

Geotechnical Desktop Assessment

T+T Empirical Desktop Assessment, TEDA[®]

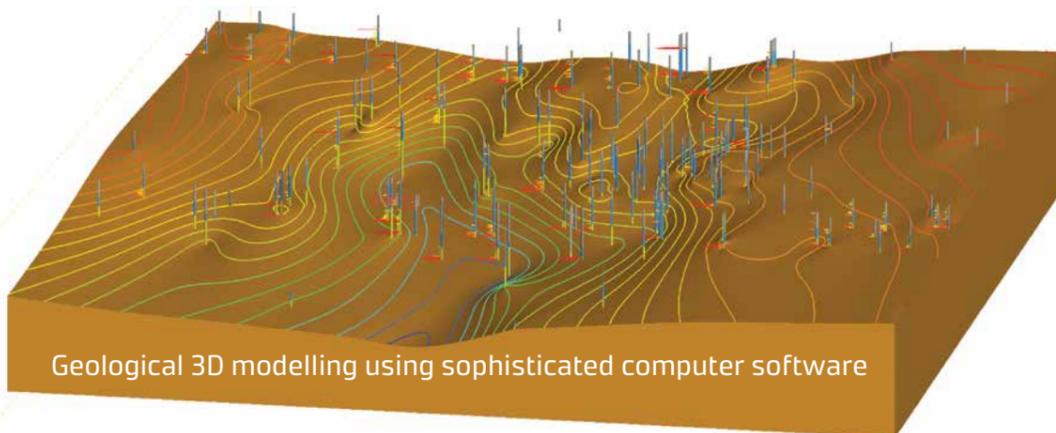
T+T can advance your project during the COVID-19 period when it may not be possible to carry out project-specific investigations. Our advanced desktop assessment, backed by our extensive project and borehole database, can progress your project to Resource Consent submission stage. This will reduce delays and possible cost overruns.

Six ways to minimise project delays during the COVID-19 period:

- 1 Carry out an advanced desktop assessment, providing designers with information required to support preliminary design.
- 2 Progress preliminary design to analyse best, worst and probable design scenarios to understand risks to your project at an early stage.
- 3 Submit your Resource Consent application based on the preliminary design and beat the queues at Council.*
- 4 Carry out costing based on the preliminary design to inform commercial decisions.
- 5 Be 'shovel-ready' - we can plan site investigation programmes now, helping you be ready to go as soon as restrictions are lifted.
- 6 Prepare health and safety protocols - we have developed specialist protocols to enable site work during the COVID-19 period.

* Council is likely to require project-specific investigations, either at S92 stage for Resource Consent or prior to the Building Consent stage

Talk to your T+T client contact today to discuss how we can help move your projects forward.



Geological 3D modelling using sophisticated computer software

Your project can rely upon our collected knowledge, including:

Borehole and laboratory testing database: We have access to 60 years' worth of test data across New Zealand.

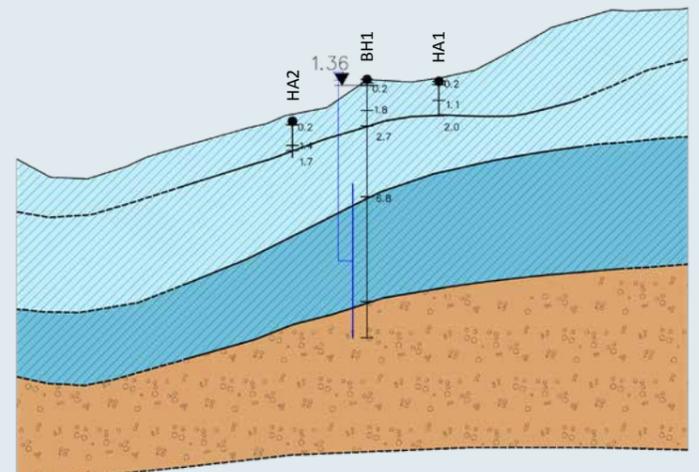
Foundation design: We have established foundation design parameters for different geological units and foundation types. These are developed using empirical data from our database.

Retention design: Our experts can assist you with design of many retention systems, including secant piles, deep soil mixing, sheetpiles, diaphragm walls and geo-grid reinforced embankments.

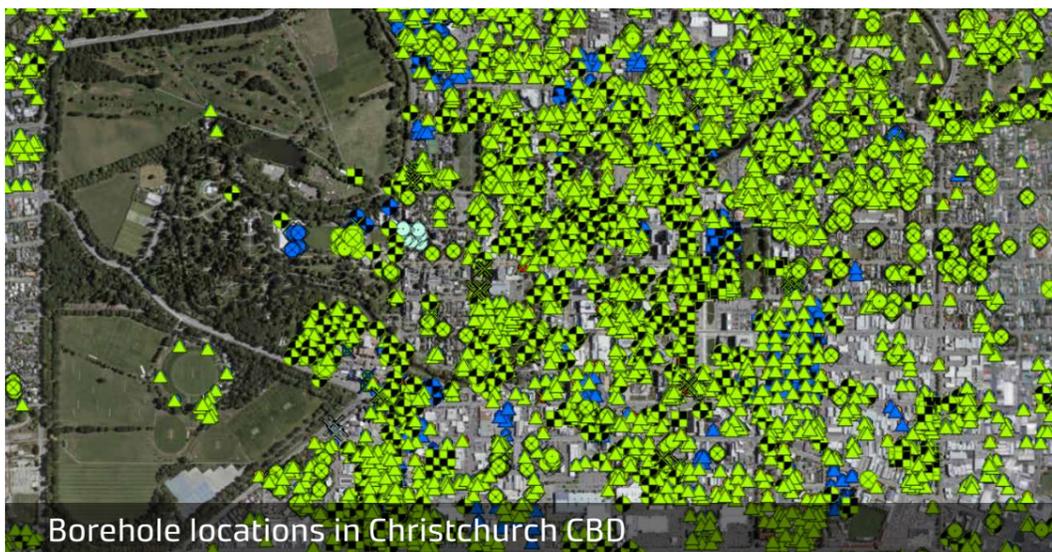
Slope stability design: Our geologists undergo an internal training program to become specialists at assessing slope instability risks. We are recognised experts in remediation of landslides. T+T deal with landslides that affect anything from a single property to whole subdivisions as well as difficult sites such as cliff-top properties.

Liquefaction design: Following the Christchurch Earthquake series, our experts are recognised and widely published internationally in the earthquake engineering field.

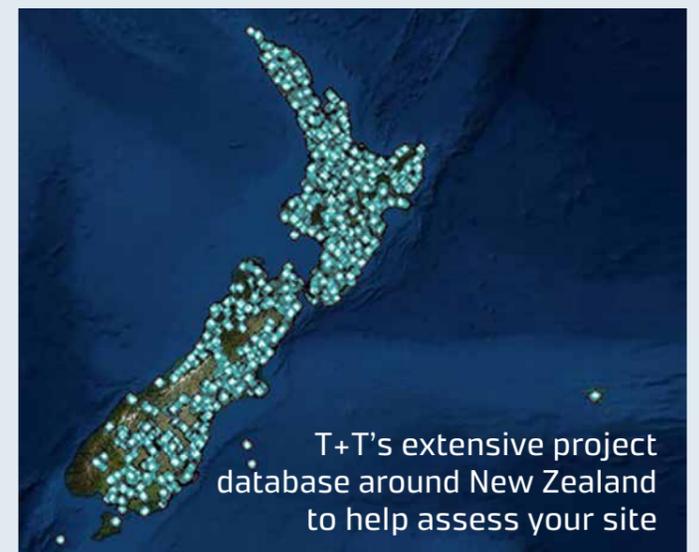
Groundwater design: Projects where the groundwater level is intersected require a specific resource consent. T+T understand the implications of this for your project and we can identify possible issues and solutions at an early stage.



Typical geological 2D model



Borehole locations in Christchurch CBD



T+T's extensive project database around New Zealand to help assess your site

Decision process

