Imagine Estate Stages 16 Strathfieldsaye

Earthworks Supervision Report for DPJ Civil

Report 22C 0642-2 July 2023





Imagine Estate Stages 16 Strathfieldsaye

Earthworks Supervision Report

for **DPJ** Civil

Revision

Revision	Date	Authorised
22C 0642-2	26/07/2023	SEH

Distribution (this revision only)

Recipient	Format	Date
GTSS	On file	26/07/2023
DPJ Civil Contact: Darren Pitson	Email PDF	26/07/2023



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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 Imagine Estate Stage 16, 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 1607 to 1609, 1614 to 1632 and Serene Drive. The testing and level 1 certification of Lot 1605 was included in the previous GTS report – *'Imagine Estate Stages 14A & Part 15 & 16 Strathfieldsaye – 22C 0447'.*

The depth of fill across the site varied from none to around 3.0 metres in the deepest section of the dam through Serene Drive. Sites with less than 300mm of fill were not included in the Level 1 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 generally be considered large scale (greater than 1500m²) and therefore a minimum of 1 test per layer per 2500m² is required. The testing was generally conducted at 1 per lot per layer which exceeds the minimum requirements.

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, and low strength fill) had been removed with the base consisting of varying material form (Gravelly) Silty Clay to extremely weathered siltstone rock, all of which had good 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 %	Hilf Density Ratio %
1	B22-11686A	27/07/2022	Dam & Road Reserve	- 2000mm	-1.5	101.0
2	B22-11686B	27/07/2022	Dam & Road Reserve	- 2000mm	-0.5	106.0
3	B22-11688A	28/07/2022	Dam & Road Reserve	-1600	0.5	101.0
4	B22-11688B	28/07/2022	Lot 1614	FSL	1.0	102.5
5	B22-11688C	28/07/2022	Lot 1615	FSL	0.5	104.0
6	B22-11688D	28/07/2022	Lot 1616	FSL	1.0	100.0
7	B22-11688E	28/07/2022	Lot 1617	FSL	0.5	108.0
8	B22-11691A	29/07/2022	Dam & Road Reserve	-1300	-0.5	101.0
9	B22-11691B	29/07/2022	Dam & Road Reserve	-1300	0.0	99.5

Geotechnical Testing Services Report: 22C 0642-2 Report

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %	Hilf Density Ratio %
10		4/22/2222	Dam & Road	4000	0.5	100 5
	B22-11696A	1/08/2022	Reserve	-1000	-0.5	100.5
11	B22-11696B	1/08/2022	Reserve	-1000	-1.0	100.5
12	B22-11699A	2/08/2022	Dam & Road Reserve	-700	0.0	101.0
13	B22-11699B	2/08/2022	Dam & Road Reserve	-700	-0.5	102.5
14	B22-11699C	2/08/2022	Lot 1619	-1300	-1.0	101.5
15	B22-11699D	2/08/2022	Lot 1618	-500	-0.5	99.0
16	B22-11708A	3/08/2022	Dam & Road Reserve	-400	3.0	105.0
17	B22-11708B	3/08/2022	Dam & Road Reserve	-400	2.5	105.0
18	B22-11734A	10/08/2022	Lot 1622 Back Half	-650	-0.5	101 5
10	022-1173 - 7	10/00/2022	Lot 1621 Back	-000	-0.0	101.0
19	B22-11734B	10/08/2022	Half	-1000	0.0	102.5
20	B22-11734C	10/08/2022	Half	-650	0.0	103.0
21	B22-11734D	10/08/2022	Lot 1619 Back Half	-600	0.0	101.5
22	B22-11734E	10/08/2022	Lot 1618 Back Half	FSL	0.0	102.0
23	B22-11980A	11/10/2022	Lot 1621	-300	0.0	100.5
24	B22-11980B	11/10/2022	Lot 1622	-300	0.5	102.0
25	B22-11980C	11/10/2022	Lot 1623	FSL	2.0	103.5
26	B22-11980D	11/10/2022	Lot 1624	FSL	0.0	104.0
27	B22-11980E	11/10/2022	Lot 1625	FSL	0.0	104.5
28	B22-11999A	17/10/2022	Lot 1609	-300	-1.0	104.0
29	B22-11999B	17/10/2022	Lot 1608	-300	0.0	103.0
30	B22-11999C	17/10/2022	Lot 1607	-600	0.0	100.5
31	B22-12006A	18/10/2022	Lot 1609	FSL	0.0	102.5
32	B22-12006B	18/10/2022	Lot 1608	FSL	0.0	97.0
33	B22-12006C	18/10/2022	Lot 1607	-300	0.5	101.5
34	B22-12015A	20/10/2022	Lot 1622	FSL	0.0	102.0
35	B22-12015B	20/10/2022	Lot 1621	FSL	-0.5	103.0
36	B22-12015C	20/10/2022	Lot 1620	FSL	0.0	102.5
37	B22-12015D	20/10/2022	Lot 1619	-300	0.0	101.0
38	B22-12046A	3/11/2022	Lot 1607	FSL	0.5	104.5
39	B22-12046B	3/11/2022	Lot 1619	FSL	0.5	102.0
40	B22-12046C	3/11/2022	Lot 1618	FSL	1.5	104.5
41	B23-12375A	13/01/2023	Lot 1632	-300	1.0	100.5
42	B23-12375B	13/01/2023	Lot 1631	-500	1.0	103.5

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Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %	Hilf Density Ratio %
43	B23-12375C	13/01/2023	Lot 1630	-500	1.0	102.5
44	B23-12375D	13/01/2023	Lot 1629	-500	2.5	102.5
45	B23-12481A	2/02/2023	Lot 1631	-300	4.0	100.0
46	B23-12481B	2/02/2023	Lot 1630	-300	4.0	106.0
47	B23-12481C	2/02/2023	Lot 1629	-300	2.0	106.5
48	B23-12510A	6/02/2023	Lot 1628	FSL	4.0	101.5
49	B23-12510B	6/02/2023	Lot 1631	FSL	3.5	106.5
50	B23-12510C	6/02/2023	Lot 1630	FSL	3.5	100.0
51	B23-12510D	6/02/2023	Lot 1629	FSL	2.0	103.0
52	B23-12533A	10/02/2023	Lot 1628	-600	4.5	102.0
53	B23-12533B	10/02/2023	Lot 1627	-600	2.0	105.5
54	B23-12533C	10/02/2023	Lot 1626	-600	4.5	107.5
55	B23-12560A	14/02/2023	Lot 1628	-300	3.0	103.5
56	B23-12560B	14/02/2023	Lot 1627	-300	3.0	105.5
57	B23-12560C	14/02/2023	Lot 1626	-300	2.0	104.5
58	B23-12570A	16/02/2023	Lot 1628	FSL	0.0	99.5
59	B23-12570B	16/02/2023	Lot 1627	FSL	2.0	101.5
60	B23-12570C	16/02/2023	Lot 1626	FSL	1.5	100.5

*FSL = Finished Surface Level. Moisture Variation +ve dry of OMC, -ve wet of OMC

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling in Lots 1607 to 1609, 1614 to 1632 and Serene Drive. The placement of fill and construction techniques adopted was observed throughout the project. It is noted that the existing dam wall through lots 1622 to 1625 that was not fully removed. On inspection of the wall previous dam performance and longevity, this material is deemed of have suitable strength and did not need reworking.

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.

Prepared by:

Reviewed by:

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APPENDIX



Figure 1: Site plan with lot testing

Report Number:	P17236-72		
Issue Number:	1		
Date Issued:	28/07/2022		
Client:	DPJ Civil Pty Ltd		
	24 Jewell Court, Bendigo VIC 3550		
Project Number:	P17236		
Project Name:	Imagine Estate-Strathfieldsaye		
Project Location:	Stage 16		
Work Request:	11686		F
Date Sampled:	27/07/2022		
Dates Tested:	27/07/2022 - 27/07/2022	NATA	
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or		ŀ
	pavement - compacted		F
Remarks:	Density and moisture ratio results relate only to the soil depth of test and not to the full depth of the layer	WORLD RECOGNISED	
Site Selection:	Selected by Client		Г
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

