Imagine Estate, Stage 30 & 31 Strathfieldsaye

Earthworks Supervision Report for DPJ Civil

Report 23C 0721-2
Aug, 2025

GTS
GEOTECHNICAL TESTING SERVICES

Imagine Estate, Stage 30 & 31
Strathfieldsaye

Earthworks Supervision Report
for
DPJ Civil

Revision

Revision	Date	Authorised
23C 0721	2/07/2024	SEH
23C 0721-1	2/07/2024	SEH
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APPENDIX

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 Imagine Estate Stages 30 & 31, Strathfieldsaye.

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 3003 to 3012, 3018 and 3109 to 3114.

The depth of fill across the site varied from none to around 1200mm in the deepest section of the dam with the approximate locations shown on the attached site plan. Lots with less than 300mm of fill are not included in controlled fill. In addition, Lots 3104 to 3108 are not included due to an unsuitable strength base material at the time of earthworks.

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.

In accordance with Table 8.1 of AS3798-2007, the filling may be considered large scale (greater than 1500m^2) and therefore a minimum of 1 test per layer per material type per 2500m^2 or 1 test per 500m^3 is required. It is noted that under this scale, not every lot requires testing, however, the testing

was generally conducted at 1 test per layer per residential lot which exceeds the minimum requirements.

3 INSPECTION AND TESTING

Inspection of the excavated bases were conducted by a Senior Geotechnical Engineer and it was observed that the unsuitable material (vegetation, topsoil/silt and low strength material) had been removed with the base consisting of a Sandy/Silty Clay material of suitable strength or weathered rock in the base of the dam.

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. It is noted that the lot numbers in both Stages 30 and 31 changed after tests had been completed with the new lot numbers below and the initial one recorded on the test reports in brackets.

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
1	B23-13907B	6/09/2023	Lot 3006 (3005)	-600	0.5	105.0
2	B23-13907C	6/09/2023	Lot 3008 (3006)	-600	0.5	104.0
3	B23-13907D	6/09/2023	Lot 3010 (3008)	-900	0.0	104.0
4	B23-13907E	6/09/2023	Lot 3011 (3009)	-900	0.0	106.0
5	B23-13935A	11/09/2023	Lot 3007 (3005)	-300	0.0	101.5
6	B23-13935B	11/09/2023	Lot 3008 (3006)	-300	0.0	99.5
7	B23-13935C	11/09/2023	Lot 3011 (3009)	-600	0.0	100.0
8	B23-13962A	13/09/2023	Lot 3011 (3010)	-600	1.5	100.0

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %O.M.C	Hilf Density Ratio %
9	B23-13962B	13/09/2023	Lot 3010 (3009)	-300	0.5	99.0
10	B23-13962C	13/09/2023	Lot 3003	FSL	0.5	101.0
11	B23-13962D	13/09/2023	Lot 3005 (3004)	FSL	1.5	103.5
12	B23-13962E	13/09/2023	Lot 3006 (3005)	FSL	0.5	101.5
13	B23-13982A	15/09/2023	Lot 3012 (3010)	-300	1.0	104.0
14	B23-13982B	15/09/2023	Lot 3010 (3009)	-300	0.5	99.5
15	B23-13982C	15/09/2023	Lot 3010 (3008)	FSL	0.0	103.5
16	B23-13982D	15/09/2023	Lot 3114 (3117)	FSL	0.5	101.5
17	B23-13982E	15/09/2023	Lot 3114 (3117)	-600	1.0	102.0
18	B23-13982F	15/09/2023	Lot 3113 (3116)	-600	2.0	104.5
19	B23-13982G	15/09/2023	Lot 3113 (3116)	FSL	1.5	105.0
20	B23-14021A	20/09/2023	Lot 3012 (3011)	FSL	3.0	100.0
21	B23-14021B	20/09/2023	Lot 3011 (3010)	FSL	2.5	98.0
22	B23-14021C	20/09/2023	Lot 3011 (3009)	FSL	0.5	104.0
23	B23-14021D	20/09/2023	Lot 3114 (3117)	-300	1.5	104.0
24	B23-14021E	20/09/2023	Lot 3113 (3116)	-300	2.0	109.0
25	B23-14021F	20/09/2023	Lot 3112 (3115)	-300	3.0	106.0
26	B23-14036A	22/09/2023	Lot 3114 (3117)	FSL	2.5	98.0
27	B23-14036B	22/09/2023	Lot 3113 (3116)	FSL	3.0	104.0
28	B23-14036C	22/09/2023	Lot 3112 (3115)	FSL	2.5	100.5
29	B23-14036D	22/09/2023	Lot 3111 (3114)	-300	2.5	100.0
30	B23-14036E	22/09/2023	Lot 3110/3109 (3113)	-300	2.0	105.5
31	B23-14218A	13/10/2023	Lot 3111 (3114)	FSL	3.0	105.0
32	B23-14218B	13/10/2023	Lot 3112 (3115)	FSL	3.0	104.0
33	B25-17093A	21/01/2025	Lot 3018	FSL	2.5	99.5
34	B25-17101A	22/01/2025	Lot 3004	FSL	2.5	97.0

Note: +ve moisture values are dry of optimum, -ve are wet of optimum

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling of Lots 3003 to 3012, 3018 and 3109 to 3114. 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.

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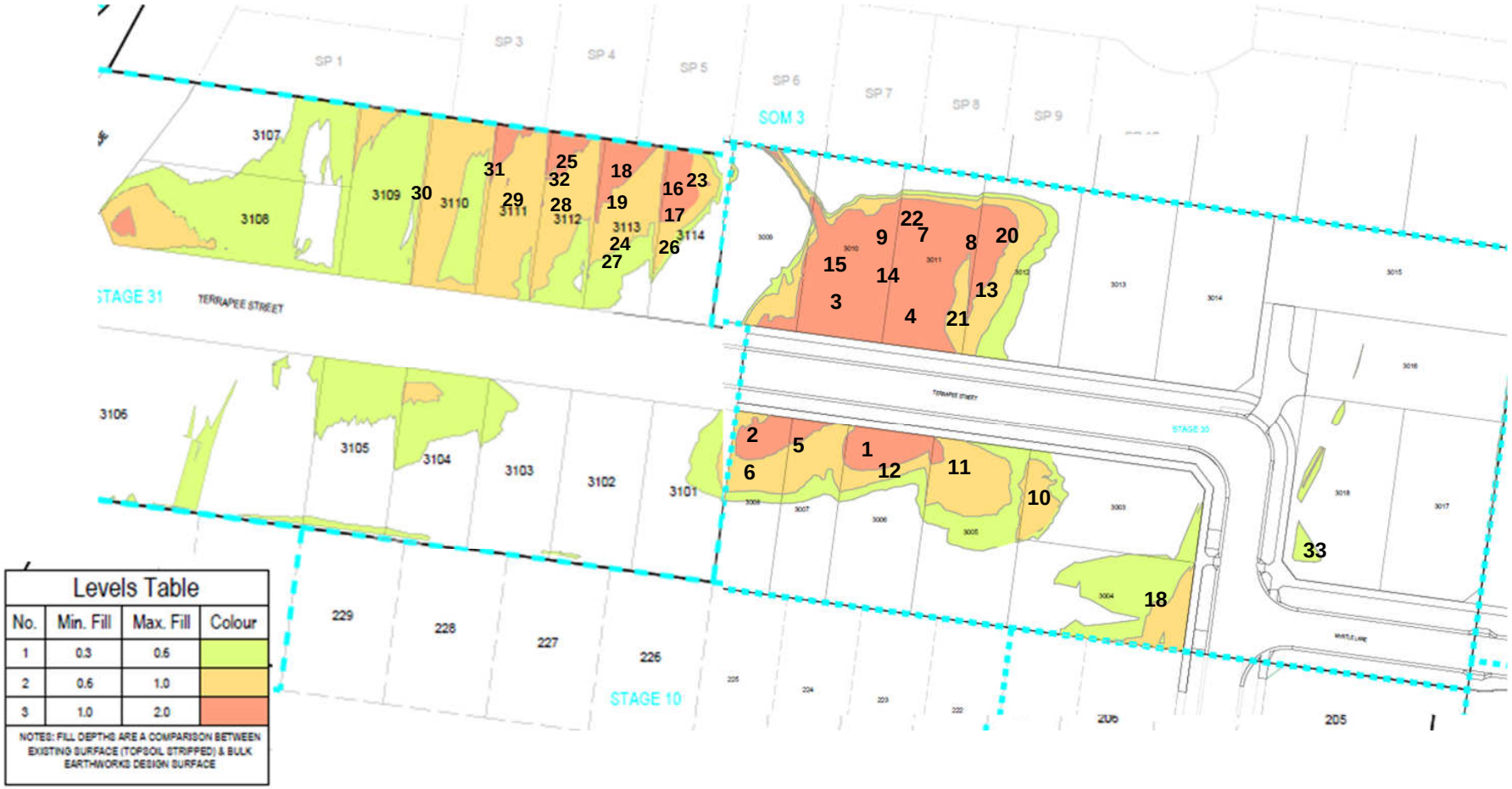
APPENDIX



Levels Table			
No.	Min. Fill	Max. Fill	Colour
1	0.3	0.6	
2	0.6	1.0	
3	1.0	2.0	

NOTES: FILL DEPTHS ARE A COMPARISON BETWEEN EXISTING SURFACE (TOPSOIL STRIPPED) & BULK EARTHWORKS DESIGN SURFACE

Fig 1: Site Plan

Material Test Report

Report Number: **P17236-117**
Issue Number: 1
Date Issued: 06/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 13907
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
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

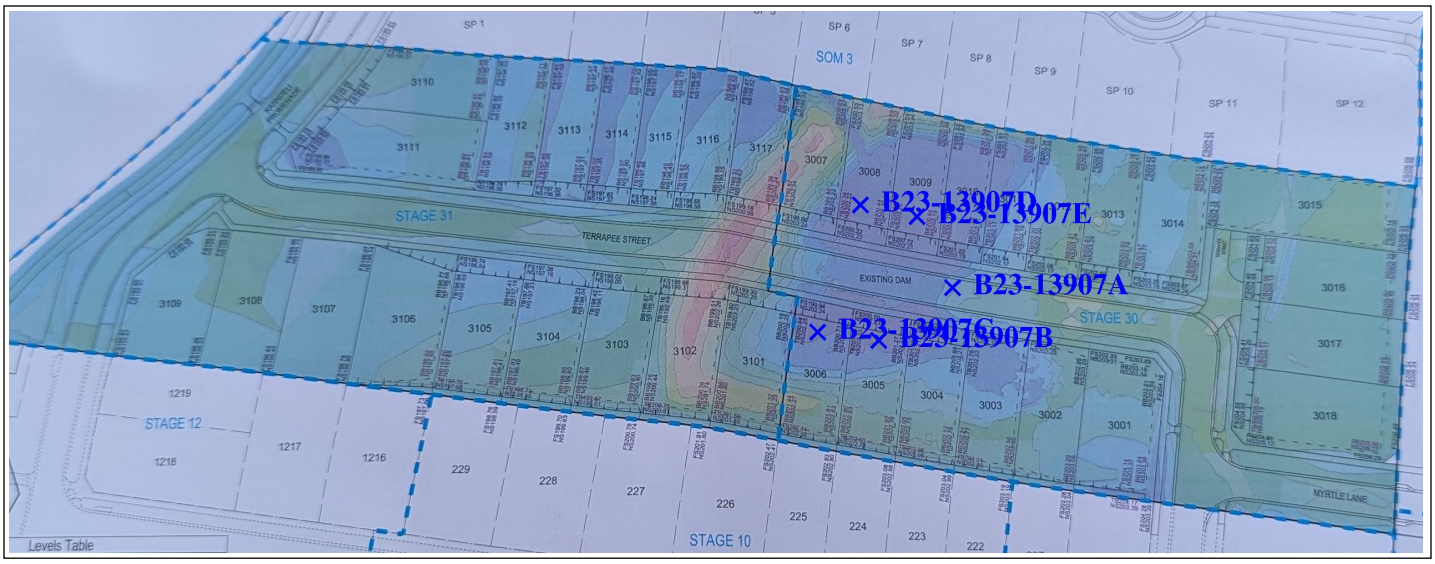
Approved Signatory: Tyler Webb
Laboratory Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B23-13907A	B23-13907B	B23-13907C	B23-13907D	B23-13907E
Date Tested	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Time Tested	08:41	08:46	08:51	08:56	08:59
Test Request #/Location	Stage 30 / Retest for B23-13876A Roadway / Terrapee Street	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks
Chainage (m)	Lot 3010	Lot 3005	Lot 3006	Lot 3008	Lot 3009
Location Offset (m)	1m R	Front Centre	Front Centre	Front Centre	Front Centre
Layer / Reduced Level	-290	-600	-600	-900	-900
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
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 (%)	1	1	1	2	2
Field Wet Density (FWD) t/m^3	2.24	2.13	2.09	2.22	2.21
Field Dry Density (FDD) t/m^3	**	**	**	**	**
Peak Converted Wet Density t/m^3	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.12	2.03	2.01	2.13	2.09
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	1.0	0.5	0.5	0.0	0.0
Hilf Density Ratio (%)	**105.5**	**105.0**	**104.0**	**104.0**	**106.0**
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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **P17236-118**
Issue Number: 1
Date Issued: 11/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 13935
Date Sampled: 11/09/2023
Dates Tested: 11/09/2023 - 11/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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

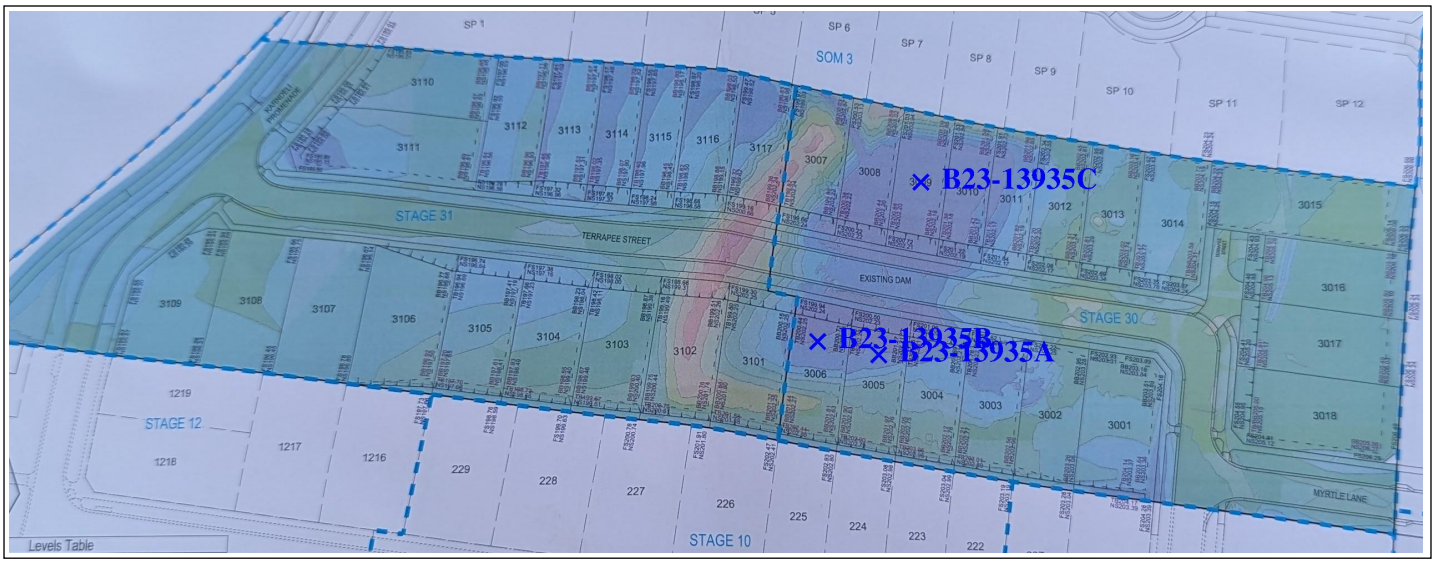
Approved Signatory: Tyler Webb
Laboratory Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B23-13935A	B23-13935B	B23-13935C
Date Tested	11/09/2023	11/09/2023	11/09/2023
Time Tested	09:09	09:13	09:19
Test Request #/Location	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks
Chainage (m)	Lot 3005	Lot 3006	Lot 3009
Location Offset (m)	Front Centre	Front Centre	Centre of block
Layer / Reduced Level	-300	-300	-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 (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.13	2.07	2.16
Field Dry Density (FDD) t/m^3	**	**	**
Peak Converted Wet Density t/m^3	2.10	2.07	2.16
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.5**	**99.5**	**100.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **P17236-119**
Issue Number: 1
Date Issued: 14/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 13962
Date Sampled: 13/09/2023
Dates Tested: 13/09/2023 - 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
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

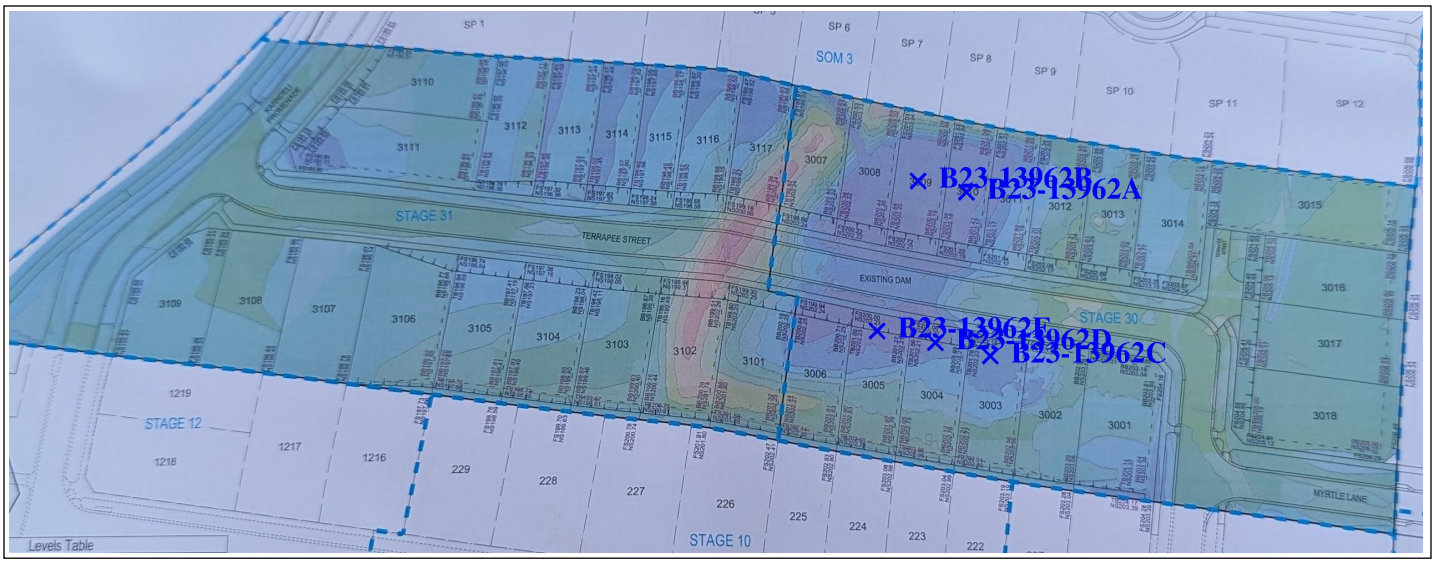
Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B23-13962A	B23-13962B	B23-13962C	B23-13962D	B23-13962E
Date Tested	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Time Tested	09:41	09:45	09:52	09:56	10:01
Test Request #/Location	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks
Chainage (m)	Lot 3010	Lot 3009	Lot 3003	Lot 3004	Lot 3005
Location Offset (m)	Centre	Centre	Front Centre	Front Centre	Front Centre
Layer / Reduced Level	-600	-300	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
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 (%)	1	0	0	0	0
Field Wet Density (FWD) t/m^3	2.14	2.17	2.10	2.14	2.14
Field Dry Density (FDD) t/m^3	**	**	**	**	**
Peak Converted Wet Density t/m^3	**	2.20	2.08	2.06	2.11
Adjusted Peak Converted Wet Density t/m^3	2.14	**	**	**	**
Moisture Variation (Wv) %	**	0.5	0.5	1.5	0.5
Adjusted Moisture Variation %	1.5	**	**	**	**
Hilf Density Ratio (%)	**100.0**	**99.0**	**101.0**	**103.5**	**101.5**
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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **P17236-120**
Issue Number: 1
Date Issued: 15/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 13982
Date Sampled: 15/09/2023
Dates Tested: 15/09/2023 - 15/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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	B23-13982A	B23-13982B	B23-13982C	B23-13982D
Date Tested	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Time Tested	09:07	09:08	09:11	09:17
Test Request #/Location	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks
Chainage (m)	Lot 3010	Lot 3009	Lot 3008	Lot 3117
Location Offset (m)	Centre	Centre	Centre	Front Centre
Layer / Reduced Level	-300	-300	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay	Gravelly Silty Clay
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 (%)	2	1	1	4
Field Wet Density (FWD) t/m^3	2.22	2.19	2.23	2.17
Field Dry Density (FDD) t/m^3	**	**	**	**
Peak Converted Wet Density t/m^3	**	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.13	2.20	2.15	2.14
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	1.0	0.5	0.0	0.5
Hilf Density Ratio (%)	**104.0**	**99.5**	**103.5**	**101.5**
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: P17236-120
Issue Number: 1
Date Issued: 15/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 13982
Date Sampled: 15/09/2023
Dates Tested: 15/09/2023 - 15/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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

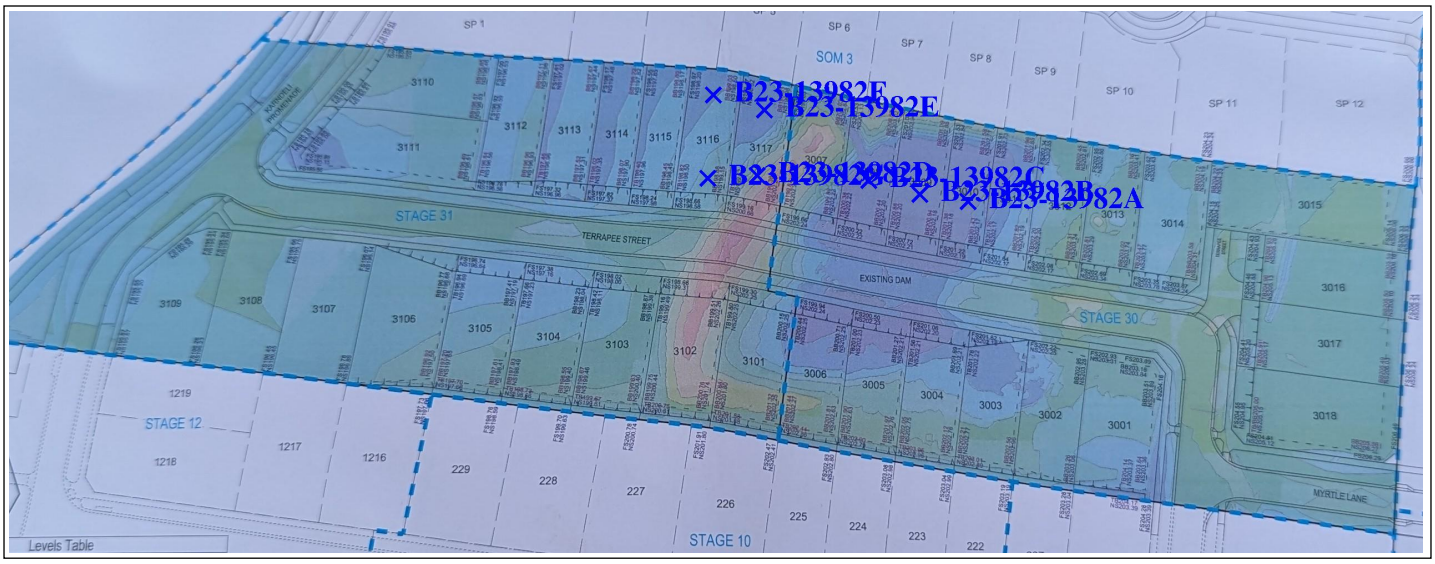
Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1				
Sample Number	B23-13982E	B23-13982F	B23-13982G	
Date Tested	15/09/2023	15/09/2023	15/09/2023	
Time Tested	09:19	09:22	09:24	
Test Request #/Location	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	
Chainage (m)	Lot 3117	Lot 3116	Lot 3116	
Location Offset (m)	Rear Centre	Rear Centre	Front Centre	
Layer / Reduced Level	-600	-600	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 (%)	0	3	2	
Field Wet Density (FWD) t/m^3	2.16	2.17	2.22	
Field Dry Density (FDD) t/m^3	**	**	**	
Peak Converted Wet Density t/m^3	2.12	**	**	
Adjusted Peak Converted Wet Density t/m^3	**	2.08	2.11	
Moisture Variation (Wv) %	1.0	**	**	
Adjusted Moisture Variation %	**	2.0	1.5	
Hilf Density Ratio (%)	**102.0**	**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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **P17236-121**
Issue Number: 1
Date Issued: 20/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30/31
Work Request: 14021
Date Sampled: 20/09/2023
Dates Tested: 20/09/2023 - 20/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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

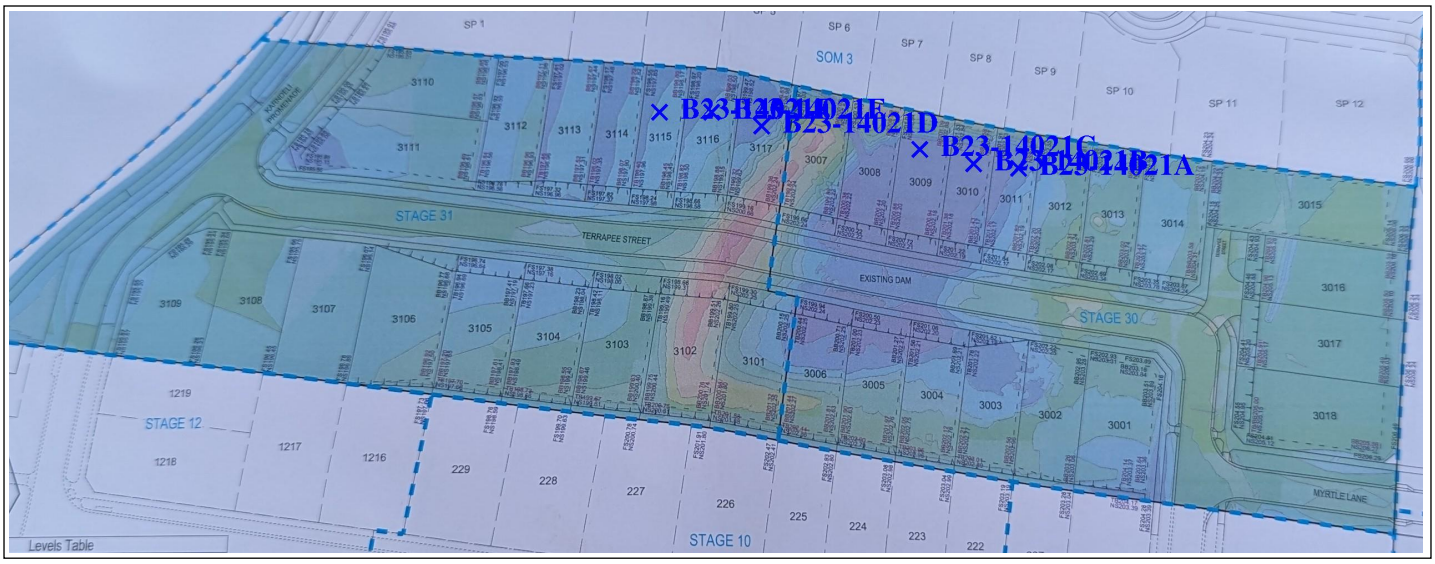
Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B23-14021A	B23-14021B	B23-14021C	B23-14021D	B23-14021E	B23-14021F
Date Tested	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Time Tested	07:59	08:06	08:10	08:15	08:17	08:19
Test Request #/Location	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks	Stage 30 House Blocks
Chainage (m)	Lot 3011	Lot 3010	Lot 3009	Lot 3117	Lot 3116	Lot 3115
Location Offset (m)	Back	Back	Back	Back	Back	Back
Layer / Reduced Level	FSL	FSL	FSL	-300	-300	-300
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	2	4	0	0	2
Field Wet Density (FWD) t/m^3	1.99	2.04	2.20	2.22	2.21	2.21
Field Dry Density (FDD) t/m^3	**	**	**	**	**	**
Peak Converted Wet Density t/m^3	2.00	**	**	2.14	2.02	**
Adjusted Peak Converted Wet Density t/m^3	**	2.07	2.12	**	**	2.09
Moisture Variation (Wv) %	3.0	**	**	1.5	2.0	**
Adjusted Moisture Variation %	**	2.5	0.5	**	**	3.0
Hilf Density Ratio (%)	**100.0**	**98.0**	**104.0**	**104.0**	**109.0**	**106.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**	**	**	**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: P17236-122
Issue Number: 1
Date Issued: 22/09/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 31
Work Request: 14036
Date Sampled: 22/09/2023
Dates Tested: 22/09/2023 - 22/09/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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

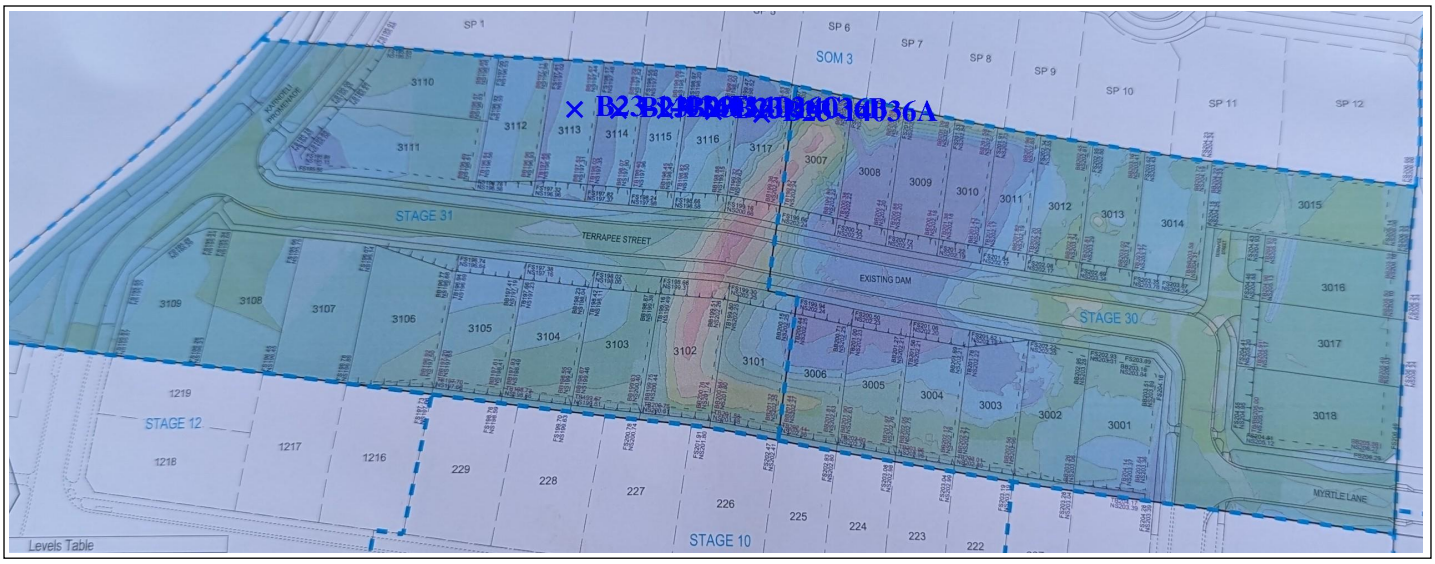
Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B23-14036A	B23-14036B	B23-14036C	B23-14036D	B23-14036E
Date Tested	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Time Tested	08:09	08:17	08:27	08:31	08:35
Test Request #/Location	Stage 31 House Block 3117	Stage 31 House Block 3116	Stage 31 House Block 3115	Stage 31 House Block 3114	Stage 31 House Blocks 3113
Chainage (m)	Rear	Rear	Rear	Rear	Rear
Location Offset (m)	Centre	Centre	Centre	Centre	Centre
Layer / Reduced Level	FSL	FSL	FSL	-300	-300
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
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 (%)	1	1	0	3	0
Field Wet Density (FWD) t/m^3	1.98	2.11	2.02	2.09	2.12
Field Dry Density (FDD) t/m^3	**	**	**	**	**
Peak Converted Wet Density t/m^3	**	**	2.01	**	2.01
Adjusted Peak Converted Wet Density t/m^3	2.02	2.03	**	2.09	**
Moisture Variation (Wv) %	**	**	2.5	**	2.0
Adjusted Moisture Variation %	2.5	3.0	**	2.5	**
Hilf Density Ratio (%)	**98.0**	**104.0**	**100.5**	**100.0**	**105.5**
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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **P17236-124**
Issue Number: 1
Date Issued: 17/10/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 31
Work Request: 14218
Date Sampled: 13/10/2023
Dates Tested: 13/10/2023 - 16/10/2023
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
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	B23-14218A	B23-14218B	
Date Tested	13/10/2023	13/10/2023	
Time Tested	13:46	13:52	
Test Request #/Location	House Blocks Lot 3114	House Blocks Lot 3115	
Chainage (m)	Rear	Rear	
Location Offset (m)	**	**	
Layer / Reduced Level	FSL	FSL	
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 (%)	3	1	
Field Wet Density (FWD) t/m^3	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	2.06	2.04	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	3.0	3.0	
Hilf Density Ratio (%)	**105.0**	**104.0**	
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: **P17236-128**
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: *amended location as per client request*
Date Issued: 22/01/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 17093
Date Sampled: 21/01/2025
Dates Tested: 21/01/2025 - 21/01/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
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	B25-17093A		
Date Tested	21/01/2025		
Time Tested	12:16		
Test Request #/Location	House Block		
Chainage (m)	Lot 3018		
Location Offset (m)	Front		
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 (%)	0		
Field Wet Density (FWD) t/m^3	2.05		
Field Dry Density (FDD) t/m^3	**		
Peak Converted Wet Density t/m^3	2.06		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	2.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**99.5**		
Compaction Method	**Standard**		
Remarks	**		

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

Report Number: **P17236-129**
Issue Number: 1
Date Issued: 22/01/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 30
Work Request: 17101
Date Sampled: 22/01/2025
Dates Tested: 22/01/2025 - 22/01/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
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	B25-17101A		
Date Tested	22/01/2025		
Time Tested	13:49		
Test Request #/Location	Stage 30 Lot 3004		
Chainage (m)	Centre		
Location Offset (m)	Middle		
Layer / Reduced Level	FSL		
Thickness of Layer (mm)	300		
Soil Description	Sandy Silty Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m^3	2.06		
Field Dry Density (FDD) t/m^3	**		
Peak Converted Wet Density t/m^3	2.12		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	2.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**97.0**		
Compaction Method	**Standard**		
Remarks	**		

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC