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x Pr. George

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October 23, 1995

Mine Review and Permitting Branch
Ministry of Energy, Mines & Petroleum Resources
4th. Floor - 1810 Blanshard St.
Victoria, B.C.
V8V 1X4

Attn: Tim Eaton, P. Eng.
Geotechnical Engineering

Dear Mr. Eaton:

Re: Mt. Polly Tailings Dam

The Mt. Polly Tailings Dam site was inspected with George Headley on Thursday, October 19, 1995. Photographs of the site are appended.

The site has been cleared of vegetation and numerous surface drainage trenches have been developed. The organic overburden has not been removed. All test pits have been filled back in.

The Knight & Piesold report adequately describes the site. A review of the test pits indicates a sand horizon exists near the surface over a portion of the west flank of the damsite area. This sand will have a moderate permeability and under moderate head could develop piping. It will be necessary to develop a seepage cutoff to prevent such an occurrence.

All of the organic overburden must be removed.

The excavation of the surface glacial till leaves a smooth surface. To tie the first layer of fill and disrupt the smooth surface, that surface must be scarified.

The comments in my letter of October 13 remain valid.

Yours truly,

C.O. Brawner, P.Eng.

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Photo 1 - Looking west across the site of the main dam. The site has been cleared and drainage ditches have been installed. The surface organics have not been removed. Test pits have been backfilled.

Photo 2 - Ditch excavated to contain a small creek across the site. The southern portion of the ditch is in medium dense to dense glacial till and the southern portion is in glacial lacustrine soils. Note the transition from stable side slopes to ravelling slopes. Easterly end of the dam.

Photo 3 - Looking North along the westerly portion of the dam site. Drainage ditch in glacial till.

Photo 4 - Excavated medium dense glacial lacustrine clayey sandy silt. This material has medium strength, low permeability and medium-low compressibility.

Photo 5 - Glacial till surface exposed by removing organic overburden. The exposed surface is slippery. Prior to placing and fill the surface must be scarified.

Photo 6 - Piezometer installed with water sampling capability. Toe area of the main dam.