



COMPANY DIRECTOR, NEIL MCHUGH, IS A QUALIFIED ENGINEERING GEOLOGIST (BA. MSC. OXFORD) WHO, SINCE GRADUATING IN 1987, HAS GAINED EXTENSIVE GEOTECHNICAL EXPERIENCE WORKING ON THE STAFF OF CONSULTING ENGINEERS AND GEOTECHNICAL CONTRACTORS IN THE UK AND NZ.

AVALON specialises in slope stability investigation and remediation in high and difficult access locations, including hazard and risk assessments. We carry professional indemnity insurance and offer a full consultancy service including interpretative reports and remedial designs. Our specialist abilities and knowledge are frequently drawn on by other consulting engineers for assistance with investigation and remedial contract specification.

// COLLABORATION

Our site teams include a number of geotechnically trained staff and AVALON regularly works closely with many of New Zealand's major consulting engineers, local authorities, Damwatch, IGNS and other specialists.

We have systems and procedures which allow us to get our clients representative into most locations, using rope access, under our safety control. This enables our clients to fully meet HSE Act, OSH compliance and insurance obligations whilst allowing them to safely inspect slopes and rock faces at close range.

// SITE INVESTIGATION

AVALON accesses high and difficult sites using industrial rope access techniques. We provide a fast response throughout New Zealand and investigation is often combined with emergency rock scaling.

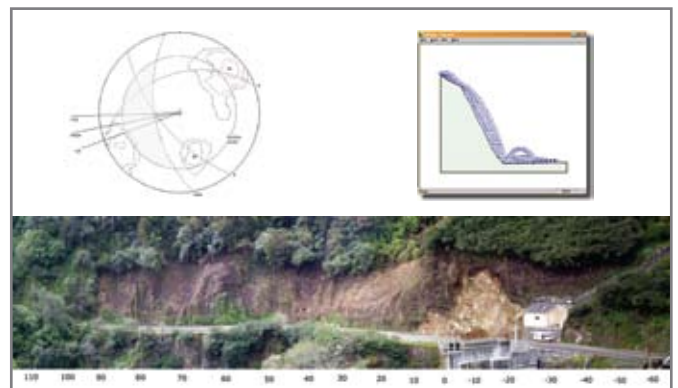
Stability Reconnaissance

Topographic Survey / Discontinuity Survey

Engineering Geological Mapping



ABOVE. Block stability investigation.



ABOVE. Investigation for slip remediation.

// REMEDIATION DESIGN

We have a depth of practical experience, designing active and passive slope stabilisation solutions. AVALON take advantage of the most recent product and design software developments.

Shotcrete	Erosion Control Geotextiles
Soil Nailing	Rockbolts and Dowels
Block Strapping	Draped Rockfall Netting
Drainage Measures	Rockfall Catch Fences
Retaining Structures	Active Rock Meshing
Rock Scaling	

// HAZARD AND RISK ASSESSMENT

AVALON undertakes detailed rockfall and landslip hazard and risk assessments.

Hazard Assessment

Quantitative Risk Assessment

Risk Evaluation

Management and Treatment Strategies