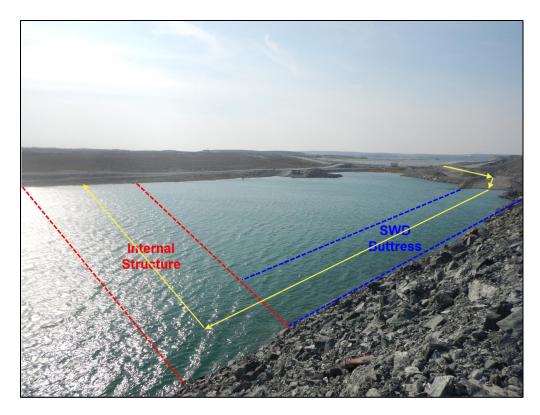


Figure 2: The construction area access, as seen from Stormwater Dike.



**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

















Construction package
October 2017

## SC INTERNAL STRUCTURES



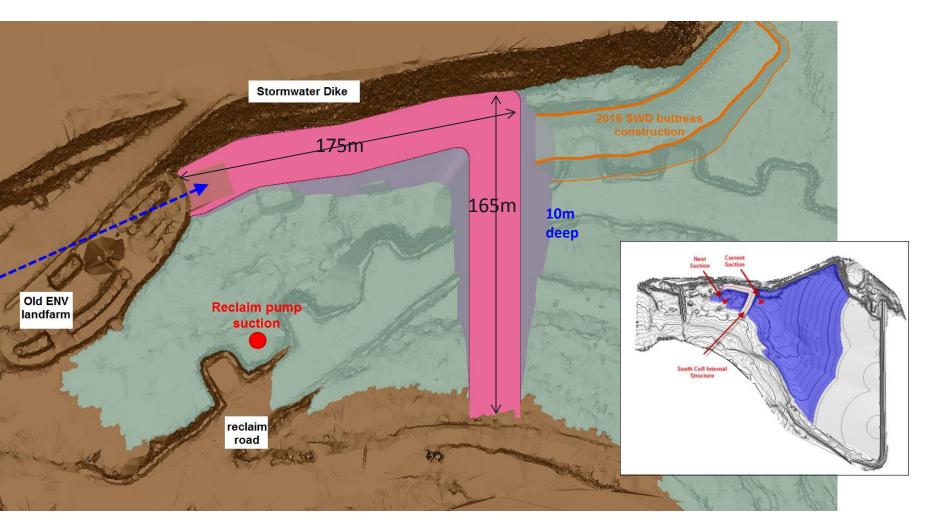
#### **CONTEXT**

- 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)
- BY-product: re-enforcing 2016 SWD buttress by using same access
- No impact on production since 150,000t were budgetted to go to NPAG 135 in October

# **DESIGN OF THE INTERNAL STRUCTURE**



**OVERVIEW** 



<b>EXCAVATION</b>	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)
- 7 End the works by trenching at 2 locations to allow water flowing

## SOUTH CELL INTERNAL STRUCTURES



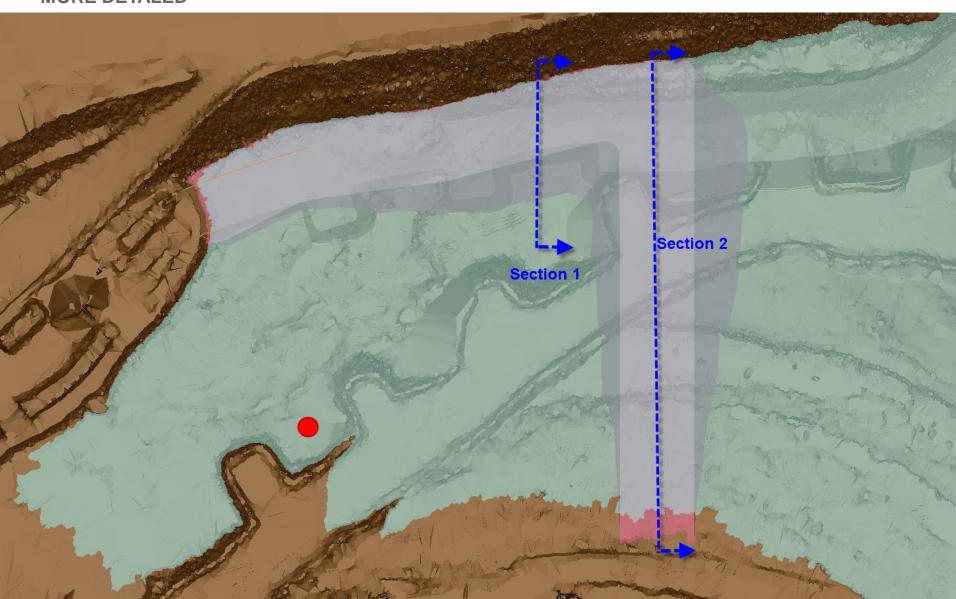
#### **CONSTRUCTION SPECIFICATIONS**

- 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
- → Construction rate: Around 10,000T/day when Day shift only
- Total timeframe: about 2 days for widening actual roads
  - Construction: 14 days

# **DESIGN OF THE INTERNAL STRUCTURE**



MORE DETALED

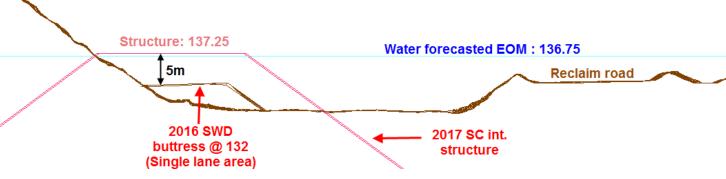


## **DESIGN OF THE INTERNAL STRUCTURE**



**SECTION VIEWS** 

# **Section 1 – Looking East**

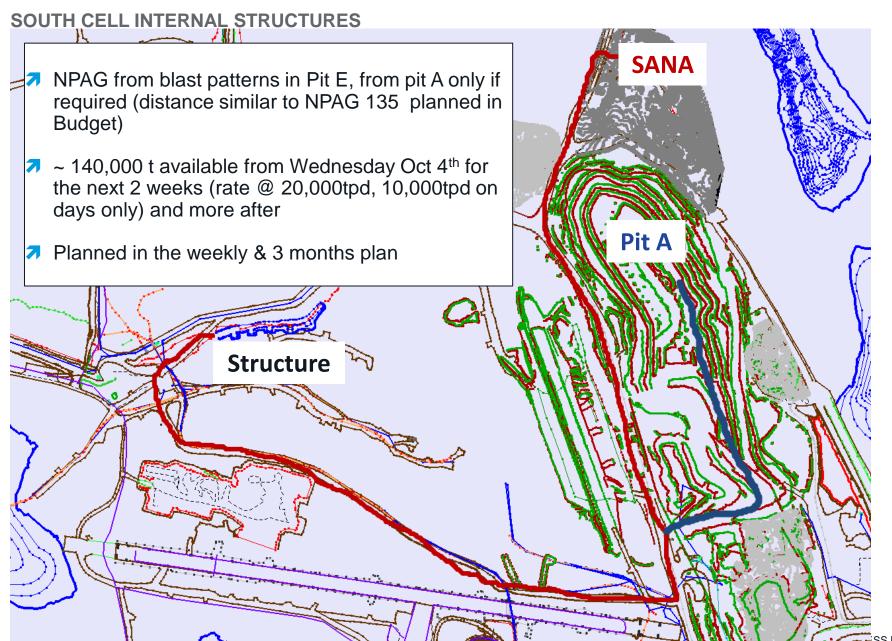


# **Section 2 – Looking East**



## **MATERIAL SPECIFICATIONS & AVAILABILITY**





## 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)

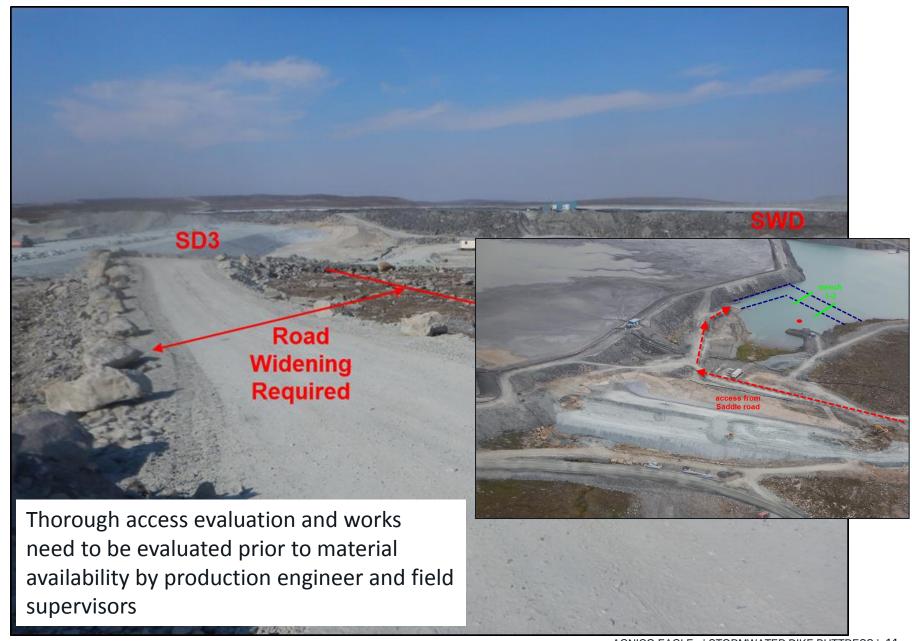
P:\Engineering\08-Health&Safety\03-JHA\GEOTECH JHA

(JHA to be coordonated by Geotech coordinator)

Works execution (mine, survey)

## **ACCESS WORKS**





# **SYNERGY JOB 1: MOVE SOIL FROM OLD TO NEW LANDFARM**



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

# **SPOTTER FORM**



Time:	Supervisor (print)	Supervisor (signature)
SC INTERNAL STRU	CTURE / SWD BUTTRES:	\$
	South Cell Pond area:	SWD Buttress area: □
Construction ongoing	Daily advance (rough):	
	Comment / Observation:	
	Y O NO	
	Comment / Observation:	
Tension crack present?	Location of Tension Crack:	
	Condition of Tension Crack:	
_	Y	
	Comment / Observation:	
Settlement present?	Location of Settlement:	
	Condition of Settlement:	
STORMWATER DIKE	SLOPE (only applicable when	dumping on buttress area)
	Y O NO	
	Comment / Observation:	
Any movement present on the slope? (Loose rocks,	Location:	
bulging, etc.)	Description:	
General Observations:		
-		
		tidernal Structure
REQUIRED ACTIONS	<b>3</b> :	
If tension cracks or settlement are prese	ent on the buttress/structure inform Geotechnical	Supervisor on Channel 10.
If tension cracks or settlement is present	t on the buttress/structure and growing larger ev	vacuate all workers from buttress on Channel 11. Call Geotech Supervisor.
If material failure occurs on the but	tress and a worker is in danger call a Code	e 1 on Channel 11.

P://Engineering/05-Geotechnic/06-Tailings/Management/2 - SOUTH CELL/14- Internal structure Oct/2017/7- Spotter forms/(South Cell Intern Structures Inspection Form.//Isx)Sheet1

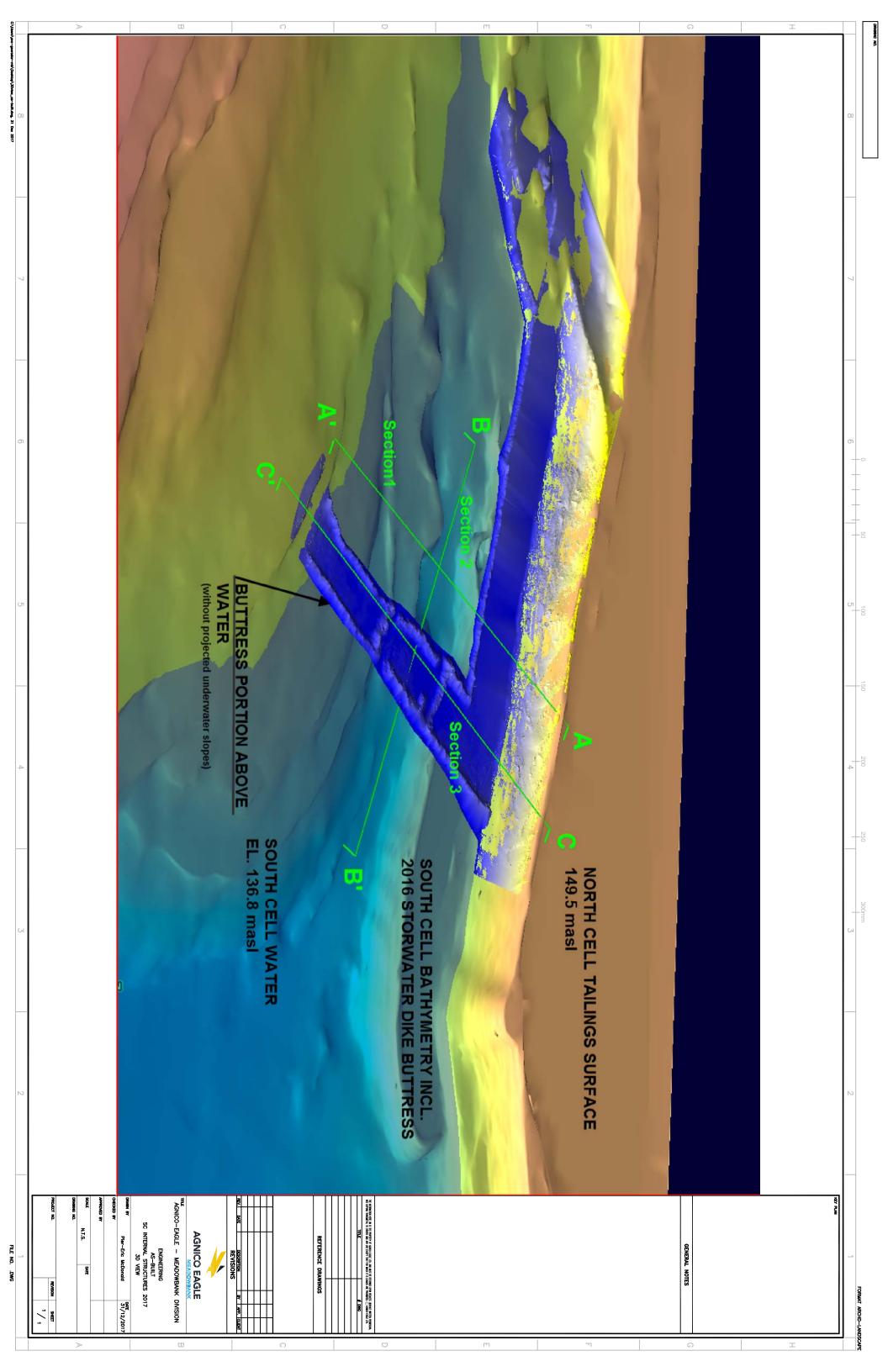
## STORMWATER DIKE BUTTRESS

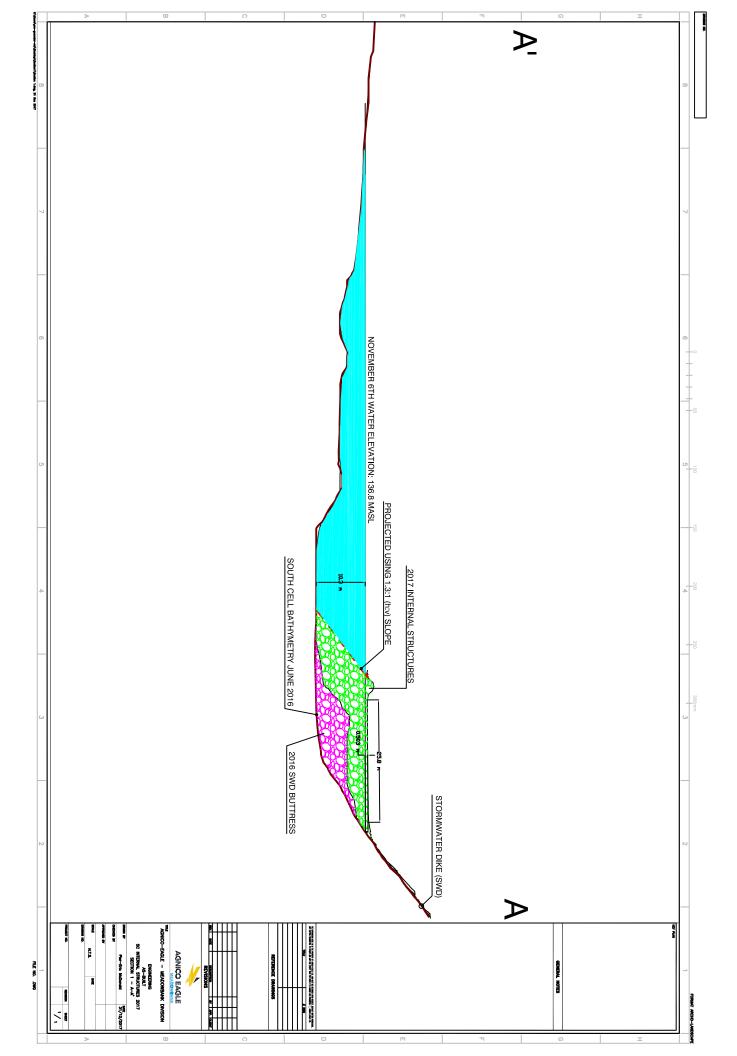


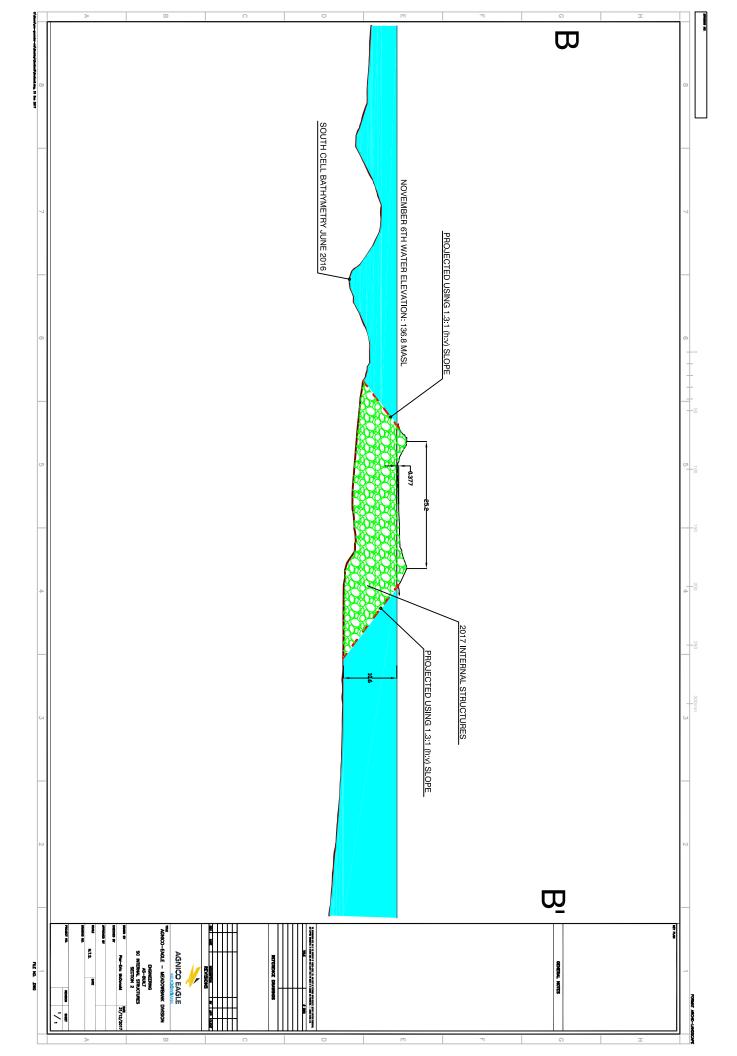
#### **WORK FILES**

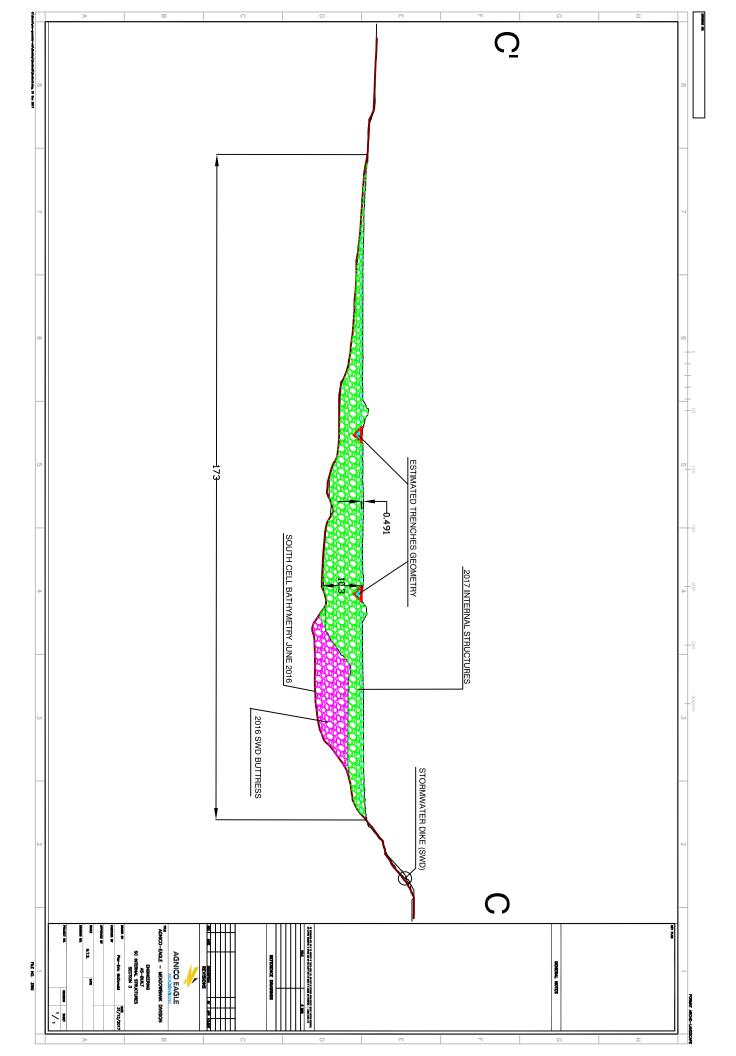
- Work files can be found in P:\Engineering\05-Geotechnic\06-TailingsManagement\2 -SOUTH CELL\14- Internal structure Oct2017
- GEMS surfaces:
  - Internal Structure: ALLtopotr SC / internal\_structures / 2017
  - Initial topo: ENGdraftECtr stormwater / 2016 / topo
  - Water elevation: ALLtopotr Water / 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









APPENDIX E Spotter Inspection Forms

AGNICO EAGLE SC IN	SC INTERNAL STRUCTURES VISUAL INSPECTION FORM AGNICO-EAGLE MINES MEADOWBANK PROJECT				
Date: 08 10 2017	Observer (print)	Maroven Chabi	Observer (signature)	10	#
Time:	Supervisor (print)		Supervisor (signature)		
SC INTERNAL STRUCT	TURE / SWD BUTT	ress .	4		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	15-20 M	SWD Buttress area:		
Tension crack present?	Y N Y Comment / Observation: Location of Tension Crac				-
	Condition of Tension Cra	ck:			-
Settlement present?	Y N N Comment / Observation: Location of Settlement:				_
	Condition of Settlement:				
STORMWATER DIKE S	LOPE (only applicable	when dumping on bu	(tress area)		
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N Comment / Observation: Location:  Description:				-
General Observations:  The starts to be he to break the ice  REQUIRED ACTIONS:  If tension cracks or settlement are present on	n the buttress/structure inform Geo		annel 10.		
If tension cracks or settlement is present on the firm tension cracks or settlement is present on the firm tension failure occurs on the buttress are	the buttress/structure and growing	larger evacuate all workers f		. Call Geotech Supervis	sor.

ite: 09-10-17	Observer (print)	Ligors He Nicoll	Observer (signature)	Louis Mysel
me: <u>/8:co</u>	Supervisor (print)	10000	Supervisor (signature)	
C INTERNAL STRUC	TURE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	4 motes	SWD Buttress area:	
Tension crack present?	Y N W Comment / Observation: Location of Tension Cracl	k:		
	Condition of Tension Crac	ck:		
Settlement present?	Y N W Comment / Observation: Location of Settlement: Condition of Settlement:			
TORMWATER DIKE	SLOPE (only applicable	when dumping on bu	ittress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N N Comment / Observation: Location:  Description:			
Seneral Observations:				
EQUIRED ACTIONS:			tham street	

C:\Users\marouen.ghabi\AppData\LocalMicrosoft\Windows\Temporary Internet Files\Content.Outlook\3A6XE8GM\South Cell Intern Structures Inspection Form.xisxjSheet1

AGNICO EAGLE SC I	INTERNAL STRUCTUI AGNICO-EAGLE M	RES VISUAL INS INES MEADOWBANK PRO.		
Date: 10 - 10 - 17	Observer (print)	Locis Me Nadl	Observer (signature)	Now of Note
Time:	Supervisor (print)	·	Supervisor (signature)	
SC INTERNAL STRUC	TURE / SWD BUTT	RESS		
Construction ongoing	Daily advance (rough): Comment / Observation:	15 meter	SWD Buttress area:	OF .
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Tension crack present?	Comment / Observation: Location of Tension Crack	.* ie		
	Condition of Tension Crac	k:		
i:	YO NE			
9 %	Comment / Observation:			
Settlement present?	Location of Settlement:			
	Condition of Settlement:			
STORMWATER DIKE	SLOPE (only applicable )	when dumping on bu	ittress area)	
	Y D N D			
Any movement present on the	Comment / Observation:			
slope? (Loose rocks, bulging,	Location:			
etc.)	Description:			
General Observations:			100	
GENELA GIARITATIONS				
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		- 1	Stricture .	
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				<b>全国的</b>
			Section 1	
EQUIRED ACTIONS:				
ension cracks or settlement are present o	on the buttress/structure inform Geote	and the second s		
ension cracks or settlement is present on			from buttress on Channel 11.	Call Geotech Supervisor.
material failure occurs on the buttress	and a worker is in danger call a Co	ode 1 on Channel 11.		2,111

AGNICO EAGLE SC IN	NTERNAL STRUCTUR AGNICO-EAGLE MIN	RES VISUAL IN		
Date: 11-10-17	Observer (print)	JOHINKE	Observer (signature)	CO.
Time: <u>6.100</u>	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUCT	TURE / SWD BUTTI	RESS	web.com.	
Construction ongoing	South Cell Pond area: [Pond ar		SWD Buttress area:	Carlo
	Comment / Observation:			
Tension crack present?	Comment / Observation: Location of Tension Crack;	,		
	Condition of Tension Crack	<b>C</b> * =		
	Y N N Comment / Observation:			
Settlement present?	Location of Settlement:	7_7=1112=200		
	Condition of Settlement:			
STORMWATER DIKE S	LOPE (only applicable w	then dumping on bu	uttress areal	
Any movement present on the slope? (Loose rocks, bulging,	Y N O N Comment / Observation: Location:			
etc.)	Description:			
General Observations: FUERYTHIN 6	IS SAFE			
			MA	
			Discount Stricture	
REQUIRED ACTIONS:				
If tension cracks or settlement are present on If tension cracks or settlement is present on t				Call Geotech Supervisor.
If material failure occurs on the buttress a			1 my	

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AGNICO EAGLE SC IN	NTERNAL STRUCTU AGNICO-EAGLE N	JRES VISUAL MINES MEADOWBANK I		
Date: 60+11 2017	Observer (print)	Vincent Dura	wleendbserver (signature)	William
Time: 10:00 / 16:36	Supervisor (print)		Supervisor (signature)	
/				
SC INTERNAL STRUCT	The state of the s	RESS		
Construction and in	South Cell Pond area:	Ø.	SWD Buttress area:	Ø
Construction ongoing	Daily advance (rough): Comment / Observation:	15 M	_	
	Y N N	,		
	Comment / Observation:			
Tension crack present?	Location of Tension Crack	k:		
	Condition of Tension Crac	 ck:		
		311.		
	Y D N 🔼			
	Comment / Observation: Location of Settlement:			
Settlement present?	LUCABUTT OF Gettlefflert.			
	Condition of Settlement:		·	
STODMWATED DIVE S	I ODE			
STORMWATER DIKE S	Y □ N M	when dumping or	) buttress area)	
	Comment / Observation:	The Str	se is made	of loose Rochs.
Any movement present on the slope? (Loose rocks, bulging,	Location:	1		
etc.)	75			
	Description:			
General Observations:				
			The state of	
			Structure Structure	
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			A NO	South But Co.
REQUIRED ACTIONS:				
If tension cracks or settlement are present on				
If tension cracks or settlement is present on the				. Call Geotech Supervisor.
If material failure occurs on the buttress ar	ad a worker is in danger call a C	loge 1 on Channel 11.	,	

AGNICO EAGLE SC INTERNAL STRUCTURES VISUAL INSPECTION FORM AGNICO-EAGLE MINES MEADOWBANK PROJECT					
Date: 12-10-17	Observer (print)	DOWNICK	Observer (signature)	750	
Time: 7:00	Supervisor (print)		Supervisor (signature)	8-3-10-1	10 - 10 - 10 - 10 - 10 - 10 - 10 -
P					
SC INTERNAL STRUC	TURE / SWD BUTT	RESS			
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	15 M	SWD Buttress area:		
Tension crack present?	Y N P Comment / Observation: Location of Tension Crack	:			_
	Condition of Tension Crac	k:			_
Settlement present?	Y N P Comment / Observation: Location of Settlement:				_
	Condition of Settlement:				_
STORMWATER DIKE S	LOPE (only applicable )	when dumping on bu	rttress area)		
Any movement present on the slope? (Loose rocks, bulging,	Y N D Comment / Observation: Location:				_
etc.)	Description:				-3
General Observations:  EUBRY THING I	s safe				
			A formal Direction		4. +
REQUIRED ACTIONS:					
If tension cracks or settlement are present or					
If tension cracks or settlement is present on If material failure occurs on the buttress a			from buttress on Channel 11.	Call Geotech Super	visor.

AGNICO EAGLE	INTERNAL STRUCTUF AGNICO-EAGLE MIR	RES VISUAL IN INES MEADOWBANK PRO		
Date: 13-10-17	Observer (print)	100 wick	Observer (signature)	
Time: 7:00	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUC	TURE / SWD BUTTI	RESS		
Construction ongoing	Daily advance (rough): Comment / Observation:	<u> 5 m</u>	SWD Buttress area:	DZ .
Tension crack present?	Y N N Comment / Observation: Location of Tension Crack:			
	Condition of Tension Crack	t:		
Settlement present?	Y N N Comment / Observation: Location of Settlement:  Condition of Settlement:			
STORMWATER DIKE S	11220	rhen dumping on bu	uttress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N P Comment / Observation: Location:			
etc.,	Description:			
General Observations:  EUGRYTHIN b	1.S SAFE			
		art as you	a to mai 20 rivage	
	-			
REQUIRED ACTIONS:			Attachment and the	
If tension cracks or settlement are present o If tension cracks or settlement is present on		rger evacuate all workers		. Call Geotech Supervisor.

AGNICO EAGLE SC IN	NTERNAL STRUCTURES VISUAL AGNICO-EAGLE MINES MEADOWBANK F		
Date: 13 oct 2017	Observer (print) Vincent Aurant	(signature)	unt he
Time: 14:30	Supervisor (print)	Supervisor (signature)	
SC INTERNAL STRUCT	TURE / SWD BUTTRESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	SWD Buttress area:	Ŗ
Tension crack present?	Y N X 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 S	LOPE (only applicable when dumping on	n buttress area)	24-m221m-1-8000
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N M Comment / Observation: Location: / O Se TO CVS on Description:	1	
General Observations:			
Not a lot oft	ruches in the morning.		
the ser area co	un explain the short		
anound ann	the law of moving.		
		b farmal Signorum	
REQUIRED ACTIONS:			
	the buttress/structure inform Geotechnical Supervisor on ne buttress/structure and growing larger evacuate all work		Call Geotech Supervisor.
	nd a worker is in danger call a Code 1 on Channel 11.		

AGNICO EAGLE SC IN	TERNAL STRUCTU AGNICO-EAGLE N	RES VISUAL IN		
Date: October 13 2017	Observer (print)	Vinerat Drowle	Observer (signature)	led hu
Time: 16:00	Supervisor (print)		Supervisor (signature)	
SC INTERNAL STRUCT	URE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	20m	SWD Buttress area:	⊠ .
Tension crack present?	Y N N Comment / Observation: Location of Tension Crack	¢:		
	Condition of Tension Crac	ck:		
Settlement present?	Y N R Comment / Observation: Location of Settlement:			
	Condition of Settlement:			
STORMWATER DIKE SI		when dumping on bu	ittress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location: The S(0) Description:	se is made	of loose Roul	hs.
General Observations:				
The structure is if the floor is go on grade.	'n good condit	ways	in ternal Side ture	
REQUIRED ACTIONS:				
If tension cracks or settlement are present on if If tension cracks or settlement is present on the If material failure occurs on the buttress an	e buttress/structure and growing I	arger evacuate all workers		Call Geotech Supervisor.

AGNICO EAGLE SC IN	NTERNAL STRUCTUI AGNICO-EAGLE M	IRES VISUAL IN		
Date: 14-10-17	Observer (print)	Dominick	Observer (signature)	8
Time: 7:00	Supervisor (print)	STORES STORES	Supervisor (signature)	
SC INTERNAL STRUCT	TURE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area: Daily advance (rough): Comment / Observation:	IOM	SWD Buttress area:	
Tension crack present?	Y N D Comment / Observation: Location of Tension Crack	С		
	Condition of Tension Crac	;k:		
Settlement present?	Y N D  Comment / Observation: Location of Settlement:			
	Condition of Settlement:			
STORMWATER DIKE S	LOPE (only applicable)	when dumping on bu	uttress area)	
Any movement present on the slope? (Loose rocks, bulging,	Y N Comment / Observation: Location:			
etc.)	Description:			
General Observations:  EUBRYTHING 1.	S SAFE			
		The state of the s	- Ademai Stricture	
REQUIRED ACTIONS:				
If tension cracks or settlement are present on If tension cracks or settlement is present on the		larger evacuate all workers		Call Geotech Supervisor.

AGNICO EAGLE SC I	INTERNAL STRUCTURES VISUAL INSPECTION FORM AGNICO-EAGLE MINES MEADOWBANK PROJECT	
Date: 14/10/ 2017 Time: 10 100 Am	Observer (print)  Supervisor (print)  Supervisor (signature)	-
SC INTERNAL STRUC	TURE / SWD BUTTRESS	
Construction ongoing	South Cell Pond area: SWD Buttress area: SWD Buttress area: Comment / Observation:	
Tension crack present?	Y N Comment / Observation:  Location of Tension Crack:	
	Condition of Tension Crack:	
Settlement present?	Y N De Comment / Observation: Location of Settlement:	
	Condition of Settlement:	
STORMWATER DIKE	SLOPE (only applicable when dumping on buttress area)	339
Any movement present on the slope? (Loose rocks, bulging,	Y D N S Comment / Observation: Location:	
etc.)	Description:	
General Observations:	m grade.	
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total touncy	26.883 since projet	The state of the s
REQUIRED ACTIONS:  If tension cracks or settlement are present or	on the buttress/structure inform Geotechnical Supervisor on Channel 10.	100
	the buttress/structure and growing larger evacuate all workers from buttress on Channel 11. Call Geotech Supervisor.	

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

AGNICO EAGLE SC II	NTERNAL STRUCTU AGNICO-EAGLE M	IRES VISUAL IN MINES MEADOWBANK PRO			
Date: 15-10-17	Observer (print)	DOMITURE	Observer (signature)	CS	
Time: 7:00	Supervisor (print)		Supervisor (signature)		L
	ouput tions (pility		Supervisor (signature)		
SC INTERNAL STRUC	TURE / SWD BUTT	RESS			
	South Cell Pond area:		SWD Buttress area:	Ø	-
Construction ongoing	Daily advance (rough):	25M			
	Comment / Observation:		5.05.09	S-,	
	Y O N O				
	Comment / Observation:				
T!	Location of Tension Crack	к:			_
Tension crack present?		•			
	Condition of Tension Crac				-
	/				
	Y D N D				
	Comment / Observation:				
	Location of Settlement:				_
Settlement present?	LOCATOR OF COMMITTEE				
	Condition of Settlement:				
	Condition of Conditions,				
STORMWATER DIKE S	SLOPE (only applicable)	when dumping on be	uttress area)		1 10
**************************************	Y D N D				
	Comment / Observation:				5
Any movement present on the	Location:				=
slope? (Loose rocks, bulging,					
etc.)	Description:				•
	S				
General Observations:					
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EUBRYTHING	15 >4-25				10 3
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				Name of Street, or other Designation of the last	-7
				To the manual of the	
		4	No.		1
		- 7	Structure	100	ho
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	3/23/11/	70.		100	03
		7			-
			ALCOHOLD STATE	And the second	T Can
<b>REQUIRED ACTIONS:</b>					
If tension cracks or settlement are present or	o the buttress/structure inform Geof	iechnical Supervisor on Ch	namel 10		
If tension cracks or settlement is present on				Call Gastach Supervise	
if material failure occurs on the buttress s			FIGHT COLLEGE OF CHELLING, F. C.	Call Geolecii Gupei ili	OI.

AGNICO EAGLE SC IN	TERNAL STRUCTURES VISUAL IN AGNICO-EAGLE MINES MEADOWBANK PRO	(2)	
Date: 15/10/2017	Observer (print)	Observer (signature)	
Time: 17 30	Supervisor (print)	Supervisor (signature)	6
W-00.000 (000 - K.F.)		Capet 41901 (Signature)	
SC INTERNAL STRUCT	URE / SWD BUTTRESS		
	South Cell Pond area:	SWD Buttress area:	7
Construction ongoing	Daily advance (rough):/S -> 0	_	
	Comment / Observation:		
	Y D N Ø		
	Comment / Observation:		1
Tension crack present?	Location of Tension Crack:		
	Condition of Tension Crack:		
	Y D N S		-
	Comment / Observation:		
	Location of Settlement:		
Settlement present?	Location of Settlement,		
	Condition of Settlement:	70	
ATABLEMATED DIVE OF			4
STORMWAIER DIKE SI	OPE (only applicable when dumping on b	outtress area)	4
	Y D N C		
Any movement present on the	Comment / Observation:		
slope? (Loose rocks, bulging,	Location:		
etc.)	Propodettess		
	Description:		-
General Observations:			1
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the Interval	structure ( Forner).		
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33 060T +ot	Tal	istemal Strusture	
222	17	the state of the s	
		The Market State of the State o	
REQUIRED ACTIONS:			1
	he buttress/structure inform Geotechnical Supervisor on Cl		1
If tension cracks or settlement is present on the	e buttress/structure and growing larger evacuate all worker	ers from buttress on Channel 11, Call Geotech Supervisor.	

AGNICO EAGLE	NTERNAL STRUCTURES VISUAL AGNICO-EAGLE MINES MEADOWBANK		
Date: 21-10-2017	Observer (print) Mickael El-Hachem	Observer (signature)	
Time: 07:00	Supervisor (print)	Supervisor (signature)	
SC INTERNAL STRUCT	TURE / SWD BUTTRESS		
Construction ongoing	South Cell Pond area:  Daily advance (rough); Comment / Observation:	SWD Buttress area:	A
Tension crack present?	Y N Comment / Observation: Location of Tension Crack:		
	Condition of Tension Crack:		
Settlement present?	Y N Comment / Observation; Location of Settlement:		- 121
	Condition of Settlement:		_
STORMWATER DIKE S	SLOPE (only applicable when dumping or	n buttress area)	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Y N Comment / Observation: Location: Description:		_
	Description.		
Material gradually also	Advised operator to maintain		N. N.
THE PARTY OF THE P	the thouse they would bear	- Charles	1
The sage		'u.ternal	1
		Birthours	16
REQUIRED ACTIONS:			
If tension cracks or settlement are present or	n the buttress/structure inform Gentechnical Supervisor of	n Channel 10	
•	the buttress/structure and growing larger evacuate all wor		

AGNICO EAGLE SC II		RES VISUAL INSPECTION FORM	
Date: 32-10-17 Time: 7:30 Cm	Observer (print) Supervisor (print)	Church Cobserver (signature)  Supervisor (signature)	Chores hip
SC INTERNAL STRUCT			
30 HALEVIATE STUDO			
Construction ongoing	Daily advance (rough):  Comment / Observation:	SWD Buttress area:	<b>⊠</b>
Tension crack present?	Y N N Comment / Observation: Location of Tension Crack:		_
	Condition of Tension Crack:	: 94	
Settlement present?	Y N N Comment / Observation: Location of Settlement:		
	Condition of Settlement:		
STORMWATER DIKE S	I OPE (only applicable wi	hen dumning on huttress area)	
Any movement present on the slope? (Loose rocks, bulging,	Y N N Comment / Observation:	THE CHILDRICK OF STRANGE PORT	
etc.)	Description:		Lawrence
General Observations:	goxl	ja Sarnal Sartustus	
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 and growing larg	ger evacuate all workers from buttress on Channel 11.	Call Geotech Supervisor.

ate: OCT 34 2017	Observer (print)  Supervisor (print)		Observer (signature) Supervisor (signature)	Ano Knok
C INTERNAL STRUC	TURE / SWD BUTTRES	S		
Construction ongoing	South Cell Pond area:  Daily advance (rough): Comment / Observation:		SWD Buttress area:	\$\frac{\pi}{2}
Tension crack present?	Y N N Comment / Observation:  Location of Tension Crack:			100000 1000000 1000000 100000000000000
	Condition of Tension Crack:			
Settlement present?	Y N N Comment / Observation: Location of Settlement:			
	Condition of Settlement:			
TORMWATER DIKE	SLOPE (only applicable when d	lumping on butt	ress area)	
Any movement present on the slope? (Loose rocks, bulging,	Y N N Comment / Observation:			
etc.)	Description:			
General Observations:			2	
	4			The state of the s
			Structure	196
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		100	The second second	AND THE PERSON OF THE PERSON

	C INTERNAL STRUCTURES VISUAL INSPECTION FORM AGNICO-EAGLE MINES MEADOWBANK PROJECT	e
Date: 25-10-17	Observer (print)	1
ime: 10 h 15	Supervise (signature)	
	Supervisor (signature)	. 1
C INTERNAL STRU	JCTURE / SWD BUTTRESS	
	South Call D	
Construction ongoing	South Cell Pond area: SWD Buttress area:	
	Comment / Observation:	
	Y D N Y	
	Comment / Observation:	
Tension crack present?	Location of Tension Crack:	
and probeint:		
	Condition of Tension Crack:	
	YON	
	Comment / Observation:	
Settlement present?	Location of Settlement:	e
	Condition of Settlement:	
ORMWATER DIKE	20012	
THE BIRE	SLOPE (only applicable when dumping on buttress area)	
ny movement present on the	Comment / Observation:	
lope? (Loose rocks, bulging, etc.)	Location,	
G(C.)	Description:	
	Description,	
neral Observations:		
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	II,lemat	1
	Structure	T.
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QUIRED ACTIONS:		
QUIRED ACTIONS: on cracks or settlement are present on	the buttress/structure inform Geolecholical Surv	
on cracks or settlement are present on on cracks or settlement is present on the	n the buttress/structure Inform Geolechnical Supervisor on Channel 10.  the buttress/structure and growing larger evacuate all workers from buttress on Channel 11. Call Geolech Supervisor.  and a worker is in danger call a Code 1 on Channel 11.	

Date: 6:1 17/2 -		INES MEADOWBANK PRO.	JECT	The second
Date: 6427/267	Observer (print)	Peter Rubstant	Observer (signature)	All do un
Time: 09145 au	Supervisor (print)	-	Supervisor (signature)	ringcella
			Supervisor (signature)	2000
SC INTERNAL STRU	CTURE / SWD BUTT	RESS		
Construction ongoing	South Cell Pond area:		SWD Buttress area:	
o mod detail ongoing	Daily advance (rough):	2015.00000000000000000000000000000000000	OTTO Dulliess area.	
	Comment / Observation			
	Y D N D			
_	Comment / Observation:			
Tension crack present?	Location of Tension Crack:	0 - 12 - 2 16 - 1		
	Condition of Tension Crack			
	YOND			
	Comment / Observation:			The state of the s
Settlement present?	Location of Settlement:			
occoment present?	cocation of Settlement:			
	Condition of Settlement:			
TORMWATER DIKE	SLOPE (only applicable wi	have also a to		
	Y D N D	ien dumping on butti	ress area)	
Any movement present on the	Comment / Observation:			
slope? (Loose rocks, bulging,	Location:			
etc.)				
	Description:			
eneral Observations:				
eteral Diservations:				-
72				
4.5		6/100	DESCRIPTION AND ADDRESS OF	Manager and the second
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		10.4		
QUIRED ACTIONS:		2.73		
		ical Supervisor on Channel		And the second s

P \(\text{Engineering\(\text{05-Geolechnic\\\08-Tailings\)Management\(\text{2} - \text{SOUTH CELL\\\14- Internal structure Oct2017\\7- Spotter forms\\\South Cell Intern Structures inspection Form.xisx\\\Sheet1\)

	C INTERNAL STRUCT	MINES MEADO	VBANK PROJ	PECTION FORM	( e
Date: 28/10/17	Observer (print) Supervisor (print)	ALECIC SEGNO	PARD	Observer (signature) Supervisor (signature)	Allega
SC INTERNAL STRU	CTURE / SWD BUT	TDEGG			Old I
	South Cell Pond area:	KESS K		0000	
Construction ongoing	Daily advance (rough):	100 1000		SWD Buttress area:	
	Comment / Observation:				
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	Comment / Observation:				
Tension crack present?	Location of Tension Crac	k:			
	Condition of Tension Crac	ck-			
	YO N 🔻				
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Settlement present?	Location of Settlement:				
octionent present?	cocason of Settlement:				
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TORMWATER DIKE	SLOPE (only applicable)	release to the	Chronic Rest of		
	Y N N	vnen dumpir	g on buttr	ress area)	
ny movement present on the	Comment / Observation:				
lope? (Loose rocks, bulging,	Location:				
etc.)					
•	Description:				
eneral Observations:					
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QUIRED ACTIONS: on cracks or settlement are present on on cracks or settlement is present on the					

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

Date: 29/10/17	Observer (print)	Lime Quirange bserver (signature)
Time:	Supervisor (print)	Jaco Secosapervisor (signature)
SC INTERNAL STRU	CTURE / SWD BUTT	TRESS.
Construction ongoing	South Cell Pond area: Daily advance (rough):	SWD Buttress area:
	Comment / Observation:	
	Comment / Observation:	
Tension crack present?	Location of Tension Crack	C:
	Condition of Tension Crac	k;
	YOND	
	Comment / Observation:	
Settlement present?	Location of Settlement:	
	Condition of Settlement:	
TODANA		
TORIVIVATER DIKE	SLOPE <u>(only applicable</u> w	vhen dumping on buttress area)
	V D	
		an con
Any movement present on the	Comment / Observation:	
Any movement present on the slope? (Loose rocks, bulging, etc.)		
Any movement present on the slope? (Loose rocks, bulging,	Comment / Observation:	
Any movement present on the slope? (Loose rocks, bulging,	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	Tive.
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	R.GOTABI SPLICEURE
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	Hidopai Sire
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	Hidopai Sire
Any movement present on the slope? (Loose rocks, bulging, etc.)	Comment / Observation: Location:	Hidopai Sire
Any movement present on the slope? (Loose rocks, bulging, etc.)  eneral Observations:	Comment / Observation: Location:  Description:	MANAGE CHINESE CHINESE
Any movement present on the slope? (Loose rocks, bulging, etc.)  eneral Observations:  QUIRED ACTIONS:  ion cracks or settlement are present on	Comment / Observation: Location:  Description:	MANAGE CHINESE CHINESE

(3.1	INTERNAL STRUCTU	JRES VISUAL IN MINES MEADOWBANK PRO.	SPECTION FORM	
Date: 00 29,17	Observer (print)	Dalu Rach	Observer (signature)	heno
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ate: Of 28 2017	Observer (print)	MES MEADOWBANK PRO.		
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Time: 47:10	Supervisor (print)		Supervisor (signature)	
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	C INTERNAL STRUCTURES VISUAL INSPECTION FORM AGNICO-EAGLE MINES MEADOWBANK PROJECT
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Time: 10:274m	Supervisor (print)
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If material failure occurs on the buttress and a worker is in danger call a Code 1 on Channel 11.

If tension cracks or settlement is present on the buttress/structure and growing larger evacuate all workers from buttress on Channel 11. Call Geotech Supervisor.

AGNICO EAGLE		E MINES MEADOWBANK		
Date: Nov 3 July	Observer (print)	Vincent luna	Observer (signature)	when
Time:	Supervisor (print)	C. S. S. C. Cherton St. St. St. St.	Supervisor (signature)	
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Time:	Supervisor (print)	Supervisor (signature)	
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	AGNICO-EAGLE MINES MEAD	DOWBANK PROJECT
Date: 06-11-2017	Observer (print)	Observer (signature)
Fime: 8:00		FORCE Supervisor (signature)
SC INTERNAL		Supervisor (signature)
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APPENDIX F Signed JHA



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

FACIL	ITY / SITE:	Meadowbank DATE:		DATE:	October 4 <sup>th</sup> 2017
DEPA	RTMENT:	Engineerin	g/Mine	REVIEW DATE(S):	-
JOB B	JOB BEING ANALYSED: South Cell		internal structure	TEAM LEADER:	Walter Standing / Geotech team
					o optimize the tailings deposition. This
structu	re will be built by dumping roc	kfill in the wa	ater of the South Cell of	over the SWD buttress and or	n a foundation of till and lakebed sediment
Step Describe Job Steps			Hazards/Po	otential Incidents	Risk Control Methods Required
					Only 100t haul trucks to be used with

Step	Describe Job Steps	Hazards/Potential Incidents	Risk Control Methods Required
1	Mine trucks (100t only) will haul rockfill from the pit to the area passing by the access adjacent to the airstrip (Saddle Road).	Haulage on access adjacent to airstrip.  Potential traffic on the access adjacent to airstrip.  Coactivity with the Dikes construction haul trucks around the Saddle 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.



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

			Communication will be sent to Mill, E&I, Mine and Sana before the beginning of the work to inform them of the task.  Work will only be done during the day shift.
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.	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.



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

			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.



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

	1	T	1
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

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	xcavation									
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Emergency Information :	Emergency Information: CODE 1 CODE 1 - ADVISE SUPERVISOR IN CHARGE OF WORK (MINE SUPERVISOR / DISPATCH)									
Evacuation Route:	EXIT TOWARI	OS PORTAGE WTP (TOWARDS AWPR)								
Evacuation Signal:										
Assembly Point:	MINE DISPAT	CH AREA								
Location of Eyewash/shower:	CODE 4 CODE	TA CODE A CUIDEDVICOD OFFICE DADIO CUIANNEL A	12							
Emergency phone number: First aid location:	CODE 1 CODE		13							
i iist alu location.	CONTACTOO	LIVIOUN								



## **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

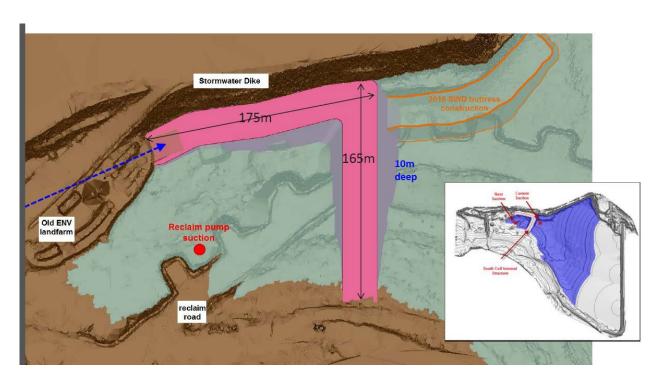
Note: LOTO acronym for Lock out tag out

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



## **South Cell Internal Structure Construction**

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





# **South Cell Internal Structure Construction**

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





AGNICO EAGLE

# 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

Note: LOTO acronym for Lock out tag out

		- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	the state of the s	the floor	Soon	with sty,	Her Someth	Frake Con			C		7
	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
יט דיטט טען ועץ טען	Husache Lanatha	Maroven Ghabi	Exic Cate	Kevin Champagne	Jason Gonds -	Walk Shows	DENIS GUSSELIN	34				MARKUS UCHTENHAGEN	
ייטוני. בייטור מייטוליים ומייטולים אייטוני.	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