



# **Statewide Laboratories Pty Ltd**

*Soil, Rock & Earthwork Testing*

## **LABORATORY TESTING**

### **SCOPE & TEST METHODS**

#### SOIL TESTING

- Moisture Contents - (AS 1289.2.1.1)
- Liquid Limit - (AS 1289.3.1.1)
- Plastic Limit - (AS 1289.3.2.1)
- Plasticity Index - (AS 1289.3.3.1)
- Linear Shrinkage - (AS 1289.3.4.1)
- Soil Particle Density - (AS 1289.3.5.1)
- Particle Size Distribution (Sieve Analysis) - (AS 1289.3.6.1)
- Particle Size Distribution (Hydrometer Analysis) - (AS 1289.3.6.3)
- Emerson Class Number - (AS 1289.3.8.1)
- Percent Dispersion - (AS 1289.3.8.2)
- Standard Compaction - (AS 1289.5.1.1)
- Modified Compaction - (AS 1289.5.2.1)
- California Bearing Ratio (CBR) - (AS 1289.6.1.1)
- Direct Shear Test - (AS 1289.6.2.2)
- Triaxial Test (Unconsolidated Undrained) - (AS 1289.6.4.1)
- One-Dimensional Consolidation Test - (AS 1289.6.6.1)
- Shrink-Swell Index - (AS 1289.7.1.1)
- Unconfined Compressive Strength – (ASTM D2166/D2166M)
- Thermal Resistivity (Needle Probe Method) – (ASTM D5334)

#### ROCK TESTING

- Moisture Content – (AS 4133.1.1.1)
- Porosity & Dry Density - (AS 4133.2.1.1)
- Point Load Index - (AS 4133.4.1)
- Uniaxial Compressive Strength – (AS 4133.4.2.1, AS 4133.4.2.2)
- Thermal Resistivity (Needle Probe Method) – (ASTM D5334)