

Material Test Report



LABORATORIES

Gympie Laboratory

1 Dennis Little Drive Glanmire QLD 4570

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Nathan Boyle

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Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-23
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: 6510
Date Sampled: 22/01/2026
Dates Tested: 22/01/2026 - 23/01/2026
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 25
Lot Number: 25
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6510A	G6510B	G6510C	G6510D	G6510E
Date Tested	20/01/2026	20/01/2026	20/01/2026	20/01/2026	20/01/2026
Time Tested	13:05	13:10	13:20	13:25	13:35
Test Request #/Location	Lot 25	Lot 25	Lot 25	Lot 25	Lot 25
Easting	462690.06	462702.17	462678.44	462666.01	462670.24
Northing	7096348.51	7096334.02	7096333.51	7096347.53	7096336.99
Elevation (m)	70.05	69.63	70.08	70.31	70.03
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 (%)	**	10	4	7	11
Field Wet Density (FWD) t/m ³	2.06	2.12	2.04	2.14	2.11
Field Moisture Content %	14.4	12.8	14.7	13.7	13.4
Field Dry Density (FDD) t/m ³	1.80	1.88	1.78	1.88	1.86
Peak Converted Wet Density t/m ³	2.08	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	**	2.15	2.04	2.07	2.16
Moisture Variation (Wv) %	1.0	**	**	**	**
Adjusted Moisture Variation %	**	1.0	2.0	2.0	1.0
Hlf Density Ratio (%)	99.0	99.0	100.0	103.5	98.0
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

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Lot Number: 25
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6510F	G6510G	G6510H	G6510I	G6510J
Date Tested	22/01/2026	22/01/2026	22/01/2026	22/01/2026	22/01/2026
Time Tested	14:00	14:05	14:10	14:20	14:25
Test Request #/Location	Lot 25	Lot 25	Lot 25	Lot 25	Lot 25
Easting	462663.92	462696.14	462685.49	462671.19	462702.13
Northing	7096322.11	7096316.23	7096330.64	7096344.71	7096344.13
Elevation (m)	70.87	70.31	70.59	70.82	70.56
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 (%)	10	10	**	**	**
Field Wet Density (FWD) t/m ³	2.07	2.11	2.18	2.17	2.09
Field Moisture Content %	11.3	12.8	12.2	12.0	12.0
Field Dry Density (FDD) t/m ³	1.86	1.87	1.94	1.94	1.86
Peak Converted Wet Density t/m ³	**	**	2.10	2.10	2.09
Adjusted Peak Converted Wet Density t/m ³	2.13	2.12	**	**	**
Moisture Variation (Wv) %	**	**	2.0	2.0	2.0
Adjusted Moisture Variation %	1.5	2.0	**	**	**
Hlf Density Ratio (%)	97.5	99.5	104.0	103.5	100.0
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