TL

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

Compaction Control AS 1289 5.7.1 & 5.8	3.1		
Sample Number	B22-11686A	B22-11686B	
Date Tested	27/07/2022	27/07/2022	
Time Tested	12:44	12:47	
Test Request #/Location	Imagine Estate Stage 16 Back fill of dam and existing road (serene drive)	Imagine Estate Stage 16 Back fill of dam and existing road (serene drive)	
Easting	265755	265786	
Northing	5923844	5923894	
Layer / Reduced Level	-2000mm	-2000mm	
Thickness of Layer (mm)	400	400	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	300	300	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.16	2.30	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.15	2.18	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	-1.5	-0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	101.0	106.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Material Source:

Report Number:	P17236-73
Issue Number:	1
Date Issued:	29/07/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11688
Date Sampled:	28/07/2022
Dates Tested:	28/07/2022 - 28/07/2022
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks:	
Site Selection:	Selected by Client

Test Location



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Compaction Control AS 1289 5.7.1 & 5.8	.1				
Sample Number	B22-11688A	B22-11688B	B22-11688C	B22-11688D	B22-11688E
Date Tested	28/07/2022	28/07/2022	28/07/2022	28/07/2022	28/07/2022
Time Tested	10:27	10:37	10:40	10:46	10:50
Test Request #/Location	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	Stage 16 Imagine estate Lot 1614	Stage 16 Imagine estate Lot 1615	Stage 16 Imagine estate Lot 1616	Stage 16 Imagine estate Lot 1617
Easting	265785	265746	265765	265787	265796
Northing	5923896	5923881	5923878	5923879	5923876
Layer / Reduced Level	-1600	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	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 (%)	4	4	2	0	0
Field Wet Density (FWD) t/m ³	2.19	2.20	2.21	2.15	2.27
Field Moisture Content %	13.6	11.5	12.8	10.7	13.6
Field Dry Density (FDD) t/m ³	1.93	1.97	1.96	1.94	2.00
Peak Converted Wet Density t/m ³	**	**	**	2.15	2.10
Adjusted Peak Converted Wet Density t/m ³	2.17	2.14	2.12	**	**
Moisture Variation (Wv) %	**	**	**	1.0	0.5
Adjusted Moisture Variation %	0.5	1.0	0.5	**	**
Hilf Density Ratio (%)	101.0	102.5	104.0	100.0	108.0
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

Report Number:	P17236-74
Issue Number:	1
Date Issued:	01/08/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11691
Date Sampled:	29/07/2022
Dates Tested:	29/07/2022 - 29/07/2022
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



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Control AS 1289 5 7 1 8 5 8

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Sample Number	B22-11691A	B22-11691B	
Date Tested	29/07/2022	29/07/2022	
Time Tested	08:22	08:27	
Test Request #/Location	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	
Easting	265769	265783	
Northing	5923892	5923892	
Layer / Reduced Level	-1300	-1300	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.19	2.14	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.17	2.15	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	-0.5	0.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	101.0	99.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Report Number:	P17236-75
Issue Number:	1
Date Issued:	02/08/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11696
Date Sampled:	01/08/2022
Dates Tested:	01/08/2022 - 01/08/2022
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



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Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B22-11696A	B22-11696B	
Date Tested	01/08/2022	01/08/2022	
Time Tested	10:12	10:15	
Test Request #/Location	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	
Easting	265763	265785	
Northing	5923894	5923895	
Layer / Reduced Level	-1000	-1000	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.20	2.19	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.19	2.18	
Adjusted Peak Converted Wet Density t/m3	**	**	
Moisture Variation (Wv) %	-0.5	-1.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	100.5	100.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Report Number:	P17236-76
Issue Number:	1
Date Issued:	02/08/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11699
Date Sampled:	02/08/2022
Dates Tested:	02/08/2022 - 02/08/2022
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



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Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B22-11699A	B22-11699B	B22-11699C	B22-11699D	
Date Tested	02/08/2022	02/08/2022	02/08/2022	02/08/2022	
Time Tested	10:09	10:12	10:22	10:27	
Test Request #/Location	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	Stage 16 Imagine estate Back fill of damn and existing road (serene drive)	Stage 16 Imagine estate Block 1619	Stage 16 Imagine estate Block 1618	
Easting	265768,	265787,	265702,	265689,	
Northing	5923888	5923888	5923938	5923943	
Layer / Reduced Level	-700	-700	-1300	-500	
Thickness of Layer (mm)	300	300	300	300	
Soil Description	Silty Clay	Silty Clay	Silty Clay	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 (%)	0	0	0	0	
Field Wet Density (FWD) t/m ³	2.20	2.17	2.19	2.17	
Field Dry Density (FDD) t/m ³	**	**	**	**	
Peak Converted Wet Density t/m ³	2.18	2.12	2.16	2.19	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	0.0	-0.5	-1.0	-0.5	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	101.0	102.5	101.5	99.0	
Compaction Method	Standard	Standard	Standard	Standard	
Report Remarks	**	**	**	**	

Moisture Variation Note:

Report Number:	P17236-77
Issue Number:	1
Date Issued:	04/08/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11708
Date Sampled:	03/08/2022
Dates Tested:	03/08/2022 - 03/08/2022
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



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

C Control AS 1289 5 7 1 & 5 8 1

Sample Number	B22-11708A	B22-11708B	
Date Tested	03/08/2022	03/08/2022	
Time Tested	14:08	14:11	
Test Request #/Location	Stage 16 Back fill of damn and existing road (serene drive)	Stage 16 Back fill of damn and existing road (serene drive)	
Easting	265777	265790	
Northing	5923893 (Zone 55H), 195 m	5923893 (Zone 55H), 200 m	
Layer / Reduced Level	-400	-400	
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 (%)	0	0	
Field Wet Density (FWD) t/m ³	2.13	2.17	
Field Dry Density (FDD) t/m ³	**	**	
Peak Converted Wet Density t/m ³	2.03	2.07	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	3.0	2.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	105.0	105.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

Moisture Variation Note:

Report Number:	P17236-78
Issue Number:	1
Date Issued:	11/08/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate-Strathfieldsaye
Project Location:	Stage 16
Work Request:	11734
Date Sampled:	10/08/2022
Dates Tested:	10/08/2022 - 11/08/2022
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



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Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B22-11734A	B22-11734B	B22-11734C	B22-11734D	B22-11734E
Date Tested	10/08/2022	10/08/2022	10/08/2022	10/08/2022	10/08/2022
Time Tested	11:05	11:11	11:17	11:23	11:29
Test Request #/Location	Stage 16 Block 1622 Back Half	Stage 16 Block 1621 Back Half	Stage 16 Block 1620 Back Half	Stage 16 Block 1619 Back Half	Stage 16 Block 1618 Back Half
Easting	265745,	265735,	265718,	265701,	265686,
Northing	5923928	5923935	5923937	5923941	5923935
Layer / Reduced Level	-650	-1000	-650	-600	FSL
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Silty Gravelly 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 (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.18	2.20	2.18	2.17	2.18
Field Dry Density (FDD) t/m ³	**	**	**	**	**
Peak Converted Wet Density t/m ³	2.15	2.15	2.11	2.15	2.14
Adjusted Peak Converted Wet Density t/m3	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	101.5	102.5	103.0	101.5	102.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**	**

Moisture Variation Note:

