New Zealand

CAPABILITY STATEMENT
Renowned for technical excellence, Golder, a member of WSP, is a leading global specialised engineering and consulting organisation with over 60 years of successful service to its clients.

By joining forces with WSP in 2021, Golder is now part of a 14,000-person strong earth and environment practice, providing engineering, remediation, regulatory & compliance, design and environmental services on projects that span all seven continents.

Our professionals are driven by a passion to deliver results, offering unique specialised skills to address the ever-evolving challenges that earth, environment, and energy present to clients across the infrastructure, mining, oil & gas, manufacturing and power sectors.
Operating in New Zealand since 2000, we bring a wealth of local knowledge and experience to our clients’ projects, as well as an enthusiastic and energetic approach to all that we do.

We apply our talent for innovative problem solving to a wide range of infrastructure, building, ground improvement, transportation and mining projects, where we address our clients’ needs for geotechnical and contamination expertise, from site investigation, to design and construction, utilising the latest digital engineering tools.

From renewable energy to the waste, manufacturing, defence and resource sectors, we are working on environmental assessments, remediation, regulatory compliance, landfill design, permitting and environmental compliance to create resilient and sustainable outcomes aligned to our clients’ vision.

Our technical strengths are complemented by strong focus on putting our clients front and centre. We understand our clients’ commercial realities and help them meet their strategic goals through our work. As a winner of 32 Client Choice Awards, our client focus has been consistently recognised over many years.

Today, we have a team of experts working across offices in the North and South islands, ready to thrive on the challenges of your next project.
Benefits of working with Golder

A member of WSP

As part of the WSP global network, Golder can offer multidisciplinary services across all market sectors including Transportation & Infrastructure, Property & Buildings, Earth & Environment, Mining & Power and Water. We can also provide strategic advisory, engagement and digital services. With approximately 54,000 talented people in 550 offices across 40 countries, of which 6,100 are located in Australia and New Zealand, we are uniquely positioned to deliver successful and sustainable projects that are future ready, wherever our clients need us.

Our commitment to sustainability

Golder is committed to promoting sustainable communities and responsible development by embedding the principles of sustainability into project planning, design, execution, and operation, and by delivering products and services for sustainable development. Moreover, we are committed to conducting our business and operations in a manner that has a positive impact on the communities in which we live and work. Our sustainability relies on using resources prudently, reducing our environmental footprint, and supporting a better quality of life for people around the world.

Our commitment to HSSE

At Golder we care about the health and safety of our people, our business partners and contractors, and our clients. Caring is quite simply at the core of our culture. We make it a priority every hour of the day to ensure our people are working and living in a way that keeps them, their families and their communities safe and healthy. We extend this caring to our contractors, vendors and clients in every project we undertake.
Services

Geotechnical consulting
- Geohazard assessment and analysis services: seismic, slope instability, erosion, coastal, volcanic, geotechnical, and hydrological hazards. Includes risk assessment/analysis and/or design of mitigation measures on some projects.
- Geophysics: surface and downhole geophysical investigations which can map subsurface material properties.
- Geotechnical engineering services: subsurface investigations (e.g., boreholes, testing pitting, DCP’s and CPT’s), assessments, analysis and design (e.g., foundations, ground improvement, retaining walls, cut slopes, engineered fill, mine highwalls, rockfall mitigation).
- Review of geotechnical engineering assessment, analysis and design (including issuing Producer Statement documentation as required).
- Site management services: observation, supervision and inspection of site works by contractors and issuing Producer Statement documentation as required. Includes engineer-to-contract or similar roles on some projects.

Asbestos advice
- Asbestos building material surveys; management, refurbishment and demolition.
- Asbestos management plans.
- Licensed and unlicensed asbestos removal air monitoring.
- Licensed and unlicensed asbestos removal clearance inspections and certification.
- Asbestos-containing settled dust assessments.
- Asbestos-containing soil assessments, remediation action plans and site validation.
- Asbestos related professional services (e.g., documentation reviews and expert witness services).

Mine design and engineering
- Exploration planning.
- Geological modelling.
- Resource and Reserve modelling and reporting.
- Geo-statistics.
- Environmental Liability Modelling.
- Mining Due Diligence.
- Feasibility Studies.
- Mine Design and Scheduling.
- Pit Optimisation.
- Quarry Design.
- Equipment Selection.
- Mining Cost Estimation and Cashflow Analysis.
- Mine Rehabilitation and Closure Planning.

Ground improvement construction
- Application of rammed aggregate piers, load transfer platforms and other solutions.
- CPT analysis.
- Producer Statement documentation.
Environmental planning and approvals
- Policy and development planning: resource consent plan change applications, submission preparation and expert evidence preparation and presentation; preparation of guidance notes and industry Codes of Practice, and environmental auditing
- Community engagement: consultation plan preparation and planning for community engagement; attendance at community engagement sessions and consultation with statutory approval agencies, stakeholders and iwi groups
- Comprehensive environmental due diligence (EDD) assessments and environmental auditing

Water management
- Groundwater resource investigations, groundwater quality investigations and numerical modelling, managed aquifer recharge (MAR) projects
- Aquifer testing, water supply well design, effects assessments and modelling for irrigation, industrial and public water supply projects, watershed yield modelling, permitting
- Effects assessments, long term and compliance monitoring, contaminant transport and fate modelling for wastewater disposal to land projects, landfills and contaminated sites, groundwater investigation and remediation
- Site dewatering and depressurisation design, in-situ hydraulic testing, groundwater inflow assessments, monitoring and assessments of effects for mines, quarries, infrastructure and tunnelling projects
- Stormwater management and mine water management (preliminary economic assessments, baselines, environmental impact assessments, pre-feasibility and feasibility studies as well as detailed design)

Water balance analyses, climate statistical analyses, high flow and low flow analyses, design of hydraulic structures, hydrology and hydraulic modelling and the elaboration of surface water management plans.

Air quality
- Contaminant emission calculation
- Air dispersion modelling (CALPUFF, AUSPLUME)
- Meteorological modelling (TAPM, CALMET)
- Strategic advice to private and public sector clients and technical assistance to Golder’s environmental team
- Preparation of air quality assessments for dust, odour and other air discharges
- Expert evidence preparation and presentation.

Contamination
- Site Investigation (including Preliminary Site Investigations and Detailed Site Investigations)
- Data collection and analysis
- Management of legacy and liability issues associated with operational and closed sites
- Groundwater monitoring and assessment
- Consent compliance monitoring
- Closure investigations and assessments
- Remediation design, planning and oversight
- Site supervision
- Peer review of reports on behalf of regulatory agencies
- Supervision of remediation programmes including overseeing soil excavation and disposal, stormwater and groundwater treatment and disposal, and compliance monitoring.
Projects

Rockfall Mitigation & Slope Stabilisation for an Earthquake-Damaged, Cliffside Road
Client – Christchurch City Council
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Decontamination of Rare Heritage Vehicles Affected by Asbestos Dust
Client – Museum of Transport and Technology Auckland (MOTAT)
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Due Diligence for a Large New Zealand-Based Waste Management Company
Client – Confidential
➤ READ MORE

Managed Aquifer Recharge Can Maximize Groundwater Storage
Client – Canterbury Regional Council
➤ READ MORE
We thrive on challenges

golder.com

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