

**From:** Mark Burke  
**Sent:** Friday, March 10, 2006 10:55 AM  
**To:** Les Galbraith  
**Subject:** RE: Zone U Samples

Les,

KP05-81, KP05-71, and KP05-71b are all samples of the sands placed upstream of the core on the Perimeter Embankment. This material is the same product as the cyclone sands, it drains slowly but fast enough such that water does not pool. These samples can be found on the M drive under Lab test results\Zone S.xls. This sand has been placed between chainages 44+00 to 36+50 (approximately). The Zone U between chainages 28+00 and 36+00 has not yet been placed. I can make sure that the top meter of the Zone U is the Zone FT material I showed you in Borrow area 3. We have taken samples of that, and it drains very well.

I'll get that weekly to you by the end of the day,

Mark

-----Original Message-----

**From:** Les Galbraith  
**Sent:** Thu 3/9/2006 4:19 PM  
**To:** Mark Burke  
**Cc:**  
**Subject:** Zone U Samples

Mark:

We are planning to install an upstream toe drain on the PE this year. The current plan is to install the drain in the Zone U material once the dam has reached 948 m. I need to know what the Zone U material is constructed of for the entire length of the PE. For most of the PE I believe it was tailings sand but I think you said that the work to be completed by Lake involves using other materials for the Zone U. We would ideally like this material to be free draining so the upstream toe drain is effective. I need you to collect Zone U samples all along the PE (chainages 28+00 to 44+00) and test for PSA. Use your judgment to figure out how many samples you need to collect to characterize the Zone U material at the PE.

Call me if you have any questions.

Any word on the progress of last week's weekly report?

Les Galbraith, P.Eng.  
Senior Engineer

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