Report Number:	P17236-82
Issue Number:	1
Date Issued:	11/10/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	11980
Date Sampled:	11/10/2022
Dates Tested:	11/10/2022 - 11/10/2022
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

atrol AS 1200 5 7 1 9 5



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B22-11980E

11/10/2022

12:05

House Block

Lot 1625 Back

from CL FSL 300

Silty Gravelly Clay 275 19.0 0 2.25

**

2.15

**

0.0

**

104.5

Standard

**

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2.11

**

2.0

**

103.5

Standard

**

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2.11

**

0.0

**

104.0

Standard

**

Compaction Control / 200 0.1.1 & 0.0	• •			
Sample Number	B22-11980A	B22-11980B	B22-11980C	B22-11980D
Date Tested	11/10/2022	11/10/2022	11/10/2022	11/10/2022
Time Tested	11:48	11:53	11:57	12:00
Test Request #/Location	House Block Lot 1621	House Block Lot 1622	House Block Lot 1623	House Block Lot 1624
Chainage (m)	Back	Back	Back	Back
Location Offset (m)	from CL	from CL	from CL	from CL
Layer / Reduced Level	-300	-300	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly 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 (%)	0	0	0	0
Field Wet Density (FWD) t/m ³	2.14	2.20	2.18	2.19
Field Dry Density (FDD) t/m ³	**	**	**	**

2.15

**

0.5

**

102.0

Standard

**

2.13

**

Adjusted Peak Converted Wet Density Moisture Variation (Wv) % 0.0 ** Adjusted Moisture Variation % Hilf Density Ratio (%) 100.5 **Compaction Method** Standard Report Remarks **

Moisture Variation Note:

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

Peak Converted Wet Density t/m³

Report Number:	P17236-83
Issue Number:	1
Date Issued:	17/10/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	11999
Date Sampled:	17/10/2022
Dates Tested:	17/10/2022 - 17/10/2022
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



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Compaction Control AS 1289 5.7.1 & 5.8.1

Compaction Control AS 1209 5.7.1 & 5.0			
Sample Number	B22-11999A	B22-11999B	B22-11999C
Date Tested	17/10/2022	17/10/2022	17/10/2022
Time Tested	11:14	11:19	11:23
Test Request #/Location	House Block Lot 1609	House Block Lot 1608	House Block Lot 1607
Chainage (m)	Centre	Centre	Centre
Location Offset (m)	**	**	**
Layer / Reduced Level	-300	-300	-600
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	0	0
Field Wet Density (FWD) t/m ³	2.20	2.21	2.19
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.12	2.15	**
Adjusted Peak Converted Wet Density t/m	**	**	2.18
Moisture Variation (Wv) %	-1.0	0.0	**
Adjusted Moisture Variation %	**	**	0.0
Hilf Density Ratio (%)	104.0	103.0	100.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P17236-84
Issue Number:	1
Date Issued:	19/10/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12006
Date Sampled:	18/10/2022
Dates Tested:	18/10/2022 - 19/10/2022
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



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Compaction Control AS 1289 5.7.1 & 5.8.1

Compaction Control AS 1209 5.7.1 & 5.0			
Sample Number	B22-12006A	B22-12006B	B22-12006C
Date Tested	18/10/2022	18/10/2022	18/10/2022
Time Tested	15:06	15:11	15:17
Test Request #/Location	House Block Lot 1609	House Block Lot 1608	House Block Lot 1607
Easting	265711, (Zone 55H), 199 m	265687, (Zone 55H), 198 m	265673, (Zone 55H), 196 m
Northing	5923839	5923843	5923846
Layer / Reduced Level	FSL	FSL	-300
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	0	0
Field Wet Density (FWD) t/m ³	2.22	2.12	2.20
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.16	2.18	2.16
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	97.0	101.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

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Compaction Control AS 1289 5.7.1 & 5.8	3.1			
Sample Number	B22-12015A	B22-12015B	B22-12015C	B22-12015D
Date Tested	20/10/2022	20/10/2022	20/10/2022	20/10/2022
Time Tested	08:08	08:13	08:18	08:21
Test Request #/Location	House Block Lot 1622	House Block Lot 1621	House Block Lot 1620	House Block Lot 1619
Chainage (m)	Back	Back	Back	Back
Location Offset (m)	**	**	**	**
Layer / Reduced Level	FSL	FSL	FSL	-300
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 (%)	0	6	0	0
Field Wet Density (FWD) t/m ³	2.17	2.22	2.25	2.17
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.13	**	2.19	2.15
Adjusted Peak Converted Wet Density	**	2.15	**	**
Moisture Variation (Wv) %	0.0	**	0.0	0.0
Adjusted Moisture Variation %	**	-0.5	**	**
Hilf Density Ratio (%)	102.0	103.0	102.5	101.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Report Number:	P17236-86
Issue Number:	1
Date Issued:	03/11/2022
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12046
Date Sampled:	03/11/2022
Dates Tested:	03/11/2022 - 03/11/2022
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



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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

Compaction Control AS 1209 5.7.1 & 5.0			
Sample Number	B22-12046A	B22-12046B	B22-12046C
Date Tested	03/11/2022	03/11/2022	03/11/2022
Time Tested	11:24	11:31	11:34
Test Request #/Location	House Blocks Lot 1607	House Blocks Lot 1619	House Blocks Lot 1618
Chainage (m)	Back	Centre	Centre
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 (%)	1	1	4
Field Wet Density (FWD) t/m ³	2.25	2.20	2.22
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m	2.16	2.15	2.13
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.5	0.5	1.5
Hilf Density Ratio (%)	104.5	102.0	104.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P17236-94
Issue Number:	1
Date Issued:	16/01/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12375
Date Sampled:	13/01/2023
Dates Tested:	13/01/2023 - 14/01/2023
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



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Compaction Control AS 1289 5.7.1 & 5.8.1						
Sample Number	B23-12375A	B23-12375B	B23-12375C	B23-12375D		
Date Tested	13/01/2023	13/01/2023	13/01/2023	13/01/2023		
Time Tested	09:52	09:56	09:59	10:02		
Test Request #/Location	House Block Lot 1632	House Block Lot 1631	House Block Lot 1630	House Block Lot 1629		
Chainage (m)	Centre	Centre	Centre	Centre		
Location Offset (m)	**	**	**	**		
Layer / Reduced Level	-300	-500	-500	-500		
Thickness of Layer (mm)	300	300	300	300		
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy 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 (%)	5	0	1	1		
Field Wet Density (FWD) t/m ³	2.20	2.23	2.17	2.18		
Field Dry Density (FDD) t/m ³	**	**	**	**		
Peak Converted Wet Density t/m ³	**	2.15	**	**		
Adjusted Peak Converted Wet Density t/m ³	2.18	**	2.12	2.13		
Moisture Variation (Wv) %	**	1.0	**	**		
Adjusted Moisture Variation %	1.0	**	1.0	2.5		
Hilf Density Ratio (%)	100.5	103.5	102.5	102.5		
Compaction Method	Standard	Standard	Standard	Standard		
Report Remarks	**	**	**	**		

Moisture Variation Note:

Report Number:	P17236-95
Issue Number:	1
Date Issued:	04/02/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12481
Date Sampled:	02/02/2023
Dates Tested:	02/02/2023 - 04/02/2023
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



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Compaction Control AS 1289 5 7 1 & 5 8 1

Sample Number	B23-12481A	B23-12481B	B23-12481C
Date Tested	02/02/2023	02/02/2023	02/02/2023
Time Tested	07:28	07:33	07:36
Test Request #/Location	House Block Lot 1631	House Block Lot 1630	House Block Lot 1629
Chainage (m)	Centre	Centre	Centre
Location Offset (m)	**	**	**
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 (%)	1	0	0
Field Wet Density (FWD) t/m ³	2.06	2.17	2.24
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	2.04	2.10
Adjusted Peak Converted Wet Density t/m ³	2.05	**	**
Moisture Variation (Wv) %	**	4.0	2.0
Adjusted Moisture Variation %	4.0	**	**
Hilf Density Ratio (%)	100.0	106.0	106.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P17236-96
Issue Number:	1
Date Issued:	07/02/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court, Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12510
Date Sampled:	06/02/2023
Dates Tested:	06/02/2023 - 07/02/2023
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



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Compaction Control AS 1289 5.7.1 & 5.8	8.1			
Sample Number	B23-12510A	B23-12510B	B23-12510C	B23-12510D
Date Tested	06/02/2023	06/02/2023	06/02/2023	06/02/2023
Time Tested	16:48	16:51	16:54	16:57
Test Request #/Location	House Blocks Lot 1682	House Blocks Lot 1631	House Blocks Lot 1630	House Blocks Lot 1629
Chainage (m)	Centre	Back	Back	Back
Location Offset (m)	**	**	**	**
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	250	250	250
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	275	225	225	225
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	1	0
Field Wet Density (FWD) t/m ³	2.06	2.13	2.03	2.14
Field Dry Density (FDD) t/m ³	**	**	**	**
Peak Converted Wet Density t/m ³	2.03	2.00	**	2.08
Adjusted Peak Converted Wet Density	**	**	2.04	**
Moisture Variation (Wv) %	4.0	3.5	**	2.0
Adjusted Moisture Variation %	**	**	3.5	**
Hilf Density Ratio (%)	101.5	106.5	100.0	103.0
Compaction Method	Standard	Standard	Standard	Standard
Report Remarks	**	**	**	**

Moisture Variation Note:

Report Number:	P17236-97
Issue Number:	1
Date Issued:	10/02/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12533
Date Sampled:	10/02/2023
Dates Tested:	10/02/2023 - 10/02/2023
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



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Compaction Control AS 1289 5.7.1 & 5.8.1

Sample Number	B23-12533A	B23-12533B	B23-12533C
Date Tested	10/02/2023	10/02/2023	10/02/2023
Time Tested	07:21	07:25	07:30
Test Request #/Location	House Blocks Lot 1628	House Blocks Lot 1627	House Blocks Lot 1626
Chainage (m)	Back	Back	Back
Location Offset (m)	**	**	**
Layer / Reduced Level	-600	-600	-600
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Clay	Gravelly Clay	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	1	2
Field Wet Density (FWD) t/m ³	2.03	2.17	2.19
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	2.00	**	**
Adjusted Peak Converted Wet Density	**	2.05	2.04
Moisture Variation (Wv) %	4.5	**	**
Adjusted Moisture Variation %	**	2.0	4.5
Hilf Density Ratio (%)	102.0	105.5	107.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P17236-98
Issue Number:	1
Date Issued:	16/02/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12560
Date Sampled:	14/02/2023
Dates Tested:	14/02/2023 - 15/02/2023
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



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Control AS 1289 5 7 1 8 5 8 1

Sample Number	B23-12560A	B23-12560B	B23-12560C
Date Tested	14/02/2023	14/02/2023	14/02/2023
Time Tested	15:26	15:31	15:34
Test Request #/Location	House Blocks Lot 1628	House Blocks Lot 1627	House Blocks Lot 1626
Chainage (m)	Back	Back	Back
Location Offset (m)	**	**	**
Layer / Reduced Level	-300	-300	-300
Thickness of Layer (mm)	300	300	300
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	1	1	3
Field Wet Density (FWD) t/m ³	2.12	2.14	2.19
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density	2.05	2.03	2.09
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	3.0	3.0	2.0
Hilf Density Ratio (%)	103.5	105.5	104.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note:

Report Number:	P17236-99
Issue Number:	1
Date Issued:	20/02/2023
Client:	DPJ Civil Pty Ltd
	24 Jewell Court , Bendigo VIC 3550
Project Number:	P17236
Project Name:	Imagine Estate - Strathfieldsaye
Project Location:	Stage 16
Work Request:	12570
Date Sampled:	16/02/2023
Dates Tested:	16/02/2023 - 20/02/2023
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

NATA 1/1 WORLD RECOGNISED

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

Sample Number	B23-12570A	B23-12570B	B23-12570C
Date Tested	16/02/2023	16/02/2023	16/02/2023
Time Tested	07:55	07:59	08:02
Test Request #/Location	House Blocks Lot 1628	House Blocks Lot 1627	House Blocks Lot 1626
Chainage (m)	Back	Back	Backk
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)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	3	1	3
Field Wet Density (FWD) t/m ³	2.13	2.12	2.12
Field Dry Density (FDD) t/m ³	**	**	**
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	2.14	2.10	2.11
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	0.0	2.0	1.5
Hilf Density Ratio (%)	99.5	101.5	100.5
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

Moisture Variation Note: