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October 6, 2011

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Dear Marilyn,

### **Introduction**

On September 11, 2011, a fixed wing traverse was made of the north end of Perry Ridge by Mike Glatiotis (pilot) and Lucas Jmieff (observer). During this trip, significant photographs were taken of the three cutblocks and the Slocan River. On September 19, a ground traverse of the roads and blocks was carried out by Dr. Anthony Salway, Pierre Kaufmann and Marilyn Burgoon. Obvious faults were noted in the installation of the culverts.

### **September 11 Air Reconnaissance**

Appendix 1 contains Photos 1 to 10, which are a selection of the total number of photographs taken by Lucas Jmieff. Photos 1 and 2 were taken looking north. Photo 3 was taken looking westerly and Photos 4 to 6 were taken looking southerly. These photos clearly show the microtopography, the hummocky bedrock and in particular, the drape of Block 3 down towards a heavily populated area. Photo 7 shows irreparable ground disturbance, particularly caused by the main trail and skid trails, at the north end of Block 3. Photos 8 to 10 were taken of the Slocan River below, showing obvious mid channel sediment bars.

### **September 19 Ground Survey**

Appendix 2 contains Photos 1 to 17, which are a selection of significant ground photographs. Photo 1 shows the south end of the “as built” road between Blocks 3 and 4. It is important to note that Block 4 has not yet been logged. Photo 2 shows some filter fabric at a culvert outlet in Block 3. This filter fabric appears to be cosmetic only. Photo 3 shows a culvert inlet half plugged with sediment. Photo 4 shows a minor amount of moisture intercepted by the main trail. Photo 5 shows another partially buried culvert inlet. Photo 6 illustrates a rudimentary energy dissipator at a culvert outlet. Photo 7 indicates that the inside ditch has been “scratched” out. Photo 8 is a closeup showing exposed bedrock. Photos 9 to 11 illustrate more poor culvert installations and Photos 12 and 13 show a partially buried culvert outlet. Photo 14 shows slash at the north end of Block 3, illustrative of the slash that is distributed through the block. Photos 15

and 16 further illustrate poor culvert installations and Photo 17 shows some more shallow moisture at the Branch 3000 junction.

Appendix 3 contains the following map sections.

- 1) Ray Wehr's Sediment Delivery map, indicating that a number of high hazard polygons exist where the logging has taken place.
- 2) The Ministry of Forests' Terrain Hazard map.
- 3) The Ministry of Forests' Community Watershed map, showing licenced Points of Diversion
- 4) The Ministry of Forests' Species Distribution map
- 5) The Ministry of Forests' Stand Volume Distribution map.

### **Conclusions**

It is unfortunate that BC Timber Sales issued this licence to Sunshine Logging for the blocks discussed above. The government put Sunshine into an untenable situation. One could say that the principal of Sunshine, Bryan Mattis, is a "victim of the terrain". Any further activities on the Ridge, to the south of these blocks will undoubtedly produce more irreparable damage.

The irreparable damage currently exhibited is due to the fact that the culverting was grossly inadequate and, along with the cutblocks and poor inside ditches, in shallow non-cohesive soils, will undoubtedly result in increased sedimentation, that will eventually find its way into the Slokan River.

Yours Truly

Dr. A. Salway, P.Geo.  
IHP Ltd.

APPENDIX 1

AERIAL SURVEY PHOTOGRAPHS 1 TO 10

APPENDIX 2

GROUND SURVEY PHOTOGRAPHS 1 TO 17

APPENDIX 3  
MAP SECTIONS