



Avalon

Industrial Services Ltd



high / difficult access - consultancy - contracting - training

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s 7(2)(f)(ii)

Mauao Flood Damage; Remedial slope stabilisation on 4wd track

During our site investigation of the 25th & 26th May following the heavy rain we noted a slip approximately 50m² in area between the two 4wd track levels on the tight switchback.

This slip has been identified as number 46 and although not a particularly major slip it is recommended that some stabilisation works be carried out.

The proposed work will mitigate the possibility of further slippage which could block access to the summit, which would be inconvenient and relatively expensive to rectify. The aim is to reduce further erosion from the upper track foundation and secure the integrity and stability of the 4wd track.

We note the material from the slip has been reformed as far as possible by your earthworks contractors. This is a good course of action given the engineering properties of this particular material, so long as it can be secured in its present location before further erosion occurs.

To this end we propose the installation of a conformed Maccaferri mesh secured top and bottom with galvanised wire rope. This wire rope would be dowelled at 2m intervals with 1.5mx25mm galvanised Reid bar. All seams would be stitched in accordance with manufacturer's instructions.

Under this mesh would be a re vegetation blanket (Biomac) overlaid with light gauge galvanised mesh (chicken wire).

The mesh would be conformed to the shape of the slope using the same 1.5mx25mm Reid bar in a 1m diamond grid pattern driven as soil nails.

The mesh would be secured to the nails and secured to the slope face with galvanised plates and nuts. Specific details of exact procedures and specifications can be produced on request. This design has been successfully employed on many similar sites.

Our price to carry out the above works (design, supply and install) would be \$11,600 + gst. Lead time for materials will be approximately 1 week.

If you would like us to go ahead and order materials or have any queries regarding this proposal please give me a call.

Regards

s 7(2)(a) Privacy