

ANDREW FRANCIS SHIRLEY

Civil & Geotechnical Engineer [Director]

QUALIFICATIONS & AFFILIATIONS

B.E.(Hons.) University of Sydney, 1963. Fellow, Engineers Australia.
Member, Australian Geomechanics Society.
President, College of Investigative & Remedial Consulting Engineers.
Registered Specialist Professional Civil Engineer No. 477861.
Registered Professional Engineer [Queensland] No. 4904.
Member & Engineers Australia representative on Standards Australia Committee No. CE32 on Earth Retaining Structures.
RTA accredited slope stability assessor.

AREAS OF EXPERTISE

Andrew Shirley has extensive experience in both Civil Construction, and Civil & Geotechnical Engineering, and has developed special expertise in the following fields:

Forensic Engineering Investigations	Reactive Soils & Damaged Buildings
Geotechnical & Ground Engineering	Residential Building in Hillside Areas
Excavations, Retaining Walls & Basements	Stormwater & Subsoil Drainage Systems
Slope Stability, Landslide Control & Landslide Risk Assessment	Non-urban Area Effluent Disposal Systems & Stormwater Harvesting
Landfill Remediation, Parks, Environmental and Coastal Hazard Management	Mine Infrastructure & Mine Subsidence
Reinforced Soil, Anchors & Rock Bolts	Tunnels & Pipe Jacks
Urban Planning, Subdivisions & Hazard Identification	Earth & Rockfill Dams; Farm Dams.

The first six years of Andrew's professional experience was gained on various construction projects in the NSW Snowy Mountains region and in Western Australia. On return to Sydney, Andrew joined a Sydney consulting firm and was responsible for the development and management of the firm's geotechnical section and materials testing laboratory.

Andrew established the practice of Shirley Consulting Engineers in 1974 [originally called Andrew Shirley & Associates Pty Limited] to provide an integrated source of advice in the Civil Engineering and Geological disciplines, together with design and construction services for ground structures.

Andrew has developed and been granted patents in advanced excavation support systems [viz: Integrated Support System] and a method of treating harvested stormwater known as the StormSaver System.

Whilst the firm initially focussed on slope stability issues & site investigations, in 1982 the engineering base was broadened to embrace the full design and construction review of civil and geotechnical engineering projects, including excavations, embankments, landslip stabilisation, tunnels, shafts, drainage works, etc. More recently, the firm has become well known for its forensic services, investigations & reports associated with a variety of legal & insurance investigations.

Andrew also regularly presents seminars / lectures on relevant topics to Local Councils, technical / professional groups, Engineers Australia and CIRCEA. In addition, Andrew has provided evidence for, and attended court to give expert evidence in a variety of court jurisdictions including the Supreme, District & Local Courts of NSW, the Coroner's Court of NSW, the Supreme Courts of Victoria & QLD and the Industrial Relations Court of NSW.