

Material Test Report

Report Number: P19123-1
Issue Number: 1
Date Issued: 24/01/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 849
Date Sampled: 21/01/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard



Geotechnical Testing Services (Southern)
 Ballarat Soil and Concrete Testing Laboratory
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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Milne
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	D19-849A	D19-849B	D19-849C	D19-849D
Date Tested	21/01/2019	21/01/2019	21/01/2019	21/01/2019
Time Tested	14:49	14:52	15:08	15:11
Test Request #/Location	House Lots 1224	House Lots 1224	House Lots 1225	House Lots 1224
Easting	54H 744796	54H 744871	54H 744881	54H 74491
Northing	5840856	5840859	5840875	5840836
Elevation (m)	300mm BFSL	600mmBFSL	300mm BFSL	600mm BFSL
Thickness of Layer (mm)	200	200	200	200
Soil Description	Brown silty clay	Brown silty clay	Brown silty clay	Brown silty clay
Test Depth (mm)	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.13	2.20	2.29	2.08
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	1.89	2.14	1.97	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	5.0	3.0	5.0	3.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	112.5	103.0	116.0	102.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P19123-2
Issue Number: 1
Date Issued: 29/01/2019
Client: Integra Land
Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 857
Date Sampled: 23/01/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Material Source: Test Location



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Bryan Mott

Approved Signatory: Bryan Mott
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	D19-857A	D19-857B
Date Tested	23/01/2019	23/01/2019
Time Tested	11:00	11:05
Test Request #/Location	House Lot 1223	House Lot 1223
Easting	54H 744785	54H 744780
Northing	5840871	5840873
Elevation (m)	600mm BFSL	300mm BFSL
Layer / Reduced Level	Filling	Filling
Thickness of Layer (mm)	200	200
Soil Description	Yellow Brown Sandy Clay	Red Brown Sandy Clay
Test Depth (mm)	175	175
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	**
Field Wet Density (FWD) t/m ³	1.93	2.17
Field Dry Density (FDD) t/m ³	**	**
Peak Converted Wet Density t/m ³	1.96	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**
Moisture Variation (Wv) %	5.0	5.5
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	98.5	112.5
Compaction Method	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P19123-3
Issue Number: 1
Date Issued: 04/02/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 867
Date Sampled: 25/01/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard



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Approved Signatory: Bryan Mott
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	D19-867A	D19-867B	D19-867C	D19-867D	D19-867E	D19-867F
Date Tested	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019
Time Tested	09:55	09:59	10:10	10:19	10:22	10:24
Test Request #/Location	House Lot No 1222	House Lot No 1222	Messenger Parade	Messenger Parade	Messenger Parade	Messenger Parade
Easting	54H 744780	54H 744786	54H 744769	54H 744777	54H 744813	54H 744812
Northing	5840890	5840893	5840682	5840679	5840679	5840683
Elevation (m)	600mm BFSL	300mm BFSL	Subgrade	Subgrade	Subgrade	Subgrade
Layer / Reduced Level	**	**	**	**	**	**
Thickness of Layer (mm)	200	200	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
Test Depth (mm)	175	175	125	125	125	125
Oversize (wet basis) %	0	0	0	0	0	0
Oversize (dry basis) %	0	0	0	0	0	0
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Field Wet Density t/m ³	1.62	2.08	2.16	2.00	2.06	2.11
Field Moisture Content %	12.6	14.9	12.2	10.9	11.6	12.6
Field Dry Density t/m ³	1.44	1.81	1.93	1.80	1.84	1.87
Maximum Dry Density t/m ³	1.68	1.64	1.72	1.73	1.74	1.68
Adjusted Maximum Dry Density t/m ³	**	**	**	**	**	**
Optimum Moisture Content (OMC) %	17.0	19.5	19.0	16.0	16.0	17.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Moisture Variation %	4.5	4.5	6.5	5.5	4.5	4.5
Moisture Ratio %	74.5	77.0	65.0	67.5	72.0	73.0
Density Ratio %	85.5	110.5	112.0	104.5	106.0	111.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report



Report Number: P19123-4
Issue Number: 1
Date Issued: 19/02/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 921
Date Sampled: 14/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

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Approved Signatory: Josh Lagodzki
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	D19-921A	D19-921B	D19-921C	D19-921E	D19-921F	D19-921G
Date Tested	14/02/2019	14/02/2019	14/02/2019	14/02/2019	14/02/2019	14/02/2019
Time Tested	14:37	14:38	14:42	15:02	15:06	14:15
Test Request #/Location	House Lot 1220	House Lot 1220	House Lot 1220	House Lot 1222	House Lot 1222	House Lot 1221
Easting	54H 744795	54H 744793	54H 744787	54H 744797	54H 744794	54H 744815
Northing	5840913	5840905	5840906	5840884	5840883	5840917
Elevation (m)	FSL	300mm BFSL	600mm BFSL	300mm BFSL	600mm BFSL	FSL
Layer / Reduced Level	Filling	Filling	Filling	Filling	Filling	Filling
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay
Test Depth (mm)	175	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.01	2.06	1.90	2.02	1.93	2.02
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	1.84	1.89	1.84	1.85	1.89	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	3.5	5.5	0.5	6.0	5.5	4.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	109.5	109.0	103.5	109.0	102.0	109.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: P19123-4
Issue Number: 1
Date Issued: 19/02/2019
Client: Integra Land
Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 921
Date Sampled: 14/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location



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Approved Signatory: Josh Lagodzki
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	D19-921H	D19-921I
Date Tested	14/02/2019	14/02/2019
Time Tested	14:17	14:18
Test Request #/Location	House Lot 1221	House Lot 1221
Easting	54H 744813	54H 744809
Northing	5840917	5840912
Elevation (m)	300mm BFSL	600mm BFSL
Layer / Reduced Level	Filling	Filling
Thickness of Layer (mm)	200	200
Soil Description	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay
Test Depth (mm)	175	175
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m ³	1.91	1.87
Field Dry Density (FDD) t/m ³	**	**
Peak Converted Wet Density t/m ³	1.85	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**
Moisture Variation (Wv) %	3.5	0.5
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	103.5	99.0
Compaction Method	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P19123-4
Issue Number: 1
Date Issued: 19/02/2019
Client: Integra Land
Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 921
Date Sampled: 14/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	D19-921D
Date Tested	14/02/2019
Time Tested	15:00
Test Request #/Location	House Lot 1222
Easting	54H 744799
Northing	5840892
Elevation (m)	FSL
Layer / Reduced Level	Filling
Thickness of Layer (mm)	200
Soil Description	Mottled Orange, Brown Clay
Test Depth (mm)	175
Oversize (wet basis) %	0
Oversize (dry basis) %	0
Fraction Tested (mm)	19.0
Field Wet Density t/m ³	1.99
Field Moisture Content %	16.2
Field Dry Density t/m ³	1.71
Maximum Dry Density t/m ³	1.66
Adjusted Maximum Dry Density t/m ³	**
Optimum Moisture Content (OMC) %	21.5
Adjusted Optimum Moisture Content (OMC) %	**
Moisture Variation %	5.5
Moisture Ratio %	75.5
Density Ratio %	103.0
Compaction Method	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: P19123-5
Issue Number: 1
Date Issued: 28/02/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 942
Date Sampled: 18/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard CDR
Site Selection: Selected by Client
Material Source: Test Location



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Approved Signatory: Bryan Mott
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	D19-942A	D19-942B	D19-942C	D19-942D	D19-942E	D19-942F
Date Tested	18/02/2019	18/02/2019	18/02/2019	18/02/2019	18/02/2019	18/02/2019
Time Tested	12:43	12:52	13:13	13:15	13:27	13:28
Test Request #/Location	House Lot 1210	House Lot 1210	House Lot 1211	House Lot 1211	House Lot 1212	House Lot 1212
Easting	54H 744832	54H 744832	54H 744836	54H 744839	54H 744839	54H 744p838
Northing	744832	5840847	5840865	5840866	5840880	5840882
Elevation (m)	FSL	300mm BFSL	FSL	300mm BFSL	FSL	300mm BFSL
Layer / Reduced Level	Filling	Filling	Filling	Filling	Filling	Filling
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay
Test Depth (mm)	175	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	2.03	1.95	1.99	2.06	2.04	2.08
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	1.85	1.83	1.84	2.03	1.82	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	3.5	2.0	3.5	1.5	5.0	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	110.0	106.5	108.5	101.5	112.0	105.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report



Report Number: P19123-5
Issue Number: 1
Date Issued: 28/02/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350

Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 942
Date Sampled: 18/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard CDR
Site Selection: Selected by Client
Material Source: Test Location

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Approved Signatory: Bryan Mott
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	D19-942G	D19-942H	D19-942I	D19-942J
Date Tested	18/02/2019	18/02/2019	18/02/2019	18/02/2019
Time Tested	13:40	13:43	13:53	13:55
Test Request #/Location	House Lot 1213	House Lot 1213	House Lot 1214	House Lot 1214
Easting	54H 744836	54H 744838	54H 744841	54H 744842
Northing	5840894	5840897	5840911	5840911
Elevation (m)	FSL	300mm BFSL	FSL	300mm BFSL
Layer / Reduced Level	Filling	Filling	Filling	Filling
Thickness of Layer (mm)	200	200	200	200
Soil Description	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay	Mottled Orange, Brown Clay
Test Depth (mm)	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.99	1.97	2.01	1.92
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	1.89	1.96	1.91	1.80
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	3.0	2.0	3.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	105.0	100.5	105.0	106.5
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: P19123-6
Issue Number: 1
Date Issued: 28/02/2019
Client: Integra Land
 Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 948
Date Sampled: 20/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Material Source: Test Location



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Approved Signatory: Bryan Mott

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	D19-948A	D19-948B	D19-948C	D19-948D	D19-948E	D19-948F
Date Tested	21/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019	21/02/2019
Time Tested	08:07	08:18	08:38	08:40	08:56	08:57
Test Request #/Location	House Lot 1200	House Lot 1201	House Lot 1202	House Lot 1202	House Lot 1203	House Lot 1203
Easting	54H 744880	54H 744880	54H 744881	54H 744876	54H 744851	54H 744849
Northing	5840848	5840855	5840882	5840869	5840893	5840804
Elevation (m)	FSL	FSL	FSL	300mm BFSL	FSL	300mm BFSL
Layer / Reduced Level	Filling	Filling	Filling	Filling	Filling	Filling
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Orange Brown Silty clay	Orange Brown Silty clay	Orange Brown Silty clay	Orange Brown Silty clay	Orange Brown Silty clay	Orange Brown Silty clay
Test Depth (mm)	175	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0	0.0	0.0	0.0	0.0
Field Wet Density (FWD) t/m ³	1.93	1.95	1.88	2.00	1.78	1.91
Field Dry Density (FDD) t/m ³	**	**	**	**	**	**
Peak Converted Wet Density t/m ³	1.77	1.80	1.80	1.91	1.81	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	4.0	4.0	4.0	2.5	3.5	3.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	109.0	108.5	104.5	105.0	98.5	95.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P19123-6
Issue Number: 1
Date Issued: 28/02/2019
Client: Integra Land
Level 1 / 1728 Sturt Street, Alfredton VIC 3350
Project Number: P19123
Project Name: Lucas Estate - Stage E1
Project Location: Alfredton
Work Request: 948
Date Sampled: 20/02/2019
Sampling Method: AS1289 1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Material Source: Test Location



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Bryan Mott

Approved Signatory: Bryan Mott
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	D19-948G	D19-948H
Date Tested	21/02/2019	21/02/2019
Time Tested	09:08	09:11
Test Request #/Location	House Lot 1204	House Lot 1204
Easting	54H 744852	54H 744866
Northing	5840914	5840901
Elevation (m)	FSL	300mm BFSL
Layer / Reduced Level	Filling	Filling
Thickness of Layer (mm)	200	200
Soil Description	Orange Brown Silty clay	Orange Brown Silty clay
Test Depth (mm)	175	175
Sieve used to determine oversize (mm)	19.0	19.0
Percentage of Wet Oversize (%)	0.0	0.0
Field Wet Density (FWD) t/m ³	1.94	1.86
Field Dry Density (FDD) t/m ³	**	**
Peak Converted Wet Density t/m ³	1.80	1.83
Adjusted Peak Converted Wet Density t/m ³	**	**
Moisture Variation (Wv) %	4.5	3.0
Adjusted Moisture Variation %	**	**
Hilf Density Ratio (%)	107.5	101.5
Compaction Method	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC