

Material Test Report



LABORATORIES

Gympie Laboratory
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Accredited for compliance with ISO/IEC 17025 - Testing



BCaulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

NATA Accredited Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-14
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: 6396
Date Sampled: 02/12/2025
Dates Tested: 03/12/2025 - 09/12/2025
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% Hlf Density Ratio
Location: Greendale Stage 7 - Lot 20 - Level 1 Supervision
Lot Number: 20
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6396A	G6396B	G6396C	G6396D	G6396E
Date Tested	02/12/2025	02/12/2025	02/12/2025	02/12/2025	03/12/2025
Time Tested	15:05	15:10	15:15	15:20	14:00
Test Request #/Location	Lot 20	Lot 20	Lot 20	Lot 20	Lot 20
Easting	462594.21	462601.42	462621.21	462634.27	462621.04
Northing	7096490.71	7096516.24	7096492.06	7096507.78	7096498.95
Elevation (m)	68.32	68.38	68.54	68.74	63.67
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
Field Wet Density (FWD) t/m ³	1.97	2.04	2.02	2.03	1.96
Field Moisture Content %	16.7	19.3	21.1	19.9	18.8
Field Dry Density (FDD) t/m ³	1.69	1.71	1.67	1.70	1.65
Peak Converted Wet Density t/m ³	2.00	2.01	1.98	2.00	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 %	**	**	**	**	**
Hlf Density Ratio (%)	98.5	101.5	102.0	101.5	97.0
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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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6396F	G6396G	G6396H	G6396I	
Date Tested	03/12/2025	04/12/2025	04/12/2025	04/12/2025	
Time Tested	14:05	10:20	10:25	10:35	
Test Request #/Location	Lot 20	Lot 20	Lot 20	Lot 20	
Easting	462595.04	462595.14	462612.13	462627.81	
Northing	7096507.20	7096507.80	7096504.87	7096500.94	
Elevation (m)	63.47	68.93	69.09	69.32	
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 (%)	0	**	**	**	
Field Wet Density (FWD) t/m ³	2.00	2.11	2.09	2.04	
Field Moisture Content %	18.0	20.0	19.3	20.7	
Field Dry Density (FDD) t/m ³	1.69	1.76	1.75	1.69	
Peak Converted Wet Density t/m ³	2.01	2.09	2.09	2.11	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	1.5	-0.5	-1.0	-1.0	
Adjusted Moisture Variation %	**	**	**	**	
Hlf Density Ratio (%)	99.5	101.0	100.0	96.5	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

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