

From: Greg Johnston
Sent: Thursday, June 23, 2005 1:41 PM
To: 'rmartel@mountpolley.com'; Mark Burke
CC: Ken Brouwer; Les Galbraith; Filing
Subject: Geotextile and perforated piping - Main and South Embankments (VA101-1/10-A.01)

Hello Ron and Mark,

In response to your queries regarding filter cloth and perforated pipe on the Main and South Embankments

Main Embankment

The Main embankment under the piezometers will require filter cloth be placed. Since I spoke to you yesterday I have learnt that an erosion susceptible unit is mapped in places on the main embankment. The existing design i.e. filter cloth on prepared ground, 1m of Zone T followed by Zone C will be required in this area.

Area's and volumes (Neat line) assuming the stability berm constructed extends between SI01-3 to SI01-5 installations, a distance of approximately 225m.

Geotextile (including an allowance for overlaps) = 3,500 m²

Zone T = 3,200 m³

Zone C = 15,000 m³

South Embankment

The South embankment longitudinal drain design change (Design Change 5 Rev. 0) whereby the drain rock surrounding the perforated pipe is removed has been approved with amendments. A filter cloth/ filter sock will NOT be used on the perforated pipe. The Zone F surrounding the pipe has a filter relationship with both the natural ground and the perforations in the drainage pipe (from the Hancor tech spec sheet supplied).

Pipe required:

150mm dia perforated drain pipe = 580 m

200mm dia nonperforated outlet pipe = 20 m

+ Precast manhole segments from the bone yard

To construct the ultimate South embankment downstream foundation between chainage 6+25 and 11+75 to the top of Zone T requires:

Geotextile = 18,200 m²

Zone T = 16,750 m³

Hope this covers what you need.

I understand that you will not be working on the TSF before next Monday, I have changed my site visit to Mt Polley to Tuesday July 5th. This can be revised as needed.

Regards
Greg

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