



Notes:

- Closure concept developed based on operational conditions described in SRK memorandum to MEL titled "Preliminary Design of the Tailings Diversion Ditch Upgrade" (dated November 14, 2013)
- This annotated drawing is modified from Drawing 3 of the above mentioned SRK Preliminary Design memorandum.
- Closure conditions will require 3 distinct aspects each of which is colour coded and annotated on the accompanying design plan:
 1. Prevention of flow to the TDD via the operational pipelines
 - a. Decommissioning of operational pipeline from SDD to TDD
 - b. Construction of a thick residuum plug at pipe inlet to block access to TDD
 2. Partial backfilling of the ditch in the vicinity of the overflow spillway to ensure that Ditch 100 drains unimpeded over the spillway to Area 2 Pit
 - a. Overburden to be regraded smooth and prepared for capping with BGM
 - b. 1m high perimeter berms to be constructed to define the edges of the spillway extension and provide lateral containment of flow
 - c. BGM liner to be installed directly over prepared overburden foundation. Liner to be anchored in perimeter berms.
 - d. Liner will be left exposed to the elements
 3. Protection of the steep overburden slope downgradient of the overflow spillway
 - a. Overburden to be regraded smooth and prepared for capping with BGM
 - b. 1m high perimeter berms to be constructed to define the edges of the spillway extension and provide lateral containment of flow
 - c. BGM liner to be installed directly over prepared overburden foundation. Liner to be anchored in perimeter berms.
 - d. Liner will be left exposed to the elements
- Details of the closure concept to be designed at closure.

3) OVERBURDEN SLOPE DOWNGRADIENT OF OPERATIONAL SPILLWAY TO BE GRADED SMOOTH AND COVERED WITH BGM LINER. RAISED SIDES TO ALLOW FOR 0.5 m DEPTH OF FLOW.

1) PIPE DECOMMISSIONED AND THICK RESIDUUM PLUG TO PREVENT FLOW TO TDD. PROTECTED WITH RIP-RAP

2) PARTIALLY BACKFILL DITCH 100 / UPGRADED SOUTH DIVERSION DITCH, IN THE VICINITY OF THE OVERFLOW SPILLWAY TO ENSURE SMOOTH HYDRAULIC PERFORMANCE AT CLOSURE

CONCEPTUAL - FOR DISCUSSION

NOTE:
 1. Original drawing source: SRK memorandum to MEL titled "Preliminary Design of the Tailings Diversion Ditch Upgrade" (dated November 14, 2013).
 2. Topographic contours provided by Minto.
 3. Contour interval is 1 m.



DATE	ISSUE/REVISION	REV No.	DRW.	APP.
2014-06-30	Conceptual Design	00	KAB	JAT



PROJECT NAME:
Minto Phase V / VI Reclamation & Closure Plan

DRAWING NAME:
Closure Concept for Ditch 100 / Upgraded South Diversion Ditch & TDD Pipeline

DESIGNED BY: JAT	ACCESS PROJECT NO: MIN-11-02	CLIENT REF.:
DRAWN BY: KAB	DRAWING SCALE: 1:1250	
CHECKED BY: JAT	DRAWING NO: 02	REV.: 00

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