



Tonkin & Taylor

Hydroelectric Power Scheme, Wairau, NZ

Client

TrustPower.

Project

The project involved geotechnical assessment and civil design for the feasibility and consenting on 50 km of new canal and six power stations.

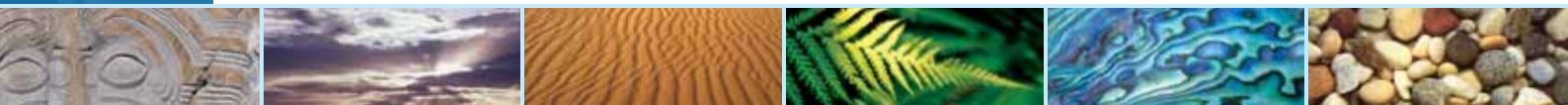
Services provided

- Geotechnical assessment for scheme corridor
- Stability risk assessment
- Fault location, assessment seismic risk and mitigation (canals cross active Alpine Fault 9 times)
- Canal, embankment and earthworks design
- Groundwater inflow and drawdown assessment
- Assessment of quarry and borrow sources
- Civil design including refining the scheme alignment
- Stakeholder consultation
- Presentation of expert evidence - geotechnical, fault location and seismic response and civil.

Notable advances included providing geotechnical investigation data to the design team on a daily basis. This allowed the alignment to be developed concurrently saving months in the design process.



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