

Hidden Court Estate Kennington

Earthworks Supervision Report for DPJ Civil

Report 23C 0198
October, 2023

Hidden Court Estate Kennington

Earthworks Supervision Report

for
DPJ Civil

Revision

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1 INTRODUCTION

DPJ Civil commissioned Geotechnical Testing Services (GTS) to undertake Level 1 Supervision and testing (AS3798-2007) for the earthworks for the residential subdivision at Hidden Court, Kennington.

Level 1 Testing was generally performed in line with AS3798-2007 “Guidelines on Earthworks for Commercial and Residential Development” and provides inspection of the construction of controlled fill and compaction testing in accordance with AS1289 “Methods of Testing Soils for Engineering Purposes”. The Level 1 testing was undertaken by Geotechnicians with supervision provided by a Geotechnical Engineer from GTS.

2 SCOPE OF WORKS

2.1 AREA OF WORK

Geotechnical Testing Services provided Level 1 inspection and testing of the engineered fill placed in Lots 1 to 10.

The depth of fill across the site varied from none to around 3600mm at its deepest in the dam with the approximate locations shown on the attached site plan. It is noted that sites/areas with 300mm or less were not included in the controlled fill operations.

2.2 PLACEMENT SPECIFICATION

Whilst there was no earthworks specification compiled for this project, the placement of the fill and associated works generally followed the recommendations outlined in AS3798-2007 “Guidelines for Earthworks for Commercial and Residential Developments” and the construction specification.

In summary, the earthworks comply with the following:

- The layers for residential lots are to be compacted to at least 95% of the density ratio in accordance with AS1289 5.1.1 (or 5.7.1), based on Standard compaction.

Therefore, in accordance with Table 8.1 of AS3798-2007, the filling varies from small scale (less than 1500m²) to large scale (greater than 1500m²). For small scale areas, 1 test per layer per residential lot is required whilst for the large scale a minimum of 1 test per 2500m² is required. It is

noted that under large scale, not every lot requires testing for every layer, however was conducted at 1 test per layer per lot which meets/exceeds the minimum requirement.

3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Senior Geotechnical Engineer and it was observed that the unsuitable material (vegetation, topsoil/silt) had been removed with the base consisting of a Silty Clay material of suitable strength.

Level 1 inspection and testing was undertaken by a geotechnician from GTS who nominated the timing and location of the in-situ density tests. The approximate location of each test is recorded on the test reports and attached fill plan.

Laboratory compaction testing was undertaken on a one to one basis at our Bendigo laboratory. A summary of the results of the compaction control testing is presented in a table below with the full NATA endorsed test reports included in the Appendix.

4 SUMMARY OF TEST RESULTS

A summary of the test results is included in the following table with full NATA accredited reports included in the Appendix.

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %O.M.C	Density Ratio %
1	B23-12700A	7/03/2023	Lot 5	-2400	1.5	103.5
2	B23-12706A	8/03/2023	Lot 4	-2400	0.5	99.5
3	B23-12706B	8/03/2023	Lot 5	-2100	0.5	97.5
4	B23-12741A	15/03/2023	Lot 4	-2100	5.0	100.0
5	B23-12762A	20/03/2023	Lot 4	-1800	0.0	99.5
6	B23-12762B	20/03/2023	Lot 5	-1800	0.0	100.5
7	B23-12781A	22/03/2023	Court Bowl	-1500	0.0	101.5
8	B23-12781B	22/03/2023	Lot 4	-1500	1.5	102.5
9	B23-12781C	22/03/2023	Lot 5	-1500	3.0	101.0
10	B23-12803A	27/03/2023	Lot 9	-600	0.0	96.0
11	B23-12815A	28/03/2023	Lot 4	-1200	-0.5	99.0
12	B23-12815B	28/03/2023	Lot 5	-1200	0.0	100.0
13	B23-12815C	28/03/2023	Court bowl	-1200	0.5	102.5

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %O.M.C	Density Ratio %
14	B23-12828A	30/03/2023	Lot 7	FSL	1.5	99.0
15	B23-12834A	31/03/2023	Court Bowl	-900	-0.5	102.0
16	B23-12834B	31/03/2023	Lot 4	-900	0.5	99.5
17	B23-12834C	31/03/2023	Lot 5	-900	0.5	102.0
18	B23-12867A	5/04/2023	Lot 4	-600	2.0	99.5
19	B23-12867B	5/04/2023	Lot 5	-600	1.5	101.0
20	B23-12867C	5/04/2023	Court Bowl	-600	0.5	102.5
21	B23-12922A	20/04/2023	Court Bowl	-300	0.5	105.0
22	B23-12931A	21/04/2023	Lot 3	-300	1.0	105.0
23	B23-12931B	21/04/2023	Lot 4	-300	1.5	100.0
24	B23-12931C	21/04/2023	Lot 5	-300	2.0	99.5
25	B23-12996A	3/05/2023	Lot 8 Rear	-300	2.0	105.0
26	B23-12996B	3/05/2023	Lot 9 Rear	-300	0.5	101.5
27	B23-13065A	11/05/2023	Lot 1	-300	2.5	97.5
28	B23-13074B	12/05/2023	Lot 8	FSL	2.0	104.5
29	B23-13074C	12/05/2023	Lot 6	FSL	2.0	105.0
30	B23-13118A	17/05/2023	Lot 1	FSL	1.5	100.0
31	B23-13143A	19/05/2023	Lot 3	FSL	1.5	103.5
32	B23-13143B	19/05/2023	Lot 4	FSL	0.0	99.5
33	B23-13143C	19/05/2023	Lot 5	FSL	1.5	101.0
34	B23-13795A	22/08/2023	Lot 5 Rear	+300mm	-1.5	101.0
35	B23-13809A	24/08/2023	Lot 5 Rear	+600mm	0.0	102.5
36	B23-13909A	6/09/2023	Lot 6 Rear	+300mm	0.5	100.0
37	B23-13944A	12/09/2023	Lot 6 Rear	600	0.5	103.0
38	B23-13970A	14/09/2023	Lot 10	300	0.5	102.5
39	B23-13970B	14/09/2023	Lot 10	FSL	1.0	102.0
40	B23-13970C	14/09/2023	Lot 10	-300	1.0	104.0
41	B23-13998A	18/09/2023	Lot 10	600	1.5	101.5
42	B23-14076A	28/09/2023	Lot 1	FSL	3.5	97.0
43	B23-14076B	28/09/2023	Lot 2	FSL	2.0	99.0

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling of Lots 1 to 10. The placement of fill and construction techniques adopted was observed throughout the project.

Based on observations made by GTS personnel and the results of field and laboratory tests, we consider that the fill has been placed and compacted and is considered to be engineered or controlled fill. Therefore, subject to residential site classifications, the controlled fill material is deemed a suitable founding medium for future residential buildings. It is noted that topsoil material may be spread across the sites following completion of these earthworks and that this topsoil material is not considered controlled fill.



Shane Hampton BE (Hons), MIEAust
Principal Geotechnical Engineer

APPENDIX

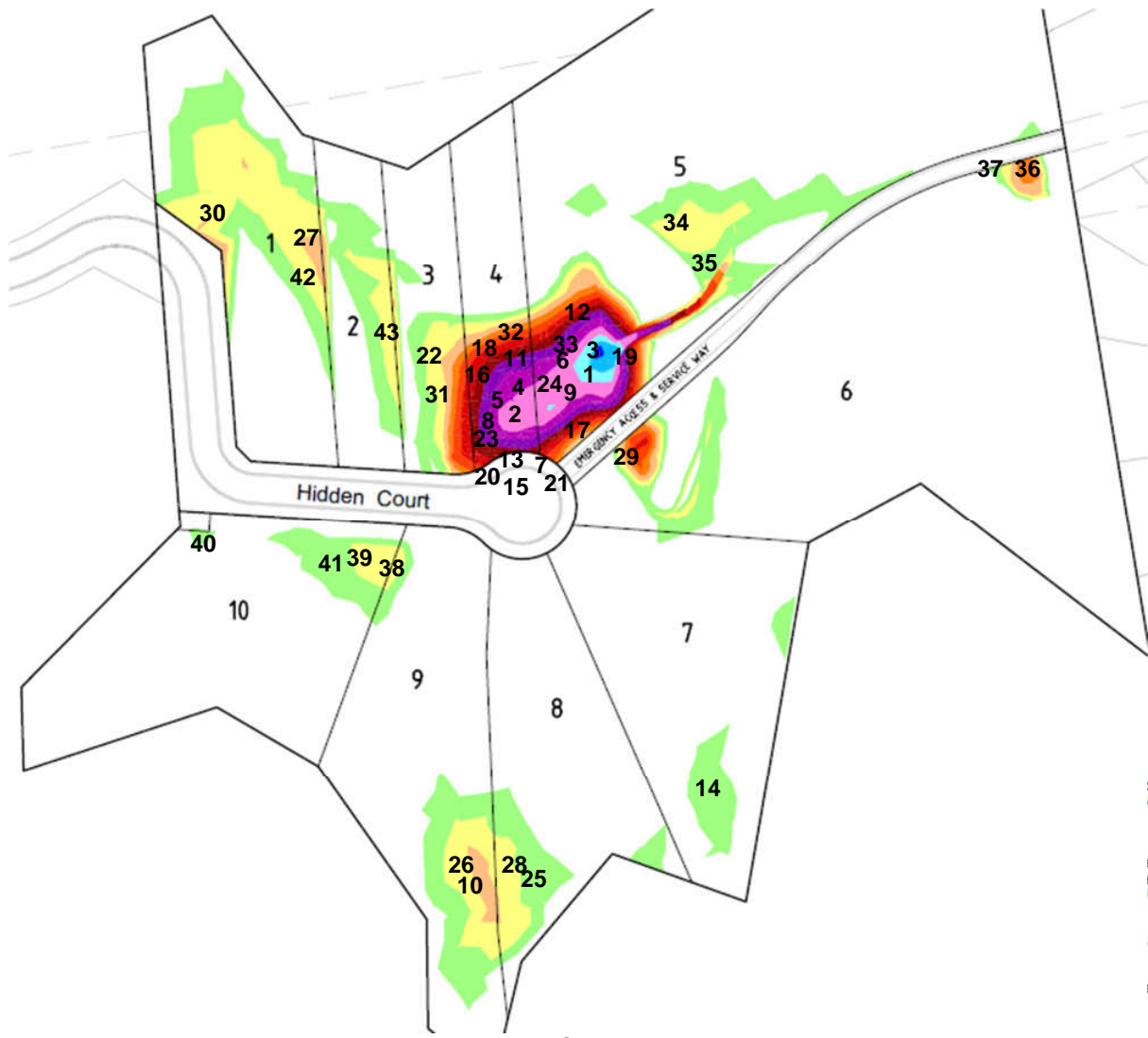


Fig 1 Site Plan

Material Test Report

Report Number: P211386-2
Issue Number: 1
Date Issued: 08/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12700
Date Sampled: 07/03/2023
Dates Tested: 07/03/2023 - 08/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court Strathdale
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12700A		
Date Tested	07/03/2023		
Time Tested	08:44		
Test Request #/Location	Lot 5 House blocks		
Chainage (m)	Middle		
Location Offset (m)	**		
Layer / Reduced Level	-2400		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	2		
Field Wet Density (FWD) t/m ³	2.19		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.11		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	103.5		
Compaction Method	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: P211386-3
Issue Number: 1
Date Issued: 09/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12706
Date Sampled: 08/03/2023
Dates Tested: 08/03/2023 - 09/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12706A	B23-12706B	
Date Tested	08/03/2023	08/03/2023	
Time Tested	09:59	10:03	
Test Request #/Location	House blocks Lot 4	House blocks Lot 5	
Chainage (m)	Middle	Middle	
Location Offset (m)	**	**	
Layer / Reduced Level	-2400	-2100	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	3	1	
Field Wet Density (FWD) t/m ³	2.13	2.06	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.14	2.11	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.5	0.5	
Hilf Density Ratio (%)	99.5	97.5	
Compaction Method	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: P211386-4
Issue Number: 1
Date Issued: 16/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12741
Date Sampled: 15/03/2023
Dates Tested: 15/03/2023 - 16/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 13 Alstonvale Court East Bendigo VIC 3550
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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12741A		
Date Tested	15/03/2023		
Time Tested	14:19		
Test Request #/Location	House Block Lot 4		
Chainage (m)	Centre		
Location Offset (m)	**		
Layer / Reduced Level	-2100		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	1		
Field Wet Density (FWD) t/m ³	1.97		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	1.97		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	5.0		
Hilf Density Ratio (%)	100.0		
Compaction Method	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: P211386-5
Issue Number: 1
Date Issued: 20/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12762
Date Sampled: 20/03/2023
Dates Tested: 20/03/2023 - 20/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12762A	B23-12762B	
Date Tested	20/03/2023	20/03/2023	
Time Tested	10:43	10:47	
Test Request #/Location	House Block Lot 4	House Block Lot 5	
Chainage (m)	Front	Front	
Location Offset (m)	Centre	Centre	
Layer / Reduced Level	-1800	-1800	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	1	1	
Field Wet Density (FWD) t/m ³	2.12	2.11	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.12	2.10	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	0.0	0.0	
Hilf Density Ratio (%)	99.5	100.5	
Compaction Method	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: P211386-6
Issue Number: 1
Date Issued: 22/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12781
Date Sampled: 22/03/2023
Dates Tested: 22/03/2023 - 22/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12781A	B23-12781B	B23-12781C
Date Tested	22/03/2023	22/03/2023	22/03/2023
Time Tested	10:06	10:08	10:11
Test Request #/Location	Roadway Crt Bowl	House Block Lot 4	House Block Lot 5
Chainage (m)	Centre	Centre	Centre
Location Offset (m)	**	**	**
Layer / Reduced Level	-1500	-1500	-1500
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	2	2
Field Wet Density (FWD) t/m ³	2.10	2.12	2.04
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.07	**	**
Adjusted Peak Converted Wet Density t/m ³	**	2.07	2.02
Moisture Variation (Wv) %	0.0	**	**
Adjusted Moisture Variation %	**	1.5	3.0
Hilf Density Ratio (%)	101.5	102.5	101.0
Compaction Method	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: P211386-7
Issue Number: 1
Date Issued: 28/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12803
Date Sampled: 27/03/2023
Dates Tested: 27/03/2023 - 28/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Strathdale
Material Source: Test Location

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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12803A		
Date Tested	27/03/2023		
Time Tested	12:03		
Test Request #/Location	House Block Lot 9		
Chainage (m)	Rear of block		
Location Offset (m)	East side		
Layer / Reduced Level	-600		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	1		
Field Wet Density (FWD) t/m ³	2.03		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.12		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.0		
Hilf Density Ratio (%)	96.0		
Compaction Method	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: P211386-8
Issue Number: 1
Date Issued: 28/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12815
Date Sampled: 28/03/2023
Dates Tested: 28/03/2023 - 28/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
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 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12815A	B23-12815B	B23-12815C
Date Tested	28/03/2023	28/03/2023	28/03/2023
Time Tested	11:51	11:57	12:03
Test Request #/Location	House blocks Lot 4	House blocks Lot 5	Court bowl Court bowl
Easting	259570	259589	259571
Northing	5925548 (Zone 55H), 264 m	5925560 (Zone 55H), 284 m	5925533 (Zone 55H), 284 m
Layer / Reduced Level	-1200	-1200	-1200
Thickness of Layer (mm)	300	300	300
Soil Description	Clayey Sandy Silt	Clayey Sandy Silt	Clayey Sandy Silt
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	6	5	6
Field Wet Density (FWD) t/m ³	2.14	2.16	2.17
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.16	2.17	2.12
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	-0.5	0.0	0.5
Hilf Density Ratio (%)	99.0	100.0	102.5
Compaction Method	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: P211386-9
Issue Number: 1
Date Issued: 30/03/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550

Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12828
Date Sampled: 30/03/2023
Dates Tested: 30/03/2023 - 30/03/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12828A		
Date Tested	30/03/2023		
Time Tested	09:14		
Test Request #/Location	House Block Lot 7		
Chainage (m)	Rear of block		
Location Offset (m)	Centre		
Layer / Reduced Level	FSL		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	6		
Field Wet Density (FWD) t/m ³	2.13		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.14		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	99.0		
Compaction Method	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: P211386-10
Issue Number: 1
Date Issued: 03/04/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12834
Date Sampled: 31/03/2023
Dates Tested: 31/03/2023 - 03/04/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12834A	B23-12834B	B23-12834C
Date Tested	31/03/2023	31/03/2023	31/03/2023
Time Tested	13:37	13:41	13:45
Test Request #/Location	House Blocks Court Bowl	House Blocks Lot 4	House Blocks Lot 5
Chainage (m)	259572	Centre of Block	Centre of Block
Location Offset (m)	5925526	**	**
Layer / Reduced Level	-900	-900	-900
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	3	1
Field Wet Density (FWD) t/m ³	2.21	2.15	2.19
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.16	2.16	2.15
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	-0.5	0.5	0.5
Hilf Density Ratio (%)	102.0	99.5	102.0
Compaction Method	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: P211386-11
Issue Number: 1
Date Issued: 06/04/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12867
Date Sampled: 05/04/2023
Dates Tested: 05/04/2023 - 06/04/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12867A	B23-12867B	B23-12867C
Date Tested	05/04/2023	05/04/2023	05/04/2023
Time Tested	14:27	14:33	14:41
Test Request #/Location	House Block Lot 4	House Block Lot 5	House Block Court Bowl
Chainage (m)	Centre of Block	Centre of Block	259565
Location Offset (m)	**	**	5925520
Layer / Reduced Level	-600	-600	-600
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	7	5
Field Wet Density (FWD) t/m ³	2.12	2.16	2.12
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.13	2.13	2.07
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	1.5	0.5
Hilf Density Ratio (%)	99.5	101.0	102.5
Compaction Method	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: P211386-12
Issue Number: 1
Date Issued: 20/04/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550

Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12922
Date Sampled: 20/04/2023
Dates Tested: 20/04/2023 - 20/04/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12922A		
Date Tested	20/04/2023		
Time Tested	08:12		
Test Request #/Location	Roadway Court Bowl		
Easting	259572		
Northing	5925529 (Zone 55H), 279 m		
Layer / Reduced Level	-300		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	3		
Field Wet Density (FWD) t/m ³	2.26		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.15		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.5		
Hilf Density Ratio (%)	105.0		
Compaction Method	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: P211386-13
Issue Number: 1
Date Issued: 21/04/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12931
Date Sampled: 21/04/2023
Dates Tested: 21/04/2023 - 21/04/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12931A	B23-12931B	B23-12931C
Date Tested	21/04/2023	21/04/2023	21/04/2023
Time Tested	08:08	08:10	08:21
Test Request #/Location	Stage 1 House Blocks	Stage 1 House Blocks	Stage 1 House Blocks
Chainage (m)	Lot 3	Lot 4	Lot 5
Location Offset (m)	Centre of block	Centre of block	Centre of block
Layer / Reduced Level	-300	-300	-300
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	2	1
Field Wet Density (FWD) t/m ³	2.31	2.13	2.14
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.21	**	**
Adjusted Peak Converted Wet Density t/m ³	**	2.13	2.14
Moisture Variation (Wv) %	1.0	**	**
Adjusted Moisture Variation %	**	1.5	2.0
Hilf Density Ratio (%)	105.0	100.0	99.5
Compaction Method	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: P211386-14
Issue Number: 1
Date Issued: 03/05/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 12996
Date Sampled: 03/05/2023
Dates Tested: 03/05/2023 - 03/05/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Hidden Court
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-12996A	B23-12996B	
Date Tested	03/05/2023	03/05/2023	
Time Tested	08:16	08:18	
Test Request #/Location	Stage 1 House Blocks	Stage 1 House Blocks	
Chainage (m)	Lot 8 / Rear West Side	Lot 9 / Rear East Side	
Location Offset (m)	259569, 5925425 (Zone 55H), 282 m	259564, 5925426 (Zone 55H), 282 m	
Layer / Reduced Level	-300	-300	
Thickness of Layer (mm)	300	300	
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	12	3	
Field Wet Density (FWD) t/m ³	2.33	2.29	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.22	2.26	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	0.5	
Hilf Density Ratio (%)	105.0	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

Material Test Report

Report Number: P211386-15
Issue Number: 1
Date Issued: 11/05/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13065
Date Sampled: 11/05/2023
Dates Tested: 11/05/2023 - 11/05/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location



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 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13065A		
Date Tested	11/05/2023		
Time Tested	07:48		
Test Request #/Location	House Blocks Lot 1		
Chainage (m)	West side - Rear		
Location Offset (m)	**		
Layer / Reduced Level	-300		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	4		
Field Wet Density (FWD) t/m ³	2.08		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.14		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	2.5		
Hilf Density Ratio (%)	97.5		
Compaction Method	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: P211386-16
Issue Number: 1
Date Issued: 12/05/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550

Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13074
Date Sampled: 12/05/2023
Dates Tested: 12/05/2023 - 12/05/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Remarks: B23-13074A - UN-testable due to over 20% retained on the 37.5mm sieve

Site Selection: Selected by Client

Location: Stage 1

Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13074A	B23-13074B	B23-13074C
Date Tested	12/05/2023	12/05/2023	12/05/2023
Time Tested	08:11	08:17	08:25
Test Request #/Location	House Blocks Lot 9	House Blocks Lot 8	House Blocks Lot 6
Chainage (m)	East side	West side	Front Center
Location Offset (m)	**	**	**
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	37.5	19.0	19.0
Percentage of Wet Oversize (%)	27	20	16
Field Wet Density (FWD) t/m ³	2.24	2.28	2.29
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	**	2.18	2.18
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	**	2.0	2.0
Hilf Density Ratio (%)	**	104.5	105.0
Compaction Method	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: P211386-17
Issue Number: 1
Date Issued: 17/05/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550

Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13118
Date Sampled: 17/05/2023
Dates Tested: 17/05/2023 - 17/05/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13118A		
Date Tested	17/05/2023		
Time Tested	10:15		
Test Request #/Location	House Lot Lot 1		
Chainage (m)	West side Front		
Location Offset (m)	**		
Layer / Reduced Level	FSL		
Thickness of Layer (mm)	300		
Soil Description	Gravelly Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	13		
Field Wet Density (FWD) t/m ³	2.14		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.13		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	100.0		
Compaction Method	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: P211386-18
Issue Number: 1
Date Issued: 19/05/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13143
Date Sampled: 19/05/2023
Dates Tested: 19/05/2023 - 19/05/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location



Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13143A	B23-13143B	B23-13143C
Date Tested	19/05/2023	19/05/2023	19/05/2023
Time Tested	08:09	08:13	08:16
Test Request #/Location	House Blocks Lot 3	House Blocks Lot 4	House Blocks Lot 5
Chainage (m)	Middle	Middle	Middle
Location Offset (m)	**	**	**
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	6	4	4
Field Wet Density (FWD) t/m ³	2.21	2.17	2.13
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.14	2.18	2.11
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	0.0	1.5
Hilf Density Ratio (%)	103.5	99.5	101.0
Compaction Method	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: P211386-19
Issue Number: 1
Date Issued: 22/08/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13795
Date Sampled: 22/08/2023
Dates Tested: 22/08/2023 - 22/08/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: tylerw_work@outlook.com

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[Signature]

Approved Signatory: Tyler Webb
 Laboratory Technician
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13795A		
Date Tested	22/08/2023		
Time Tested	08:23		
Test Request #/Location	Stage 1 House Blocks		
Chainage (m)	Lot 5		
Location Offset (m)	Rear North East Corner		
Layer / Reduced Level	300mm above FSL		
Thickness of Layer (mm)	300		
Soil Description	Gravelly Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	9		
Field Wet Density (FWD) t/m ³	2.27		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.25		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	-1.5		
Hilf Density Ratio (%)	101.0		
Compaction Method	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: P211386-20
Issue Number: 1
Date Issued: 24/08/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13809
Date Sampled: 24/08/2023
Dates Tested: 24/08/2023 - 24/08/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: tylerw_work@outlook.com

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(Signature)

Approved Signatory: Tyler Webb
 Laboratory Technician
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13809A		
Date Tested	24/08/2023		
Time Tested	07:43		
Test Request #/Location	Stage 1 House Blocks		
Chainage (m)	Lot 5		
Location Offset (m)	Rear North East Corner		
Layer / Reduced Level	600mm above FSL		
Thickness of Layer (mm)	300		
Soil Description	Gravelly Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	4		
Field Wet Density (FWD) t/m ³	2.27		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.21		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.0		
Hilf Density Ratio (%)	102.5		
Compaction Method	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: P211386-22
Issue Number: 1
Date Issued: 06/09/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13909
Date Sampled: 06/09/2023
Dates Tested: 06/09/2023 - 06/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: tylerw@gts.com.au

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[Signature]

Approved Signatory: Tyler Webb
 Laboratory Technician
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13909A		
Date Tested	06/09/2023		
Time Tested	14:29		
Test Request #/Location	Stage 1 House Blocks		
Chainage (m)	Lot 6		
Location Offset (m)	North Rear Corner		
Layer / Reduced Level	+300mm		
Thickness of Layer (mm)	300		
Soil Description	Gravelly Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	12		
Field Wet Density (FWD) t/m ³	2.20		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.20		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.5		
Hilf Density Ratio (%)	100.0		
Compaction Method	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: P211386-23
Issue Number: 1
Date Issued: 12/09/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13944
Date Sampled: 12/09/2023
Dates Tested: 12/09/2023 - 12/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



(Signature)

Approved Signatory: Tyler Webb
 Laboratory Technician
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13944A		
Date Tested	12/09/2023		
Time Tested	13:52		
Test Request #/Location	Stage 1 House Blocks		
Chainage (m)	Lot 6		
Location Offset (m)	North Rear Corner		
Layer / Reduced Level	+600		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	9		
Field Wet Density (FWD) t/m ³	2.24		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.17		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	0.5		
Hilf Density Ratio (%)	103.0		
Compaction Method	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: P211386-24
Issue Number: 1
Date Issued: 14/09/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13970
Date Sampled: 14/09/2023
Dates Tested: 14/09/2023 - 14/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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TL

Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13970A	B23-13970B	B23-13970C
Date Tested	14/09/2023	14/09/2023	14/09/2023
Time Tested	07:32	07:34	07:36
Test Request #/Location	Stage 1 House Blocks	Stage 1 House Blocks	Stage 1 House Blocks
Chainage (m)	Lot 10	Lot 10	Lot 10
Location Offset (m)	Front Left Corner	Front Centre	Front Right Corner
Layer / Reduced Level	+300	FSL	-300
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	7	8
Field Wet Density (FWD) t/m ³	2.24	2.23	2.28
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.19	2.19	2.19
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.5	1.0	1.0
Hilf Density Ratio (%)	102.5	102.0	104.0
Compaction Method	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: P211386-25
Issue Number: 1
Date Issued: 18/09/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 13998
Date Sampled: 18/09/2023
Dates Tested: 18/09/2023 - 18/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 1
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: tylerw@gts.com.au

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Approved Signatory: Tyler Webb
 Laboratory Technician
 NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13998A		
Date Tested	18/09/2023		
Time Tested	07:44		
Test Request #/Location	Stage 1 House Blocks		
Chainage (m)	Lot 10		
Location Offset (m)	Front East Corner		
Layer / Reduced Level	+600		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	9		
Field Wet Density (FWD) t/m ³	2.19		
Field Dry Density (FDD) t/m ³	**		
Peak Converted Wet Density t/m ³	**		
Adjusted Peak Converted Wet Density t/m ³	2.17		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	1.5		
Hilf Density Ratio (%)	101.5		
Compaction Method	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: P211386-26
Issue Number: 1
Date Issued: 02/10/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P211386
Project Name: Hidden Court / Edwards Rd
Project Location: One Tree Hill - Strathdale
Work Request: 14076
Date Sampled: 28/09/2023
Dates Tested: 28/09/2023 - 28/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Strathdale
Material Source: Test Location

Geotechnical Testing Services (Southern)
 Bendigo Soil and Concrete Testing Laboratory
 13 Alstonvale Court East Bendigo VIC 3550
 Phone: (03) 5441 4881
 Email: joshl@gts.com.au

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Handwritten signature

Approved Signatory: Josh Lagodzki
CMT Manager

NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-14076A	B23-14076B	
Date Tested	28/09/2023	28/09/2023	
Time Tested	13:21	13:26	
Test Request #/Location	Stage 1 House Blocks	Stage 1 House Blocks	
Chainage (m)	Lot 1	Lot 2	
Location Offset (m)	Rear Right Corner	Rear Right Corner	
Layer / Reduced Level	FSL	FSL	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	5	4	
Field Wet Density (FWD) t/m ³	2.02	2.10	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	**	**	
Adjusted Peak Converted Wet Density t/m ³	2.08	2.12	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	3.5	2.0	
Hilf Density Ratio (%)	97.0	99.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

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