Material Test Report

Douglas Partners
Geotechnics / Environment / Groundwater

Douglas Partners Pty Ltd
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Report Number:	**212940.00-13**
Issue Number:	1
Date Issued:	14/09/2022
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy QLD 4563
Contact:	David Roberts
Project Number:	212940.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 6, Pie Creek QLD
Work Request:	19397
Date Sampled:	18/08/2022
Dates Tested:	18/08/2022 - 26/08/2022
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Location:	Bulk Earthworks
Material Source:	Onsite

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Shae Harry
Laboratory Manager
Laboratory Accreditation Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-19397A	SS-19397B	SS-19397C	SS-19397D
Date Tested	18/08/2022	18/08/2022	18/08/2022	18/08/2022
Time Tested	09:02	09:12	09:21	09:28
Test Request #/Location	Bulk Earthworks Lot 137	Bulk Earthworks Lot 137	Bulk Earthworks Lot 137	Bulk Earthworks Lot 137
Easting	461959	461955	4641953	461949
Northing	7096109	7096107	7096112	7096112
Elevation (m)	1.2 < F.L	0.8 < F.L	0.4 < F.L	F.L
Thickness of Layer (mm)	150	150	150	150
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	150	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	10	11
Field Wet Density (FWD) t/m^3	2.06	2.11	2.15	2.17
Field Dry Density (FDD) t/m^3	**	**	**	**
Peak Converted Wet Density t/m^3	1.93	2.02	**	**
Adjusted Peak Converted Wet Density t/m^3	**	**	2.04	2.12
Moisture Variation (Wv) %	1.0	-0.5	**	**
Adjusted Moisture Variation %	**	**	3.5	1.5
Hilf Density Ratio (%)	**106.5**	**104.5**	**105.5**	**102.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number:	**212940.00-11**
Issue Number:	1
Date Issued:	24/08/2022
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy QLD 4563
Contact:	David Roberts
Project Number:	212940.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 6, Pie Creek QLD
Work Request:	19311
Date Sampled:	15/08/2022
Dates Tested:	15/08/2022 - 22/08/2022
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Location:	Bulk Earthworks
Lot Number:	137
Material Source:	Onsite

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Martin Cook
Assistant Laboratory Manager
Laboratory Accreditation Number: 828

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	SS-19311A	SS-19311B	
Date Tested	15/08/2022	15/08/2022	
Time Tested	10:43	10:52	
Test Request #/Location	Lot 137	Lot 137	
Easting	461942	461951	
Northing	7096118	7096118	
Elevation (m)	1.7 < F.L	2.0 < F.L	
Thickness of Layer (mm)	150	150	
Soil Description	Gravelly Clay	Gravelly Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	6	5	
Field Wet Density (FWD) t/m^3	2.06	2.07	
Field Dry Density (FDD) t/m^3	**	**	
Peak Converted Wet Density t/m^3	**	**	
Adjusted Peak Converted Wet Density t/m^3	2.01	2.04	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	1.0	2.0	
Hilf Density Ratio (%)	**103.0**	**101.5**	
Compaction Method	**Standard**	**Standard**	
Report Remarks	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC