



September 5, 1995

File: 14745-40/MTPO/01

Co. Brawner, P. Eng.
502 -100 Park Royal South
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Dear Chuck:

RE: MT. POLLEY TAILINGS DAM

Please find enclosed a package of reports on the Mt. Polley tailings dam.

Tim wants an independent review of the tailings facility.

The following are key aspects of the facility which may require attention in your review:

1. Conditions
 - dam foundation on and tills
 - potential for weak and wet glacio-lacustrine silts in part or all of main dam foundation
 - soil proposed for construction is wet of optimum density
2. Design
 - main dam design of modified center line construction
 - low permeability basin liner over the glacio-lacustrine silts
 - upper part of main dam is above bulk tailings placed in stored water in the impoundment
 - underdrains are provided for the basin liner and for the main dam
3. Construction and operation
 - main dam foundation requires drainage for construction and foundation quality and possibly long term stability or seepage control. The last aspect is not clear.
 - there will be drainage ditches installed this fall to allow foundation soil drainage
 - the impoundment will be used for water storage initially
 - bulk tailings will be placed in the stored water adjacent to the dam

Could you please include in your review suggestions for anything that should be looked for in the foundation inspection that I will be conducting. I will be on site periodically from September 15 to October inspecting drainage preparation. I will call you then.

Thanks for your assistance.

Yours sincerely;

George S. Headley, P. Eng.
Senior Geotechnical Engineer

Attachments