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Steve Vestergaard
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February 9, 2015

Re: Reservoir fillslope sign off.

Introduction

As per orders from the Crown, and as prescribed by Cordilleran Geoscience, the Battani Creek reservoir fillslope required pullback to reduce the risk to downslope resources. The work was conducted on the following schedule:

- October 6, 2014 – Site plan survey by JCH
- October 7, 2014 – work plan submitted to MoFLNRO
- October 8-16, 2014 – deactivation work executed by Whittaker Equipment, with field inspections by Cordilleran Geoscience on October 7, 9, 10 & 17.
Approximately 400-500 m³ of spoil removed and transported down to Vestergaard property for storage.
- October 17, 2014 – final inspection by Cordilleran.
- November 7, 2014 – as built survey by JCH.

Comments

On October 17, 2014, Cordilleran reviewed the work done on the reservoir fillslope pullback and found that the pullback was in conformance with the plan sent via email on October 7, 2014.

- Considerable fill had been removed, including stumps and logs, bedrock was encountered at two locations part way down the fill, and the reconstructed fillslope has been keyed-in to rock where encountered.
- The final fillslope angles are 65-67%.
- A small amount of fill was not retrieved at the base of slope, but it is judged this does not represent a slide hazard.
- The reservoir outlet channel was widened to 1.8-2.0 m wide at the base and the sidewalls armoured. Sidewall height is 50cm. This gives an area of 0.9 m², exceeding ACx3 estimates made upslope of the reservoir which had areas of 0.3-0.4 m². Angular rock has been placed as armour on the creek outlet and 300 mm MC outfall.
- The fillslope has been subjected to several severe storms (Oct 21/22, December 10, 2014, and several through January and February 2015) and has held firm and has not suffered any appreciable erosion.



- An as-built site plan and pre and post deactivation fillslope cross sections are attached to this report to show amount of work completed and the final configuration.

Conclusions

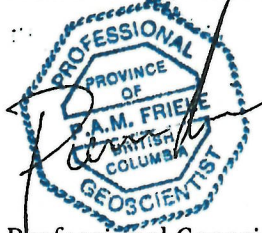
Based on the level of work done, Cordilleran judges that the required pullback at the reservoir fillslope site has been satisfactorily completed, and an assurance statement to that effect is appended.

Closure

This report was prepared for use by Mr. Steve Vestergaard, including distribution as required for purposes for which the report was commissioned. The work has been carried out in accordance with generally accepted geoscience practice. Judgment has been applied in developing the conclusions stated herein. No other warranty is made, either expressed or implied to our clients, third parties, and any regulatory agencies affected by the conclusions.

Should you have any questions please call.

Pierre Friele, P.Geo.



Professional Geoscientist

CERTIFICATE OF GENERAL CONFORMANCE

To be completed by the Coordinating Member on completion of road construction, maintenance works or deactivation.

Road section identification: Battani Creek reservoir fillslope.

Title and date of *Road Plan, Road Deactivation Plan or Road Maintenance Plan*:

October 7, 2014 Battani Creek reservoir fillslope deactivation plan.

Road Construction, Maintenance Works or Road Deactivation:

I confirm that:

- *field reviews** of this *road* section have been conducted by me or under my direct supervision; AND,
 - the completed works are in general conformance with the above noted Plan dated October 7, 2014, OR
- the Plan with amendments described in Schedule A attached
(attach documentation)

Name of *Coordinating Member*: Pierre A. Friele,
Professional designation: Professional Geoscientist

Signature, seal and date:

February 9, 2015



**Field reviews* means such reviews of the constructed works at the forest *road* project site considered necessary, in the *member's* opinion, to ascertain whether or not the significant aspects of the works are considered in general compliance with the *Road Plan, Road Maintenance Plan or Road Deactivation Plan*.

Appendix 1. Annotated Photos.



Photo 1. Fillslope before work initiated.



Photo 2. Wood removed from fillslope during deactivation.



Photo 3. Logs removed from fillslope toe and endhauled to junction.



Photo 4. Layers of buried fill in fillslope.



Photo 5. Deactivation by afternoon of October 9, 2014. Benching down to get fill.



Photo 6. Deactivation by afternoon of October 10, 2014.

Deactivation Plan

Pullback excess fill, from toe to pullback line, as marked, leaving 67% fillslope angle (approximately 500 m3 volume).

Test landing area to document extent of bedrock and depth of cover (not done to wet soils).

Armour reservoir and culvert outfalls (Done).

Assess design discharge and ensure outlet capacity (Done).

Site Plan by JCH Forestry

