

**From:** Mark Burke  
**Sent:** Wednesday, March 22, 2006 11:18 AM  
**To:** Les Galbraith  
**Subject:** RE: PE DS toe drain design change

Les,

Today we are doing the basin liner investigation on the SE; placing till on the PE; placing Zone C on the PE; stripping the ME, Surveying, etc. It's very busy. I will get back to you with a sketch as soon as possible.

Mark

-----Original Message----- Les,

**From:** Les Galbraith  
**Sent:** Wed 3/22/2006 8:17 AM  
**To:** Mark Burke  
**Cc:**  
**Subject:** RE: PE DS toe drain design change

Mark: [See comments below.](#)

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**From:** Mark Burke  
**Sent:** Tuesday, March 21, 2006 4:25 PM  
**To:** Les Galbraith  
**Subject:** RE: PE DS toe drain design change

Les,

I will resend the first sketch that I had faxed the other day. The existing upstream toedrain, and the new down stream toe drain will drain in to the PE seepage collection pond in a ditch located adjacent the ultimate toe. I will show this on a plan view drawing.

Today MPMC is stripping the Main Embankment to the Ultimate toe in order to prepare for the installation of the inclinometers. They ran out of waste rock in the pit, so no Zone C has been placed since Saturday. All of the Zone C placed so far has been on the Perimeter Embankment. Lake Excavation is near completion of the remaining Zone U placement on the Perimeter Embankment (to elev 946m). Tomorrow Lake will be placing till starting at the corner of the Main and Perimeter Embankments working along the PE. Tomorrow we will begin the basin liner investigation on the South Embankment. The goal of this is to identify any areas where the liner is less than 2m. We will drill several 2 meter deep holes with a 12" auger mounted on a bobcat. The holes will be backfilled with bentonite.

Today I dug a testpit to see if there was geotextile placed under the Zone T haulroad on the Main Embankment. We dug up the road at chainage 24+00 and found that there was no geotextile placed under the Zone T haul road. Should we remove all sections of the Zone T haulroad that do not have geotextile? There is currently no geotextile placed under the Zone T haulroad between chainages 15+00 to 17+00 and between 23+00 to

27+80. Fax me a sketch of the ME showing the areas you are referring to. I am not sure where the Zone T haul road is between chainages 23+00 to 27+80.

Was it 1 foot of sand that Ken mentioned is a sufficient replacement for the geotextile? Yes

Mark

---Original Message-----

**From:** Les Galbraith

**Sent:** Tue 3/21/2006 1:29 PM

**To:** Mark Burke

**Cc:**

**Subject:** RE: PE DS toe drain design change

Mark:

Thanks for the design change request form. You do not have to send revised AutoCAD drawings though. The easiest way to do this is to mark up a drawing and fax it to the office, like you did last week. This way we know exactly what the design change request is. The plan drawing you sent does not clearly show what you are planning to do. The plan drawing also does not show how you are planning on getting the water from the drain to the perimeter drainage ditch which ultimately drains to the PE seepage collection pond. The d/s toe drain does not have to be 5 m wide. The previous sketch you faxed last week is a better design and the level of detail I would expect. Just add it to the design change request form with details on how the water is going to get to the ultimate d/s toe drain.

Les

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**From:** Mark Burke

**Sent:** Tuesday, March 21, 2006 12:45 PM

**To:** Les Galbraith

**Subject:** PE DS toe drain design change

Les,

attached is the design change request form and autocad drawings for the PE DS toe drain at Mount Polley.

Mark