



COMMERCIAL TECHNICAL CAPABILITY

GEOTECHNICAL SITE INVESTIGATION CAPABILITY

Commercial, industrial, subdivision and civil investigations planned around the proposed development and the decisions the design team must make.

ADELAIDE + SOUTH AUSTRALIA | ENGINEER-LED

Capability flyer
August 2026

COMMERCIAL | INDUSTRIAL | SUBDIVISION | CIVIL



ILLUSTRATIVE FIELD CAPABILITY

Equipment and specialist providers are confirmed for each commissioned investigation.

Test the ground for the decision, not a generic report template

Investigation planning and reporting are developed with reference to AS 1726:2017 and relevant Australian field and laboratory test methods. The method combination must suit the structure, geology, access and project risk.

DESIGN QUESTION	FIELD EVIDENCE	ENGINEERING OUTPUT
● FOUNDATIONS	Mechanical boreholes, sampling, SPT and CPT/CPTu where appropriate.	Ground model, founding levels, bearing parameters and settlement considerations.
● SOFT + VARIABLE GROUND	CPTu, push-tube sampling, vane or consolidation testing and groundwater observations as required.	Compressibility, time response, negative skin-friction risk and improvement pathways.
● SUBGRADE + EARTHWORKS	DCP, shallow investigation, test pits, sampling, classification and CBR testing.	Subgrade variability, earthworks controls, platform inputs and construction hold points.
● PAVEMENT CONDITION	Pavement coring, material sampling, DCP, FWD and visual condition data.	Layer condition, deflection response, weak areas and rehabilitation or overlay inputs.
● REACTIVE SOILS	Targeted sampling, classification and soil reactivity testing.	Shrink-swell and heave assessment, moisture sensitivity and foundation considerations.
● GROUNDWATER + EXCAVATION	Drilling observations, monitoring wells and repeat measurements where the question requires them.	Groundwater conditions, excavation risk, temporary works inputs and construction response.

THE SCOPING RULE

Select the investigation method that closes the design uncertainty. More testing is not automatically better; the evidence must be relevant, traceable and proportionate to consequence.

Turn investigation evidence into usable design inputs

A geotechnical report should connect the encountered conditions to the actual structure, foundation options, settlement, earthworks and construction risks.



ILLUSTRATIVE CPT / CPTU FIELD CAPABILITY

Specialist plant and provider availability confirmed per project.

TYPICAL REPORT OUTPUTS

- Interpreted geological and geotechnical ground model
- Allowable and ultimate bearing parameters where applicable
- Total and differential settlement considerations
- Soil reactivity, shrink-swell and heave assessment
- Shallow and deep foundation design inputs where supported
- Subgrade, earthworks, excavation and groundwater recommendations

PLAN

01

Structure, loads, footprint, investigation depths, access, utility information and site controls.

INVESTIGATE

02

Drilling, sampling, SPT, CPT/CPTu, DCP, groundwater and laboratory testing selected to suit.

INTERPRET

03

Integrate the profile, variability, groundwater and test response into a defensible ground model.

REPORT

04

Issue parameters, recommendations, limitations, hold points and supplementary work where needed.

PROJECT FIT

COMMERCIAL + INDUSTRIAL

Warehouses, factories, heavy slabs, plant and operating facilities.

SUBDIVISION + CIVIL

Roads, platforms, services, earthworks and retaining structures.

MULTISTOREY + SIGNIFICANT

Apartments and larger structures scoped to the concept and consequence.

SOFT-GROUND SITES

Compressible soils, variable fill, reactive clays and settlement-led decisions.

CLEAR RESPONSIBILITY

Kontain provides geotechnical design parameters and recommendations. The structural engineer remains responsible for structural footing and foundation design. Complex or high-consequence scopes may require supplementary specialists and peer review.

COMMERCIAL GROUND INVESTIGATION. CLEAR DESIGN INPUTS.

One line of sight from the proposed development to a proportionate field scope, defensible ground model and practical report.



01

BRIEF

Site plan, proposed structure, loads, levels, basements and programme

02

SCOPE

Locations, depths, methods, laboratories, access and site controls

03

FIELD

Specialist providers, engineering logging, samples and traceable test data

04

REPORT

Ground model, design parameters, recommendations, limits and hold points

SCOPE BOUNDARIES

- Individual residential site classifications and soil tests are not currently offered.
- Engineering rock coring and rock-mass logging are outside the direct service scope.
- Practical drilling refusal is reported as refusal, not automatically as confirmed bedrock.
- Contaminated-land and environmental assessment are separate specialist scopes.
- CPT/CPTu, FWD and other specialist services are confirmed at quotation.

START WITH THE SITE PLAN AND PROPOSED STRUCTURE

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Commercial | Industrial | Subdivision | Civil