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47C Kenepuru Drive, Porirua, Wellington, 5022 www.geocivil.co.nz					
Authorised Representative Martin Adams General Manager 166 Bank Street Regent Whangarei 0112 New Zealand Programme Mechanical Testing Laboratory Accreditation Number 1482					
Initial Accreditation Date 1 May 2025					
Conformance Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories					
Laboratory Services Summary <table style="width: 100%;"> <tr> <td style="width: 15%;">4.01</td> <td>Aggregates</td> </tr> <tr> <td>4.08</td> <td>Soils</td> </tr> </table>		4.01	Aggregates	4.08	Soils
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Key Technical Personnel <table style="width: 100%;"> <tr> <td style="width: 40%;">Gavin Bromfield</td> <td>4.01, 4.08</td> </tr> <tr> <td>Matthew Morgan</td> <td>4.01 (selected), 4.08</td> </tr> </table>		Gavin Bromfield	4.01, 4.08	Matthew Morgan	4.01 (selected), 4.08
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Operations Manager Authorisation:		Issue 3	Date: 24/09/26	Page 1 of 3
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Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1482

4.01 Aggregates

The following tests in accordance with NZS 3111:1986

Section 5 Sampling aggregate

The following tests in accordance with NZS 4407:2015 - Section 2

Methods of Sampling Road Aggregates

The following tests in accordance with NZS 4407:2015 - Section 3

Methods of Testing Road Aggregates – Laboratory Tests

- 3.1 The water content of aggregate
- 3.2 The cone penetration limit
- 3.3 The plastic limit
- 3.4 The plasticity index
- 3.5 The clay index
- 3.6 The sand equivalent
- 3.7 The solid density of aggregate particles
- 3.7.1 Pycnometer method for particles passing the 19.0 mm test sieve
- 3.8 Particle size distribution
 - 3.8.1 Preferred method by wet sieving
 - 3.8.2 Subsidiary method by dry sieving
- 3.9 The cleanness value of coarse aggregates
- 3.10 The crushing resistance of coarse aggregate under a specified load
- 3.11 The weathering quality index of coarse aggregate
- 3.14 The broken faces content of aggregate
- 3.15 The California bearing ratio (CBR)

The following tests in accordance with NZS 4407:2015 - Section 4

Methods of Testing Road Aggregates – Field Tests

- 4.2 The field water content and field dry density of compacted materials
– method using a nuclear moisture-density gauge – direct transmission
- 4.3 The field water content and field dry density of compacted materials
– method using a nuclear moisture-density gauge – backscatter mode

The following tests in accordance with other methods specified

AS 1141.22:2019 Wet/dry strength variation

NZTA T20 Ethylene Glycol Accelerated Weathering Test

Operations Manager
Authorisation:

Issue 3

Date: 24/09/26

Page 2 of 3



Geocivil Ltd
Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 1482

4.08 Soils

The following tests in accordance with NZS 4402:1986

Soil Classification tests

Test 2.1	Determination of the water content
Test 2.2	Determination of the liquid limit
Test 2.3	Determination of the plastic limit
Test 2.4	Determination of the plasticity index
Test 2.5	Determination of the cone penetration limit
Test 2.6	Determination of the linear shrinkage
2.7	Determination of the solid density of soil particles
Test 2.7.1	Method for coarse, medium and fine soils
Test 2.7.2	Method for medium and fine soils
2.8	Determination of the particle-size distribution
Test 2.8.1	Standard method by wet sieving
Test 2.8.2	Subsidiary method by dry sieving

Soil Compaction tests

4.1	Determination of the dry density/water content relationship
Test 4.1.1	NZ standard compaction test
Test 4.1.2	NZ heavy compaction test
Test 4.1.3	NZ vibrating hammer compaction test

The following tests in accordance with NZS 4402:1988

Soil Strength tests

6.1	Determination of the California Bearing Ratio (CBR)
Test 6.1.1	Standard laboratory method for remoulded specimens
6.5	Determination of the penetration resistance of a soil
Test 6.5.2	Hand method using a dynamic cone penetrometer

The following tests in accordance with ASTM Standards

D5874	Impact Value (IV) of a Soil
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The following tests in accordance with other methods specified

DIN 18134	Soil – Testing procedures and testing equipment – Plate load test
NZGS Guideline for hand held shear vane test - 2001	Vane shear strength of a cohesive soil using hand held shear vane

Operations Manager
Authorisation:

Issue 3

Date: 24/09/26

Page 3 of 3