

## Reference Project

### Geotechnical – Rock Fall Protection

Location: Glenmore Street, Wellington

Date: June 2009

Client: Wellington City Council

Consultant: GHD

Glenmore Street is a busy access road between Kelburn and the western suburbs. The two lanes include a bus lane with trolley wires. This contract involved the installation of Maccaferri Steel Grid BO 150 Rock Fall Protection nets on to the cliffs immediately above the bus lane. The design was by GHD, Wellington.

The site is an old cutting and the rock is compact greywacke, moderately weathered. The site had a 50mm layer of shotcrete, poorly adhered and fractured. The intention of the design was to stabilise the existing shotcrete as well as the underlying greywacke. Continual traffic management was required on this busy section of road.

The steel grid required 70 1.5m deep rock bolts on a 1.5m grid as well as 4m deep anchors along the top. A mixture of Reid bar and R32 hollow bar drill systems was utilised to cope with the variable nature of the ground.

The project was given a maximum of 12 working days to complete, which was achieved using up to three drill teams.



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