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Stability of G.F. Rawson's Property - Penguin.

Mr. Rawson's building block is part of the Lyndhurst sub-division on the outskirts of Penguin. The access road to this sub-division runs north from Sun Dial Road over the western end of an east-west trending ridge. The block is situated almost on top of the ridge but the front part of it slopes towards Ironcliffs road at  $10^{\circ}$  to  $15^{\circ}$ .

The geological sequence in this district consists of a basement of Cambrian breccia and Ordovician conglomerate which is overlain by Tertiary basalt flows with interbedded sand and grit. Mr. Rawson's block is underlain by deeply weathered basalt overlying the lowermost beds of Tertiary sand. A higher sand bed occurs on the eastern end of the ridge.

Slumping has occurred south of Dooley Street, on the north side of the ridge about 10 chains to the East of the property where the slopes are somewhat steeper. Further and more extensive movements have also occurred further to the East. However the area surrounding Mr. Rawson's building block appears to have remained quite stable for a long period and no evidence of landslides could be detected nearby. No signs of groundwater seepages or springs were found in the vicinity of the proposed building site.

From a geological point of view therefore the evidence is that this block of land appears to be stable and constitutes a quite reasonable building risk.

However, it would be advisable to keep the amount of excavation to a minimum and to trim all cuts back to a stable batter.

No stormwater or other drainage should be disposed of underground.

This report refers solely to the stability of Mr. Rawson's building block and should not be interpreted as indicating the stability or otherwise of any of the surrounding property.

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