

Material Test Report



LABORATORIES

Gympie Laboratory
1 Dennis Little Drive Glanmire QLD 4570

Phone: (07) 4128 3213

Email: cameron@gsglabs.com.au

Report Number: GSGY-GLN-25-293-18
Issue Number: 1
Date Issued: 18/12/2025
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: 6428
Date Sampled: 05/12/2025
Dates Tested: 05/12/2025 - 17/12/2025
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% Hilf Density Ratio
Location: Greendale Stage 7 - Lot 28 - Level 1 Supervision
Lot Number: 28
Material: Embankment Fill
Material Source: Onsite



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Cameron Crawford
General Manager

Laboratory Number: 20956

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6428A	G6428B	G6428C	G6428D	G6428E
Date Tested	05/12/2025	05/12/2025	05/12/2025	05/12/2025	09/12/2025
Time Tested	13:40	13:45	13:50	13:55	09:10
Test Request #/Location	Lot 28	Lot 28	Lot 28	Lot 28	Lot 28
Easting	462688.66	462702.92	462722.75	462696.35	462694.28
Northing	7096475.91	7096491.01	7096477.50	7096483.99	7096475.91
Elevation (m)	69.22	69.29	69.24	69.26	69.86
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 ³	2.06	2.13	2.07	2.13	2.09
Field Moisture Content %	17.5	17.3	19.0	17.3	17.7
Field Dry Density (FDD) t/m ³	1.75	1.81	1.74	1.82	1.78
Peak Converted Wet Density t/m ³	2.02	2.00	2.00	2.08	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	1.5	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	102.0	106.0	103.5	102.5	103.5
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

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6428F	G6428G	G6428H	G6428I	G6428J
Date Tested	09/12/2025	10/12/2025	10/12/2025	10/12/2025	10/12/2025
Time Tested	09:15	14:10	14:15	14:20	14:30
Test Request #/Location	Lot 28	Lot 28	Lot 28	Lot 28	Lot 28
Easting	462718.27	462726.29	462720.35	462698.40	462693.41
Northing	7096486.05	7096475.75	7096494.78	7096471.64	7096489.26
Elevation (m)	69.61	69.88	69.98	70.11	70.22
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 (%)	11	**	0	0	**
Field Wet Density (FWD) t/m ³	2.12	2.07	2.13	2.05	2.02
Field Moisture Content %	17.7	23.0	19.4	23.7	19.4
Field Dry Density (FDD) t/m ³	1.80	1.68	1.78	1.66	1.69
Peak Converted Wet Density t/m ³	**	1.99	1.99	2.00	1.98
Adjusted Peak Converted Wet Density t/m ³	2.02	**	**	**	**
Moisture Variation (Wv) %	**	1.5	2.0	1.0	1.5
Adjusted Moisture Variation %	1.0	**	**	**	**
Hlf Density Ratio (%)	105.0	103.5	107.0	102.5	102.0
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