Photograph SD3-336: From Sta. 20+755/-48 m, looking S. Placement of a fourth 0.5 m thick lifts of fine filter, coarse filter and fine rockfill on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+770 to 20+800 m.

Photograph SD3-337: From Sta. 20+760/-37 m, looking S. Compaction of the fourth 0.5 m thick lifts of fine filter, coarse filter and fine rockfill on the upstream slope of the upstream toe liner tie-in with a 10 tonne smooth-drum compactor with vibrations (4 passes) from Sta. 20+770 to 20+800 m.

Photograph SD3-338: From Sta. 20+610/-43 m, looking NW. Placement of a first 0.5 m thick lift of compacted sieved till over the LLDPE geomembrane on the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m.

QA DAILY REPORT

DATE July 16th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Samuel Barbeau **EMAIL sbarbeau@golder.com**

QA DAILY REPORT FOR JULY 15TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The depressions in the surface between SD2 and SD3 are being filled with low quality till up to El. 145 m to limit water pounding and runoff in this area during freshet.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Golder Associés Ltée
7250, rue du Mile End, 3e étage Montréal (Québec) H2R 3A4 Canada T: +1 514 383 0990 +1 514 383 5332

Table 1: QA Observations for Saddle Dam 3

Activity or Area	Comments
Upstream toe liner tie-in – north abutment	■ Compaction of the first 0.5 m thick lift of compacted sieved till over the LLDPE geomembrane on the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes), only where no LLDPE geomembrane lies underneath the layer. The material was tested with PNG. ■ Placement of a second 0.5 m thick lift of compacted sieved till over the LLDPE geomembrane on the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes), only where the LLDPE geomembrane lies at least 0.5 m underneath the layer. The material was tested with PNG. ■ Placement of a first 0.5 m thick lift of fine filter on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes). ■ Placement of a first 0.5 m thick lift of coarse filter on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes). ■ Placement of a first 0.5 m thick lift of fine rockfill on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes). ■ Placement of a third 0.5 m thick lift of compacted sieved till over the LLDPE geomembrane on the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. The lift was not compacted yet. ■ Placement of a second 0.5 m thick lift of fine filter on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m. ■ Placement of a second 0.5 m thick lift of coarse filter on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m.

Activity or Area	Comments
	■ Placement of a second 0.5 m thick lift of fine rockfill on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m.
Upstream toe liner tie-in – south abutment	■ Compaction of the third 0.5 m thick lift of compacted sieved till on the upstream toe liner tie-in with an excavator from Sta. 20+760 m to 20+820 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes), only where no LLDPE geomembrane lies underneath the layer. The material was tested with PNG.

Note : In the north abutment, the elevation of the first lift of fine and coarse filters and fine rockfill corresponds to the elevation of the second lift of sieved till, as the first lift of compacted sieved till was placed in a depression in the roc.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and

Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
FF-418-2018	2018-07-14	2018-07-15	Fine Filter	North Cell Internal Structure, Sta. 20+818/-33.6 m, El. 145 m	Gradation	Compliant
					Water content	3.49%
#51 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+597.3/-47.8 m, El. 143.8 m	Dry density	2141
					Water content (PNG)	8.3%
#52 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+597.1/-49.9 m, El. 143.7 m	Dry density	2115
					Water content (PNG)	8.5%

#53 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+792.1/-34.2 m, El. 144.7 m	Dry density	2165
					Water content (PNG)	7.2%
#54 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+781.1/-33.6 m, El. 144.4 m	Dry density	2157
					Water content (PNG)	6.0%
#55 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+596.0/-46.5 m El. 144.4 m	Dry density	2113
					Water content (PNG)	8.6%
#56 (PNG)	2018-07-15	2018-07-15	Compacted sieved till	SD3 (in place) 20+602.2/-50.0 m El. 144 m	Dry density	2140
					Water content (PNG)	7.0%

Table 3: Samples taken by the QA

Sample ID	**Date Sampled**	**Date Tested**	**Fill Material Type**	**Location (Station/Offset Elevation)**	**Test**	**Testing Result**

6.0 PHOTOGRAPHS

Photograph SD3-339: From Sta. 20+600/-29 m, looking E. Compaction of a first 0.5 m thick lift of compacted sieved till on the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m.

Photograph SD3-340: From Sta. 20+750/-40 m, looking S. Compaction of the third 0.5 m thick lift of compacted sieved till on the upstream toe liner tie-in with an excavator from Sta. 20+760 m to 20+820 m.

Photograph SD3-341: From Sta. 20+600/-58 m, looking W. Placement of a first 0.5 m thick lift of fine rockfill on the upstream slope of the upstream toe liner tie-in with an excavator from Sta. 20+588 m to 20+599 m.

Photograph SD3-342: From Sta. 20+600/-57 m, looking W. View of the compaction test and view of the filling of the depression between SD2 and SD3 with low quality till up to El. 145 m.

QA DAILY REPORT

DATE July 17th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Samuel Barbeau **EMAIL sbarbeau@golder.com**

QA DAILY REPORT FOR JULY 16TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- AEM asked if the erosion protection cover on SD3 could be raised to El. 143.5 m rather than 144 m. As the maximum water level elevation in the deposition plan is of 143 m, the minimum freeboard between the erosion protection cover crest would be 0.5 m. Considering that the design wave as a maximum run-up of 1 m directed E/SE towards Central Dike, the waves towards SD3 are expected to be lower. The Designer accepted the modification for the elevation of the erosion protection cover from El. 144 m to 143.5 m under the following conditions:
  - AEM will make sure the water level in the south cell remains below 143 m;
  - AEM will ensure that no waves frequently strike over the erosion protection cover;
  - AEM will be disposed to add till and fine rockfill on the protection cover if required.

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA Observations for Saddle Dam 3

Activity or Area	Comments
Upstream erosion protection layer	■ Placement of a third 0.5 m thick lift of low quality till (0-150 mm) from El. 142.5 m to 143 m from Sta. 20+570 m to 20+590 m. ■ Placement of a second 0.5 m thick lift of fine rockfill (0-500 mm) upstream of the low quality till (0-150mm) from El. 142.5 m to 143 m from Sta. 20+588 m to 20+600 m.

SAMPLING, LABORATORY AND FIELD TESTING

Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

5.0 PHOTOGRAPHS

Photograph SD3-343: From Sta. 20+590/-40 m, looking NW. View of the depression between SD2 and SD3 backfilled with low quality till up to El. 145 m.

Photograph SD3-344: From Sta. 20+610/-43 m, looking S. Placement of a third 0.5 m thick lift of low quality till (0-150 mm) from El. 142.5 m to 143 m from Sta. 20+570 m to 20+590 m.

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QA DAILY REPORT

DATE July 18th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 17TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny to cloudy.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Vault Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The upstream erosion protection cover will merge with the upstream toe liner tie-in of the south abutment of SD3 and the granular protection layers will be completed over the low-quality till (0-150 mm) with a 3H:1V slope.
- Given the elevation of the upstream toe liner tie-in on the north abutment of SD3 (close to 145 m) and the very gentle slope of the upstream slope in the fault zone, the granular protection layers will only be installed up to the level of compacted sieved till placed against the upstream slope of the liner (about El. 144.5 m) in order to avoid placing large quantities to achieve El. 145 m, which would not provide a significant additional protection of the till toe liner tie-in.

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA Observations for Saddle Dam 3

Activity or Area	Comments
Upstream erosion protection layer	■ Placement of a fourth 0.5 m thick lift of low quality till (0-150 mm) from El. 143 m to 143.5 m from Sta. 20+619 m to 20+777 m. ■ Placement of a third 0.5 m thick lift of fine UM rockfill (0-500 mm) upstream of the low quality till (0-150mm) from El. 143 m to 143.5 m from Sta. 20+668 m to 20+777 m.
Upstream toe liner tie-in – north abutment	■ Compaction of the third 0.5 m thick lift of compacted low quality till (0-150 mm) on the upstream toe liner tie-in with an excavator from Sta. 20+569 m to 20+599 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibrations (4 passes), only where no LLDPE geomembrane lies underneath the layer. The material will be tested tomorrow with the PNG with a reference board.

SAMPLING, LABORATORY AND FIELD TESTING

Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

5.0 PHOTOGRAPHS

Photograph SD3-345: From Sta. 20+760/-42 m, looking NW. Placement of a fourth 0.5 m thick lift of low quality till (0-150 mm) from El. 143 m to 143.5 m from Sta. 20+619 m to 20+777 m.

Photograph SD3-346: From Sta. 20+760/-21 m, looking E. Placement of a third 0.5 m thick lift of fine UM rockfill (0-500 mm) upstream of the low quality till (0-150mm) from El. 143 m to 143.5 m from Sta. 20+668 m to 20+777 m.

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QA DAILY REPORT

DATE July 19th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 18TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 10°C, cloudy to sunny.

2.0 HEALTH AND SAFETY

- The rain is an issue, the muddy and very slippery ground causes a high risk of slips and falls. Extra caution must be applied when walking or driving on wet surfaces.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Vault Pit.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The works at Central Dike will be done after the portion of the North Cell Internal Structure at El. 152 m is completed.
- The sieved till used against the LLDPE liner on the upstream slope of SD3 as part on the granular protection of the south upstream toe liner tie-in contained many rocks larger than 50 mm, probably picked up during loading at the stockpile. Therefore, the QA and QC personnel supervised the placement of the till to ensure no large rock was placed against the liner.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in

conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA Observations for Saddle Dam 3

Activity or Area	Comments
Upstream erosion protection layer	■ Placement of a third 0.5 m thick lift of fine UM rockfill (0-500 mm) upstream of the low quality till (0-150mm) from El. 143 m to 143.5 m from Sta. 20+688 m to 20+619 m. ■ Compaction of the 0.5 m lift of low quality till (0-150 mm) at El. 143.5 m with a 10-tonne smooth-drum compactor with vibration (4 passes) from Sta. 20+619 m to 20+777 m. ■ Compaction of the 0.5 m lift of fine UM rockfill (0-500 mm) at El. 143.5 m with a 10-tonne smooth-drum compactor with vibration (4 passes) from Sta. 20+619 m to 20+777 m.
Upstream toe liner tie-in – north abutment	■ Testing of the compaction of the 0.5 m thick lift of low quality till (0-150 mm) with the PNG. A reference board was made for the low quality till. The optimum number of passes was 4 passes. ■ Placement of a 0.5 m thick lift of fine filter on the top of the upstream toe liner tie-in with an excavator from Sta. 20+599 m to 20+613 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes).
Upstream toe liner tie-in – south abutment	■ Placement of a 0.5 m thick layer of compacted sieved till on the upstream slope of SD3 with an excavator from Sta. 20+777 m to 20+807 m. No large rock was allowed to be placed against the LLDPE liner. ■ Placement of a 0.5 m thick lift of fine filter on the top of the upstream toe liner tie-in with an excavator from Sta. 20+777 m to 20+807 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes). ■ Placement of a 0.5 m thick lift of coarse filter on the top of the fine filter on the upstream toe liner tie-in with an excavator from Sta. 20+777 m to 20+807 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes). ■ Placement of a 1 m thick lift of fine UM rockfill (0-500 mm) on the top of the coarse filter on the upstream toe liner tie-in with an excavator from Sta.

Activity or Area	Comments
	20+777 m to 20+807 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes).

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph SD3-347: From Sta. 20+640/-41 m, looking W. Placement of a third 0.5 m thick lift of fine UM rockfill (0-500 mm) upstream of the low quality till (0-150mm) from El. 143 m to 143.5 m from Sta. 20+688 m to 20+619 m.

Photograph SD3-348: From Sta. 20+760/-25 m, looking E. Placement of a 0.5 m thick layer of compacted sieved till on the upstream slope of SD3 with an excavator from Sta. 20+777 m to 20+807 m. No large rock was allowed to be placed against the LLDPE liner.

Photograph SD3-349: From Sta. 20+765/-29 m, looking SE. Compaction of the 0.5 m thick lift of fine filter on the top of the upstream toe liner tie-in with a 10 tonne smooth-drum compactor with vibration (4 passes) from Sta. 20+777 m to 20+807 m.

Photograph SD3-350: From Sta. 20+740/-24 m, looking SE. Placement of a 0.5 m thick lift of coarse filter on the top of the fine filter on the upstream toe liner tie-in with an excavator from Sta. 20+777 m to 20+807 m.

Photograph SD3-351: From Sta. 20+740/-24 m, looking SE. Compaction of the 0.5 m lift of low quality till (0-150 mm) at El. 143.5 m with a 10-tonne smooth-drum compactor with vibration (4 passes) from Sta. 20+619 m to 20+777 m.

QA DAILY REPORT

DATE July 20th 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 19TH, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- A blast is planned at 12:45 at Pit E5.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- The north abutment upstream toe liner tie-in only has a fine filter granular protection, since the elevation (close to El. 145 m) did not leave room to place the other layers (coarse filter and fine rockfill).
- Works on SD3 are now completed.

4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA Observations for Saddle Dam 3

Activity or Area	Comments
Upstream toe liner tie-in – north abutment	■ Corrections to the layer of compacted sieved till placed against the upstream slope from Sta. 20+599 m to 20+613 m. ■ Completion of the compaction of the 0.5 m thick lift of fine filter on the top of the upstream toe liner tie-in with a 10 tonne smooth-drum compactor with vibration (4 passes) from Sta. 20+599 m to 20+613 m.

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result
#57 (PNG)	2018-07-18	2018-07-18	Compacted low quality till (0-150 mm)	SD3 (in place) 20+594.5/-41.8 m, El. 145.1 m	Dry density	2092
					Water content (PNG)	7.5%
#58 (PNG)	2018-07-18	2018-07-18	Compacted low quality till (0-150 mm)	SD3 (in place) 20+600.0/-47.8 m, El. 144.6 m	Dry density	2116
					Water content (PNG)	7.6%
#59 (PNG)	2018-07-18	2018-07-18	Compacted low quality till (0-150 mm)	SD3 (in place) 20+607.0/-54.7 m, El. 143.9 m	Dry density	2103
					Water content (PNG)	5.9%

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph SD3-352: From Sta. 20+600/-59 m, looking SW. Corrections to the layer of compacted sieved till placed against the upstream slope from Sta. 20+599 m to 20+613 m.

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QA DAILY REPORT

DATE July 23rd 2018 1897439-1576-TM-Rev0

TO Patrice Gagnon, Pier-Éric McDonald
Agnico Eagle Mines Ltd, Meadowbank Division

CC Frédérick Bolduc, Alexandre Lavallée

FROM Marion Habersetzer **EMAIL mhabersetzer@golder.com**

QA DAILY REPORT FOR JULY 22ND, 2018 – TSF SOUTH CELL CONSTRUCTION - MEADOWBANK (1897439)

1.0 WEATHER

Temperature around 15°C, sunny to cloudy.

2.0 HEALTH AND SAFETY

- Dust is still an issue on the construction field; be vigilant by staying out of the dust cloud near construction activities and road circulation. Wear a mask in the lab.
- Coactivity on the dike: be aware of blind spots and safe spots, keep good communication and visual contact with the operators.
- It is required to slow down when passing near workers on foot, as vehicles lift a large quantity of dust.
- The south access to Central Dike is closed due to mine activity in the area.

3.0 DISCUSSION AND DAILY CONSTRUCTION MEETING

During the daily construction meeting and during the day the following discussions were held:

- Due to a field adjustment in the layers of materials placed against the upstream slope of the north upstream toe liner tie-in of Central dike at El. 143 m during the previous raise (compacted sieved till replaced by fine filter with a layer of geotextile and narrower total width of the fine filter layer towards the south), the footprint of the layers of compacted sieved till, fine filter and coarse filters were modified. In order to guarantee the thickness of the compacted sieved till layer (0.5 m) which is the first protection placed against the LLDPE liner, fine and coarse filter layers were thinned (about 0.3 m thick). The fine UM rockfill in place on the rest of the upstream toe liner tie-in did not allow for offsetting of the filters layers to keep the original thickness of 0.5 m.
- Works on Central Dike and the South Cell are now completed (see photographs below).

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4.0 DESCRIPTION OF CONSTRUCTION WORK PERFORMED AND QA OBSERVATIONS

The QA activities by Golder are based on periodic inspections performed by the QA Engineer in order to monitor the construction activities and progress of the structure of the South Cell of the TSF. This report must be read in conjunction with the QC Report. The following tables summarize the progress and observations made for each structure.

Table 1: QA Observations for Central Dike

Activity or Area	Comments
Upstream toe liner tie-in – north abutment	■ Placement of a 0.5 m thick layer of compacted sieved till on the upstream slope of Central Dike with an excavator from Sta. 0+147 m to 0+177 m. The layer was compacted with the bucket of the excavator. ■ Placement of a 0.5 m thick lift of fine filter on the top of the upstream toe liner tie-in and on the upstream slope with an excavator from Sta. 0+147 m to 0+177 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes). ■ Placement of a 0.5 m thick lift of coarse filter on the top of the fine filter on the top of the upstream toe liner tie-in and on the upstream slope with an excavator from Sta. 0+147 m to 0+177 m. The lift was compacted with a 10 tonne smooth-drum compactor with vibration (4 passes). ■ Placement of two 0.5 m thick lifts of fine UM rockfill (0-500 mm) on the top of the coarse filter on the upstream toe liner tie-in with an excavator from Sta. 0+147 m to 0+177 m. The lifts were compacted with a 10 tonne smooth-drum compactor with vibration (4 passes).

5.0 SAMPLING, LABORATORY AND FIELD TESTING

Table 2 and Table 3 present the samples collected or tested by the QA and QC as well as PNG field results.

Table 2: Samples taken by the QC

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

Table 3: Samples taken by the QA

Sample ID	Date Sampled	Date Tested	Fill Material Type	Location (Station/Offset Elevation)	Test	Testing Result

6.0 PHOTOGRAPHS

Photograph CD-1896: From Sta. 0+140/-30 m, looking S. Placement of 0.5 m thick layers of compacted sieved till and fine filter on the upstream slope of Central Dike with an excavator from Sta. 0+147 m to 0+177 m.

Photograph CD-1897: From Sta. 0+145/-30 m, looking NW. Placement of a 0.5 m thick lift of coarse filter on the top of the fine filter on the top of the upstream toe liner tie-in and on the upstream slope with an excavator from Sta. 0+147 m to 0+177 m.

Photograph CD-1898: From Sta. 0+145/-30 m, looking W. Compaction of the 0.5 m thick lift of coarse filter on the top of the fine filter on the top of the upstream toe liner tie-in and on the upstream slope with a 10 tonne smooth-drum compactor with vibration (4 passes) from Sta. 0+147 m to 0+177 m.

Photograph CD-1899: From Sta. 0+140/-33 m, looking S. View of Central Dike at the end of the 2018 construction phase.

Photograph SD3-353: From Sta. 20+580/-49 m, looking SW. View of SD3 at the end of the 2018 construction phase.

APPENDIX F

QC Daily Reports

E:\QC\Daily Inspection Report 2017-04-22 Day Shift.xls]Daily Report

QC INSPECTOR'S DAILY REPORT
CENTRAL DIKE
AGNICO-EAGLE MEADOWBANK

AGNICO EAGLE
MEADOWBANK

Date: 22-Apr-18 **Inspector - Day/Night:** Cedrick Fillon Tremblay, Day shift

Weather : sunny

Project: CD **Contractor:** Fernand Gilbert

Work in Progress (Location, Activities, Equipment, Quantities, Problems, Delays etc.): Rockfill

General Activities: see work in progress

Soft Sediment Excavation	☐	Key Excavation	☐	Coarse Filter	☐	Drilling/Blasting	☐
Foundation Preparation	☐	LLDPE/Geotextile	☐	Till	☐	Sump Excavation	☐
Water Control	☐	Fine Filter	☐	Rockfill	☒		

Description:

- Rockfill on Central Dyke at El: 145 (0+160 à 0+260). (see sketch join to the report)

-Clear snow and scarification at El: 143 on Central Dyke. (see sketch join to the report)

Delays:

Comments (observations, comments, discussions with contractor, ect.):

Equipment: Packer

Manpower:

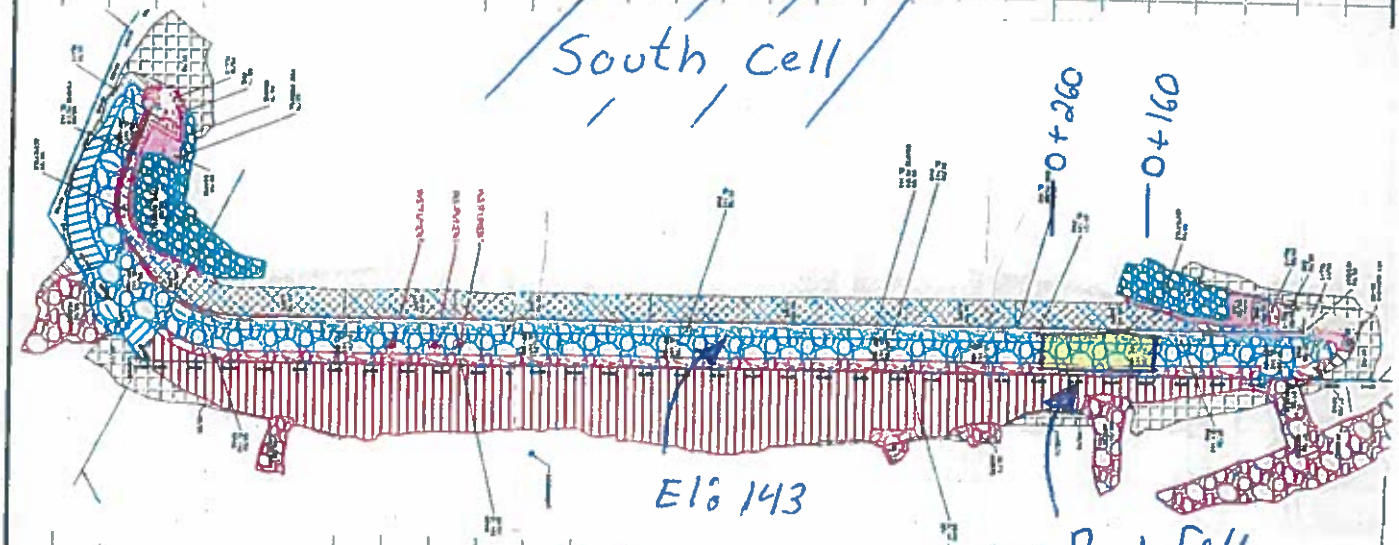
Photos Location:

* Photos must be stored in appropriate location as indicated by the Owner Representative

Plan/Croquis

Client: A. E. M.	Projet no.: 11118538-B1
Projet: Saddle dam # 3, 4 & 5 Central Dyke	Page 1 de 1
Date d'inspection: 22/04/2018	

Central Dyke



Préparé par: Vérifié par:

QC INSPECTOR'S DAILY REPORT
CENTRAL DIKE
AGNICO-EAGLE MEADOWBANK

AGNICO EAGLE
MEADOWBANK

Date: 23-Apr-18 **Inspector - Day/Night:** Cedrick Fillon Tremblay, Day shift

Weather : sunny

Project: CD **Contractor:** Fernand Gilbert

Work in Progress (Location, Activities, Equipment, Quantities, Problems, Delays etc.): Rockfill

General Activities: see work in progress

Soft Sediment Excavation	☐	Key Excavation	☐	Coarse Filter	☐	Drilling/Blasting	☐
Foundation Preparation	☐	LLDPE/Geotextile	☐	Till	☐	Sump Excavation	☐
Water Control	☐	Fine Filter	☐	Rockfill	☒		

Description:

- Rockfill on Central Dyke at El: 145 (0+260 à 0+350).

Delays:

Comments (observations, comments, discussions with contractor, ect.):

Equipment: Packer

Manpower:

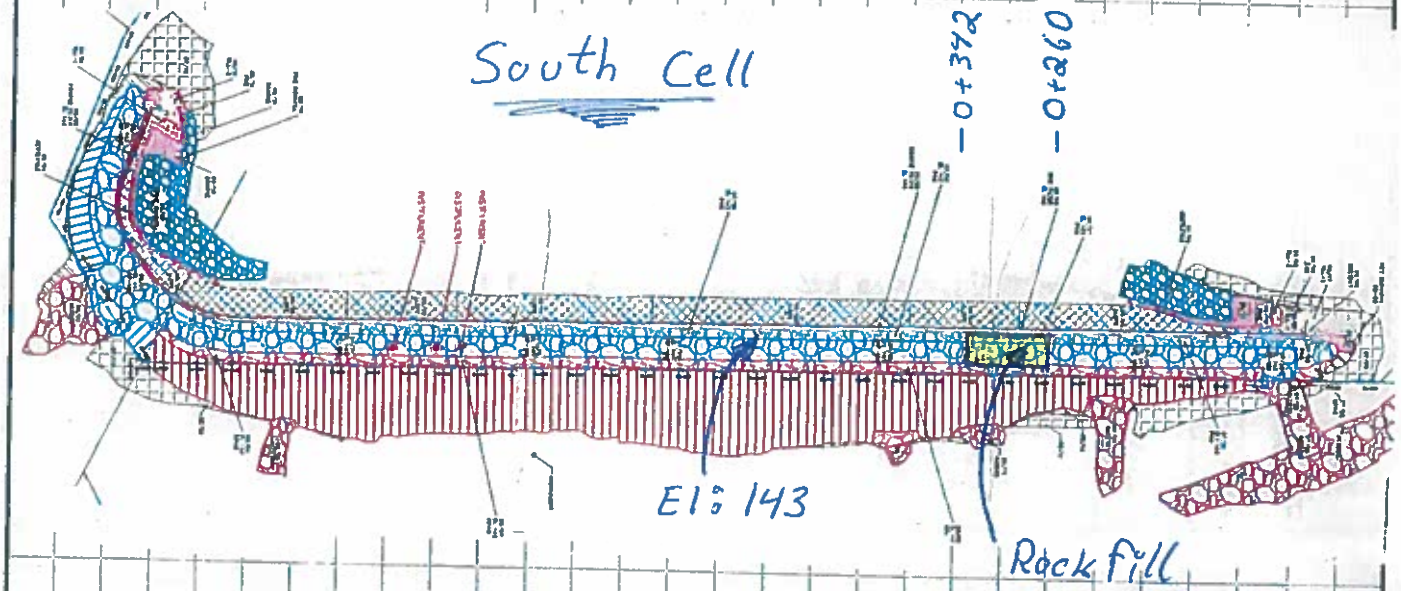
Photos Location:

* Photos must be stored in appropriate location as indicated by the Owner Representative

Plan/Croquis

Client: A. E. M.	Projet no.: 11118538-B1
Projet: Saddle dam # 3, 4 & 5 Central Dyke	Page 1 de 1
Date d'inspection: 23/04/2018	

Central Dyke



Préparé par: _____ Vérifié par: _____

QC INSPECTOR'S DAILY REPORT
CENTRAL DIKE
AGNICO-EAGLE MEADOWBANK

AGNICO EAGLE
MEADOWBANK

Date: 24-Apr-18 **Inspector - Day/Night:** Cedrick Fillon Tremblay, Day shift

Weather : sunny

Project: CD **Contractor:** Fernand Gilbert

Work in Progress (Location, Activities, Equipment, Quantities, Problems, Delays etc.): Rockfill

General Activities: see work in progress

Soft Sediment Excavation	☐	**Key Excavation**	☐	**Coarse Filter**	☐	**Drilling/Blasting**	☐
Foundation Preparation	☐	**LLDPE/Geotextile**	☐	**Till**	☐	**Sump Excavation**	☐
Water Control	☐	**Fine Filter**	☐	**Rockfill**	☒		

Description:

- Rockfill on Central Dyke at El: 145 (0+350 à 0+420). (see sketch join to the report)

Delays:

Comments (observations, comments, discussions with contractor, ect.):

Equipment: Packer

Manpower:

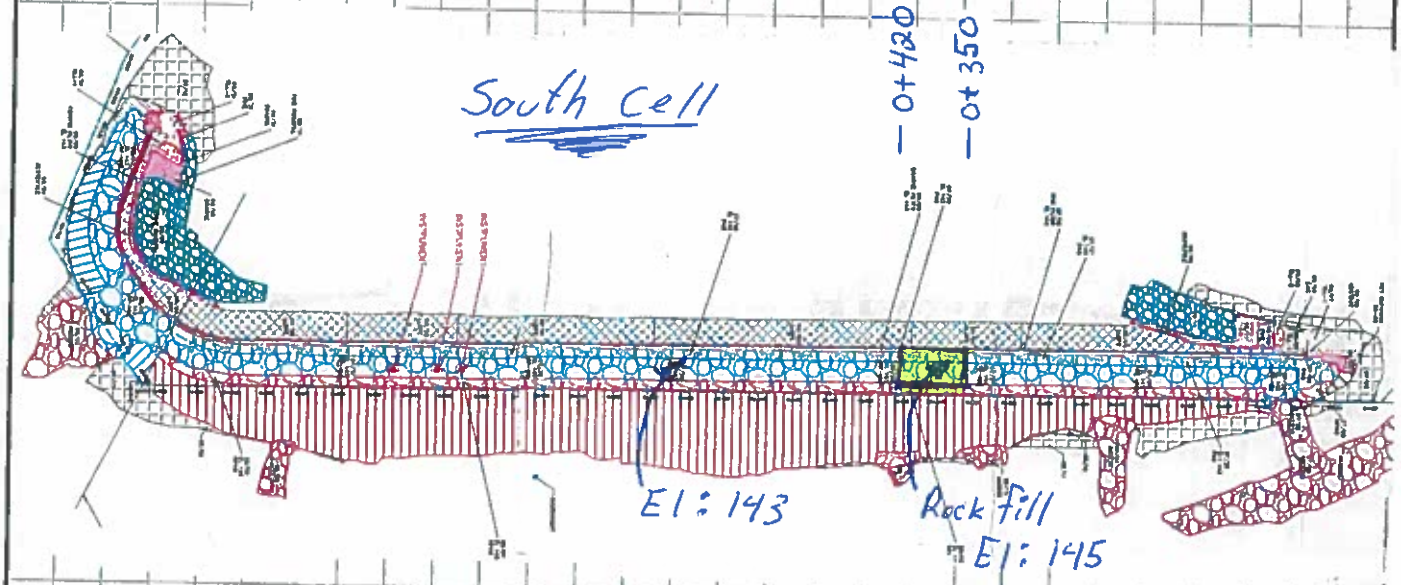
Photos Location:

* Photos must be stored in appropriate location as indicated by the Owner Representative

Plan/Croquis

Client: A. E. M.	Projet no.: 11118538-B1
Projet: Saddle dam # 3, 4 & 5 Central Dyke	Page 1 de 1
Date d'inspection: 24/04/2018	

Central Dyke



Préparé par: Vérifié par:

E:\QC-Daily Inspection Report 2014-04-28 Day Shift.xls\Daily Report

QC INSPECTOR'S DAILY REPORT
CENTRAL DIKE
AGNICO-EAGLE MEADOWBANK

AGNICO EAGLE
MEADOWBANK

Date: 25-Apr-18 **Inspector - Day/Night:** Cedrick Fillon Tremblay, Day shift

Weather : sunny

Project: CD **Contractor:** Fernand Gilbert

Work in Progress (Location, Activities, Equipment, Quantities, Problems, Delays etc.): Rockfill

General Activities: see work in progress

Soft Sediment Excavation	☐	**Key Excavation**	☐	**Coarse Filter**	☐	**Drilling/Blasting**	☐
Foundation Preparation	☐	**LLDPE/Geotextile**	☐	**Till**	☐	**Sump Excavation**	☐
Water Control	☐	**Fine Filter**	☐	**Rockfill**	☒		

Description:

- Rockfill on Central Dyke at El: 145 (0+420 à 0+534). (see sketch join to the report)

-Taked one sample of Fine Filter and Coarse Filter at Sana Chruser in the Stockpile. (see sketch join to the report)

Delays:

Comments (observations, comments, discussions with contractor, ect.):

Equipment: Packer

Manpower:

Photos Location:

*** Photos must be stored in appropriate location as indicated by the Owner Representative**