

Material Test Report



Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd

Sunshine Coast Laboratory

1/28 Kessling Avenue Kunda Park QLD 4556

Phone: (07) 5351 0400

Fax: (07) 5351 0499

Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Martin Cook
Assistant Laboratory Manager
NATA Accredited Laboratory Number: 828

Report Number: 677071.00-3
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Project Details Corrected
Date Issued: 28/01/2020
Client: Roberts Bros
 123 Cooroy Belli Creek Road, Cooroy 4563
Contact: John Roberts
Project Number: 677071.00
Project Name: Proposed Subdivision
Project Location: The Grange, McIntosh Stage 2, McIntosh Creek
Work Request: 8187
Date Sampled: 21/01/2020
Dates Tested: 22/01/2020 - 22/01/2020
Sampling Method: AS1289 1.2.1 6.4 - Sampling from layers in earthworks or pavement - uncompacted/compacted
Specification: Minimum 95% Standard Hilf Density Ratio
Material Source: Onsite

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | | | |
|--|---------------|---------------|---------------|---------------|------------|
| Sample Number | SS-8187A | SS-8187B | SS-8187C | SS-8187D | SS-8187E |
| Date Tested | 21/01/2020 | 21/01/2020 | 21/01/2020 | 21/01/2020 | 21/01/2020 |
| Time Tested | 13:05 | 13:15 | 13:25 | 13:35 | 13:45 |
| Test Request #/Location | Lot 19 | Lot 16 | Lot 16 | Lot 15 | Lot 15 |
| Easting | 464102 | 464103 | 464096 | 464122 | 464136 |
| Northing | 7095629 | 7095688 | 7095665 | 7095706 | 7095713 |
| Elevation (m) | 0.5 < F.L. | 0.8 < F.L. | F.L. | 0.8 < F.L. | 0.2 < F.L. |
| Soil Description | Gravelly Clay | Gravelly Clay | Gravelly Clay | Gravelly Clay | Sandy Clay |
| Test Depth (mm) | 150 | 150 | 150 | 150 | 150 |
| Sieve used to determine oversize (mm) | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Percentage of Wet Oversize (%) | 4.6 | 7.3 | 4.6 | 3.7 | 0.0 |
| Field Wet Density (FWD) t/m ³ | 1.98 | 1.99 | 2.09 | 2.01 | 1.83 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | ** | ** | ** | ** | 1.92 |
| Adjusted Peak Converted Wet Density t/m ³ | 2.07 | 2.02 | 2.02 | 1.96 | ** |
| Moisture Variation (Wv) % | ** | ** | ** | ** | 2.5 |
| Adjusted Moisture Variation % | 2.0 | 3.0 | 3.0 | 2.5 | ** |
| Hilf Density Ratio (%) | 95.5 | 98.5 | 103.5 | 102.0 | 95.5 |
| Compaction Method | Standard | Standard | Standard | Standard | Standard |

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC