

Geotechnical Engineering

Tonkin & Taylor's recognised skills in geotechnical engineering are a central component through which the consultancy's services have grown.

T&T has a large team of highly experienced engineering geologists and geotechnical engineers who are supported by a suite of design software and field testing equipment. The range of geotechnical services offered continues to expand to meet the increasing complexity of projects.

Expertise

T&T has worked throughout New Zealand, South East Asia and the Pacific region for over 40 years.

The geotechnical services provided covers a diverse range, with involvement in many projects from the initial concept right through to investigation, design and construction.

Being a specialist consultant means that we are often working closely with many other consultants and contractors as part of a wider team.

T&T can tailor expertise to meet specific geotechnical requirements including:

- Foundation design
- Retention of cut slopes
- Basement excavations and groundwater
- Earthworks and specifications

- Numerical modelling
- Pavement assessment and design
- Settlement analysis
- Seismic hazard evaluations
- Slope stability and assessment
- Slope remediation design
- Instrumentation and monitoring
- Aggregate and materials evaluation
- Dam foundations
- Peer review and expert testimony.

Experience

Recent examples include:

- SH1 Northern Gateway (Albany to Puhoi)
- SH1 - Mercer to Longswamp 4 laning
- Sylvia Park Shopping Complex
- Westfield Albany
- Vector Tunnel
- Hobson Sewer Tunnel
- Multi anchored walls up to 24 m high - Queenstown
- Auckland Hospital
- Hewletts Road Flyover - Tauranga
- High cut slopes - Huntly open cast mines.

