

# Material Test Report



**LABORATORIES**

Gympie Laboratory  
1 Dennis Little Drive Glanmire QLD 4570

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**Report Number:** GSGY-GLN-25-293-7  
**Issue Number:** 1  
**Date Issued:** 29/09/2025  
**Client:** ROBERTS BROS PTY LTD  
PO BOX 247, COOROY QLD 4563  
**Contact:** PHIL ROBERTS  
**Project Number:** GSGY-GLN-25-293  
**Project Name:** GREENDALE STAGE 7  
**Project Location:** LOT 99 ON SP345311 (#95) MOOLOO ROAD, PIE CREEK  
**Work Request:** 5819  
**Dates Tested:** 08/09/2025 - 12/09/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** Minimum 95% Hlf Density Ratio  
**Location:** Greendale Stage 7 - Lot 18 - Level 1 Supervision  
**Lot Number:** 18  
**Material:** Embankment Fill  
**Material Source:** Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Cameron Crawford  
General Manager

NATA Accredited Laboratory Number: 20956

| Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1     |                  |                  |                  |                   |                   |
|------------------------------------------------------|------------------|------------------|------------------|-------------------|-------------------|
| Sample Number                                        | G5819A           | G5819B           | G5819C           | G5819D            | G5819E            |
| Date Tested                                          | 08/09/2025       | 08/09/2025       | 08/09/2025       | 11/09/2025        | 11/09/2025        |
| Time Tested                                          | 12:10            | 12:15            | 12:20            | 14:10             | 14:15             |
| Test Request #/Location                              | 8/9/25<br>Lot 18 | 8/9/25<br>Lot 18 | 8/9/25<br>Lot 18 | 11/9/25<br>Lot 18 | 11/9/25<br>Lot 18 |
| Easting                                              | 462613.08        | 462607.46        | 462601.18        | 462613.53         | 462622.98         |
| Northing                                             | 7096387.74       | 7096399.63       | 7096406.14       | 7096421.32        | 7096426.61        |
| Elevation (m)                                        | 68.53            | 68.71            | 68.92            | 68.89             | 69.12             |
| Layer / Reduced Level                                | Embankment Fill  | Embankment Fill  | Embankment Fill  | Embankment Fill   | Embankment Fill   |
| Thickness of Layer (mm)                              | 300              | 300              | 300              | 300               | 300               |
| Soil Description                                     | Embankment Fill  | Embankment Fill  | Embankment Fill  | Embankment Fill   | Embankment Fill   |
| Test Depth (mm)                                      | 275              | 275              | 275              | 275               | 275               |
| Sieve used to determine oversize (mm)                | 19.0             | 19.0             | 19.0             | 19.0              | 19.0              |
| Percentage of Wet Oversize (%)                       | **               | **               | **               | **                | **                |
| Field Wet Density (FWD) t/m <sup>3</sup>             | 2.01             | 2.04             | 2.03             | 2.02              | 2.02              |
| Field Moisture Content %                             | 16.1             | 16.9             | 18.6             | 21.3              | 22.6              |
| Field Dry Density (FDD) t/m <sup>3</sup>             | 1.73             | 1.74             | 1.71             | 1.67              | 1.64              |
| Peak Converted Wet Density t/m <sup>3</sup>          | 1.98             | 1.97             | 1.98             | 1.97              | 1.94              |
| Adjusted Peak Converted Wet Density t/m <sup>3</sup> | **               | **               | **               | **                | **                |
| Moisture Variation (Wv) %                            | 2.0              | 2.0              | 2.0              | 2.0               | 1.5               |
| Adjusted Moisture Variation %                        | **               | **               | **               | **                | **                |
| Hlf Density Ratio (%)                                | <b>101.5</b>     | <b>103.5</b>     | <b>102.5</b>     | <b>102.5</b>      | <b>104.0</b>      |
| Compaction Method                                    | <b>Standard</b>  | <b>Standard</b>  | <b>Standard</b>  | <b>Standard</b>   | <b>Standard</b>   |
| Remarks                                              | **               | **               | **               | **                | **                |

## Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

# Material Test Report



**LABORATORIES**

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*BCaulley*

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

NATA Accredited Laboratory Number: 20956

**Report Number:** GSGY-GLN-25-293-16  
**Issue Number:** 1  
**Date Issued:** 16/12/2025  
**Client:** ROBERTS BROS PTY LTD  
PO BOX 247, COOROY QLD 4563  
**Contact:** PHIL ROBERTS  
**Project Number:** GSGY-GLN-25-293  
**Project Name:** GREENDALE STAGE 7  
**Project Location:** LOT 99 ON SP345311 (#95) MOOLOO ROAD, PIE CREEK  
**Work Request:** 6406  
**Date Sampled:** 04/12/2025  
**Dates Tested:** 04/12/2025 - 05/12/2025  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Preparation Method:** AS 1289.1.1 - Sampling and Preparation of Soils  
**Specification:** Minimum 95% Hilt Density Ratio  
**Location:** Greendale Stage 7 - Lot 18 - Level 1 Supervision  
**Lot Number:** 18  
**Material:** Embankment Fill  
**Material Source:** Onsite

| Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1     |                 |                 |                 |
|------------------------------------------------------|-----------------|-----------------|-----------------|
| Sample Number                                        | G6406A          | G6406B          | G6406C          |
| Date Tested                                          | 04/12/2025      | 04/12/2025      | 04/12/2025      |
| Time Tested                                          | 09:30           | 09:35           | 09:45           |
| Test Request #/Location                              | Lot 18          | Lot 18          | Lot 18          |
| Easting                                              | 462616.40       | 462597.23       | 462576.38       |
| Northing                                             | 7096413.73      | 7096420.09      | 7096411.39      |
| Elevation (m)                                        | 70.18           | 69.75           | 69.41           |
| Layer / Reduced Level                                | Embankment Fill | Embankment Fill | Embankment Fill |
| Thickness of Layer (mm)                              | 300             | 300             | 300             |
| Soil Description                                     | Embankment Fill | Embankment Fill | Embankment Fill |
| Test Depth (mm)                                      | 275             | 275             | 275             |
| Sieve used to determine oversize (mm)                | 19.0            | 19.0            | 19.0            |
| Percentage of Wet Oversize (%)                       | **              | **              | **              |
| Field Wet Density (FWD) t/m <sup>3</sup>             | 2.06            | 2.07            | 2.09            |
| Field Moisture Content %                             | 18.6            | 21.3            | 19.8            |
| Field Dry Density (FDD) t/m <sup>3</sup>             | 1.73            | 1.71            | 1.74            |
| Peak Converted Wet Density t/m <sup>3</sup>          | 2.05            | 2.09            | 2.09            |
| Adjusted Peak Converted Wet Density t/m <sup>3</sup> | **              | **              | **              |
| Moisture Variation (Wv) %                            | 1.5             | 0.0             | -0.5            |
| Adjusted Moisture Variation %                        | **              | **              | **              |
| Hilt Density Ratio (%)                               | 100.0           | 99.0            | 100.0           |
| Compaction Method                                    | Standard        | Standard        | Standard        |
| Remarks                                              | **              | **              | **              |

## Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC