

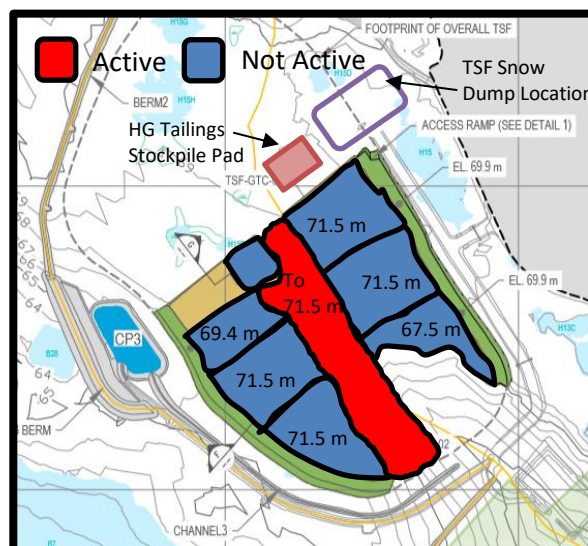
TSF WEEKLY INSPECTION FORM

Date: November 23, 2019	Time: 8:30
Weather: -21.9C; 18 km/h N; mainly sunny	Inspected by: Vanessa Gagnon
Present: Alexandre Plasse	

TAILINGS PLACEMENT

Placement Area: None

	Y	N	NA
Adequate snow removal procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lift heights respected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper compaction? (Speed, # of passes)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traffic management?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Observations:

- No tailings placement was occurring at the moment of the inspection. The last week focused on placing tailings in the center cell to approximate elevation 71.5 m.
- Snow removal was occurring from accumulation in center cell. A loader was cleaning the piles made with a shovel earlier and loading trucks to send the snow to the TSF snow dump. Snow is still left to be removed in the sub-cell 6 and in the south part of the center cell.
- It was observed that an area has not been compacted in the center cell. As soon as the wind picks up, this will result in dusty condition if the surface is not sealed.
- Two sea cans with unplaced filter cloths are still located in sub-cell 6 where snow is accumulating and tailing cannot be placed. Filter cloths pallets are also accumulating at the end of sub-cell 3.
- Vehicle tracks were observed on sealed surfaces. Main access to center cell seems to be through sub-cell 2 and sub-cell 2 is being used to park equipment between shifts.

Actions:

- Placement should continue to focus on "filling in the holes" as issues regarding snow collection and removal will occur in these areas over the winter. These locations are the center cell, sub-cell 1 and between sub-cells 4/5. **Any excess snow/ice must be removed from trenches or the tailings/ground surface prior to placement.** No additional lifts are to be placed on sub-cells 2, 3, 4 or 5 at this time.
- Winter placement conditions must be followed in order to achieve proper compaction and reduce settlement in the summer months:
 - Tailings should be removed from the Church immediately** to avoid freezing of this material prior to placement. Stockpiling in the Church should only occur in extreme conditions.
 - Compaction of tailings should also occur immediately following placement.** If compacted while unfrozen, the same number of passes (3 slow passes on high vibrate) applies. If frozen tailings material has to be placed, Engineering must be notified so that the least harmful placement location and compaction specifications can be chosen.
- There should be no vehicle traffic on the finished tailings surface.** Flash freezing of the surface will occur and erosion/dust generation will be at its peak. Traffic over snow will grind/compress the snow into the tailings surface and will make snow removal in these areas more difficult.
- Snow should not be placed/stockpile anywhere but the designated snow dump location in Cell 2.** The location of the snow dump was chosen based on experiences during freshet 2019.
- Filter cloths should be placed as soon as possible** to avoid additional work to separate the cloths prior to placement if they are all frozen together.

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INSTRUMENTATION

	Y	N	NA
Ground temperature cables read?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Issues/Problems with any cables/beads? (If YES, describe below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COVER MATERIAL PLACEMENT

Placement Area: None

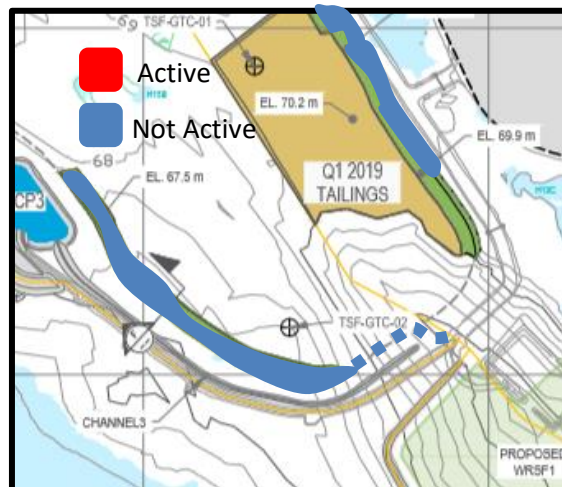
	Y	N	NA
Adequate snow removal procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lift heights respected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper compaction? (Speed, # of passes)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traffic management?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Observations:

- None

Actions:

1. Fill in and compact trench through the berm at sub-cell 1 and re-establish the access road.
2. The west berm should be raised as soon as possible as the gap between the current berm and tailings is acting as a snow trap. This snow/ice must be removed prior to placing the next lift of waste rock.



PHOTOGRAPHS



Photo 1: Sea cans causing snow to build up and restricting placement area in sub-cell 6; view facing northwest

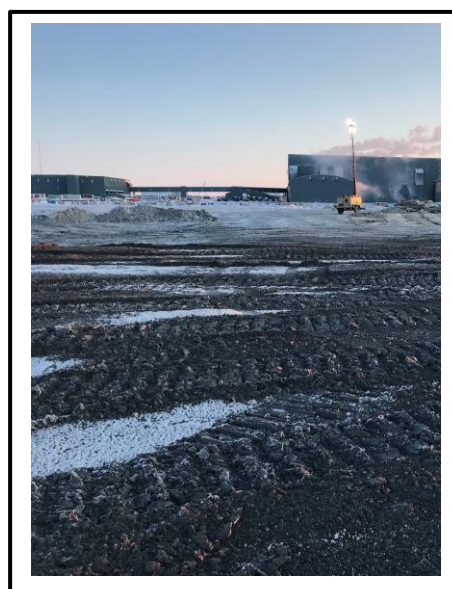


Photo 2: Uncompacted surface in the center cell; view facing east

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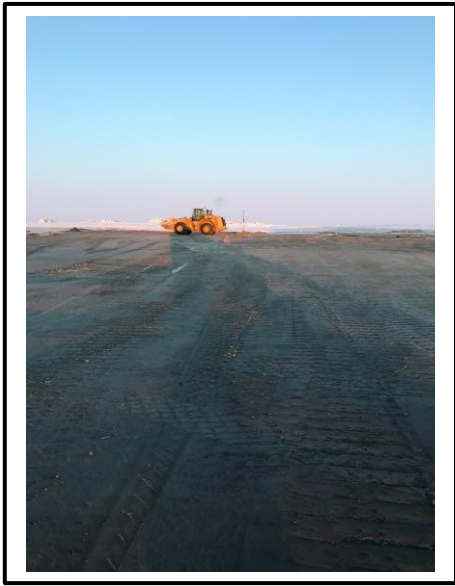


Photo 3: Track marks and tire tracks on the sealed surface in the center cell; view facing north

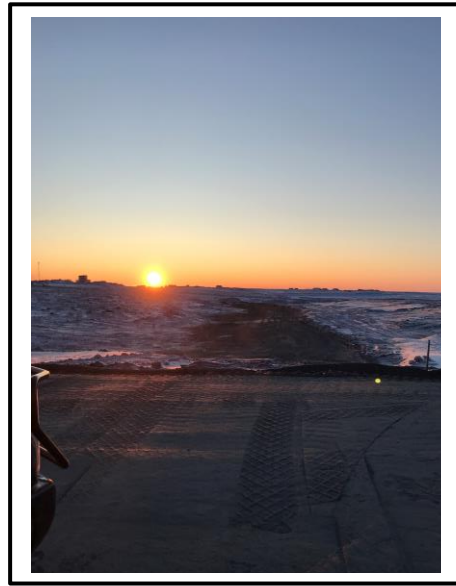


Photo 4: Snow to be removed in the southern part of the center cell before future placement; view facing south



Photo 5: Snow to be removed between sub-cell 4/5 before future placement; view facing south