

Material Test Report



Report Number: GSGY-GLN-24-175-20
Issue Number: 1
Date Issued: 04/07/2024
Client: ROBERTS BROS PTY LTD
 PO BOX 247, COOROY QLD 4563
Contact: DAVID ROBERTS
Project Number: GSGY-GLN-24-175
Project Name: Oakridge Estate
Project Location: LOT 9 ON RP224705 & LOT 8 ON RP218636,
 GLASTONBURY ROAD, NAHRUNDA
Work Request: 3368
Dates Tested: 13/05/2024 - 24/06/2024
Location: Oakridge Estate - Level 1 Supervision - Lot 8

Geotechnical Services (Gympie) Pty Ltd
 1 Dennis Little Drive Glanmire QLD 4570
 Phone: (07) 4128 3213

Email: jake.davey@geotechnicalservices.com.au

Accredited for compliance with ISO/IEC 17025 - Testing




 Approved Signatory: Jake Davey
 Laboratory Manager

NATA Accredited Laboratory Number: 21185

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G3368A	G3368B	G3368C	G3368D	G3368E
Date Tested	07/05/2024	07/05/2024	07/05/2024	07/05/2024	08/05/2024
Time Tested	10:31	10:32	11:09	14:09	11:42
Test Request #/Location	Lot 8	Lot 8	Lot 8	Lot 8	Lot 8
Easting	462009.92	461998.21	461979.96	461974.78	461978.11
Northing	7101768.33	7101769.62	7101741.53	7101728.87	7101712.64
Elevation (m)	58.2	58.17	57.98	58.29	59.15
Layer / Reduced Level	-4.12	-1.59	-2.41	-0.637	-3.154
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Onsite Fill	Onsite Fill	Onsite Fill	Onsite Fill	Onsite 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 (%)	16	18	17	10	6
Field Wet Density (FWD) t/m ³	2.09	2.23	2.19	2.12	2.15
Field Moisture Content %	21.1	18.1	17.7	17.9	18.6
Field Dry Density (FDD) t/m ³	1.72	1.89	1.86	1.80	1.81
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.10	2.25	2.24	2.21	2.15
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	99.5	99.0	98.0	96.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC
 Negative values = test is wet of OMC

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Laboratory Manager

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G3368F	G3368G	G3368H	G3368I	G3368J
Date Tested	08/05/2024	08/05/2024	09/05/2024	09/05/2024	10/05/2024
Time Tested	11:43	11:46	11:05	11:15	12:10
Test Request #/Location	Lot 8	Lot 8	Lot 8	Lot 8	Lot 8
Easting	461985.22	461992.82	461986.72	461999.38	461998.495
Northing	7101725.174	7101737.67	7101715.55	7101734.99	7101743.867
Elevation (m)	59.19	59.17	59.53	59.56	59.967
Layer / Reduced Level	-3.153	-3.212	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Onsite Fill	Onsite Fill	Onsite Fill	Onsite Fill	Onsite 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	16	6	2	0
Field Wet Density (FWD) t/m ³	2.19	2.11	2.24	2.21	2.07
Field Moisture Content %	21.4	25.3	14.6	24.2	27.7
Field Dry Density (FDD) t/m ³	1.80	1.68	1.96	1.78	1.62
Peak Converted Wet Density t/m ³	**	**	**	**	2.02
Adjusted Peak Converted Wet Density t/m ³	2.09	2.11	2.25	2.07	**
Moisture Variation (Wv) %	**	**	**	**	0.0
Adjusted Moisture Variation %	0.5	0.0	-0.5	-0.5	**
Hilf Density Ratio (%)	104.5	99.5	99.5	106.5	102.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G3368K	G3368L	G3368M	G3368N	G3368O
Date Tested	13/05/2024	13/05/2024	14/05/2024	14/05/2024	15/05/2024
Time Tested	12:43	12:47	10:40	10:45	10:35
Test Request #/Location	Lot 8	Lot 8	Lot 8	Lot 8	Lot 8
Easting	462002.93	461991.80	461999.01	462001	462013.52
Northing	7101757.19	7101735.58	7101749.53	7101714.72	7101756.36
Elevation (m)	60.27	60.28	60.68	61.15	61.14
Layer / Reduced Level	-2.091	-2.090	**	**	**
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Onsite Fill	Onsite Fill	Onsite Fill	Onsite Fill	Onsite 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 (%)	18	19	17	14	4
Field Wet Density (FWD) t/m ³	2.29	2.28	2.21	2.23	2.11
Field Moisture Content %	16.8	17.9	13.4	10.8	19.3
Field Dry Density (FDD) t/m ³	1.96	1.93	1.95	2.01	1.77
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.26	2.23	2.20	2.25	2.15
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	-0.5	0.5	2.0	0.0
Hilf Density Ratio (%)	101.0	102.5	100.0	99.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

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Sample Number	G3368P	G3368Q	G3368R	G3368S	G3368T
Date Tested	15/05/2024	20/05/2024	23/05/2024	23/05/2024	23/05/2024
Time Tested	10:40	13:46	13:25	13:30	13:35
Test Request #/Location	Lot 8	Lot 8	Lot 8	Lot 8	Lot 8
Easting	461993.90	461992.028	461993.94	461998.72	462014.72
Northing	7101711.38	7101732.419	7101718.65	7101739.39	7101756.01
Elevation (m)	61.47	61.792	61.93	62.25	62.25
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Onsite Fill	Onsite Fill	Onsite Fill	Onsite Fill	Onsite 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 (%)	9	4	0	0	2
Field Wet Density (FWD) t/m ³	2.17	2.07	2.06	2.09	2.07
Field Moisture Content %	18.2	23.0	24.5	22.8	24.0
Field Dry Density (FDD) t/m ³	1.83	1.68	1.66	1.70	1.67
Peak Converted Wet Density t/m ³	**	**	1.95	1.94	**
Adjusted Peak Converted Wet Density t/m ³	2.17	2.03	**	**	1.98
Moisture Variation (Wv) %	**	**	0.0	0.0	**
Adjusted Moisture Variation %	0.0	0.0	**	**	0.0
Hilf Density Ratio (%)	100.0	102.0	106.0	107.5	104.5
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

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