

Material Test Report



LABORATORIES

Gympie Laboratory
1 Dennis Little Drive Glanmire QLD 4570

Phone: (07) 4128 3213

Email: ben.caulley@gsglabs.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



BCaulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-32
Issue Number: 1
Date Issued: 17/02/2026
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: 6611
Dates Tested: 05/02/2026 - 09/02/2026
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 - Level 1 Supervision - Lot 26
Lot Number: 26
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G6611A	G6611B	G6611C	G6611D
Date Tested	04/02/2026	04/02/2026	04/02/2026	04/02/2026
Time Tested	08:25	08:30	08:40	08:45
Test Request #/Location	Lot 26	Lot 26	Lot 26	Lot 26
Easting	462697.436	462699.969	462716.265	462718.279
Northing	7096387.973	7096369.545	7096373.183	7096383.905
Elevation (m)	70.268	69.65	70.110	69.701
Layer / Reduced Level	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Thickness of Layer (mm)	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.98	1.93	1.98	2.02
Field Moisture Content %	21.1	20.4	21.4	21.2
Field Dry Density (FDD) t/m ³	1.64	1.60	1.63	1.67
Peak Converted Wet Density t/m ³	2.05	2.03	2.06	2.06
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	-0.5	-1.0	-1.5	-1.5
Adjusted Moisture Variation %	**	**	**	**
Hlf Density Ratio (%)	97.0	95.0	96.0	98.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

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B. Caulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-32
Issue Number: 1
Date Issued: 17/02/2026
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: 6611
Dates Tested: 05/02/2026 - 09/02/2026
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 - Level 1 Supervision - Lot 26
Lot Number: 26
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G6611E	G6611F	G6611G	G6611H
Date Tested	04/02/2026	05/02/2026	05/02/2026	05/02/2026
Time Tested	08:55	09:00	09:10	09:15
Test Request #/Location	Lot 26	Lot 26	Lot 26	Lot 26
Easting	462666.293	462682.696	462689.288	462695.415
Northing	7096361.534	7096382.612	7096367.552	7096386.618
Elevation (m)	69.834	71.112	70.985	71.005
Layer / Reduced Level	Embankment Fill	Embankment fill	Embankment fill	Embankment fill
Thickness of Layer (mm)	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	13	**	**
Field Wet Density (FWD) t/m ³	2.06	2.02	2.01	2.08
Field Moisture Content %	21.6	16.7	18.9	18.7
Field Dry Density (FDD) t/m ³	1.69	1.73	1.69	1.75
Peak Converted Wet Density t/m ³	2.05	**	2.00	2.00
Adjusted Peak Converted Wet Density t/m ³	**	2.05	**	**
Moisture Variation (Wv) %	-1.5	**	1.5	1.0
Adjusted Moisture Variation %	**	2.0	**	**
Hlf Density Ratio (%)	100.0	98.5	100.5	104.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

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Approved Signatory: Nathan Boyle

gt-nathan_boyle

Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-24
Issue Number: 1
Date Issued: 29/01/2026
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: 6549
Date Sampled: 27/01/2026
Dates Tested: 27/01/2026 - 28/01/2026
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 - Level 1 Supervision - Lot 26
Lot Number: 26
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6549A	G6549B	G6549C	G6549D	G6549E
Date Tested	27/01/2026	27/01/2026	27/01/2026	27/01/2026	27/01/2026
Time Tested	14:00	14:10	14:15	14:25	14:30
Test Request #/Location	Lot 26	Lot 26	Lot 26	Lot 26	Lot 26
Easting	462681.40	462685.37	462691.46	462693.16	462702.49
Northing	7096377.71	7096381.66	7096375.61	7096369.18	7096371.59
Elevation (m)	69.50	69.24	69.40	69.38	69.26
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 (%)	**	0	0	0	**
Field Wet Density (FWD) t/m ³	2.12	2.18	2.12	2.10	2.14
Field Moisture Content %	13.7	12.4	12.7	14.2	13.0
Field Dry Density (FDD) t/m ³	1.87	1.94	1.88	1.84	1.89
Peak Converted Wet Density t/m ³	2.04	2.11	2.03	2.08	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	2.0	2.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hlf Density Ratio (%)	104.0	103.5	104.5	101.0	101.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC