Forest Ridge Estate Stage 3
Strathfieldsaye

Earthworks Supervision Report for Winslow Constructors

Report 25C 0052 -2
December 2025

GTS
GEOTECHNICAL TESTING SERVICES

Forest Ridge Estate Stage 3

Strathfieldsaye Road
Strathfieldsaye

Earthworks Supervision Report

For

Winslow Constructors Pty Ltd

Revision	Date	Authorised
25C 0052-2	15/12/2025	SEH

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1 INTRODUCTION

Winslow Constructors commissioned Geotechnical Testing Services (GTS) to undertake Level 1 supervision and testing (AS3798-2007) for the earthworks undertaken for the lot fill at Forest Ridge Estate Stage 3, 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 placement 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 (GTS) provided Level 1 inspection and testing for the backfilling of Lots 16 to 21.

2.2 PLACEMENT SPECIFICATION

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 client’s requirements.

In summary, the earthworks comply with the following:

- The lot and trench backfill for residential lots is 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 1500m^2) and therefore a minimum of 1 test per layer per 2500m^2 is required or 3 tests per visit. The testing conducted was generally 1 test per 1000m^2 per layer which exceeds the minimum requirements.

3 INSPECTION AND TESTING

Inspections of the excavated base was conducted by a Geotechnical Engineer before the placement of controlled fill. It was observed that the base consisted of a silty clay with all previous trench backfill and pipes or silt/wet material having been removed.

Level 1 inspection and testing was undertaken by both Geotechnical 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 site 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 tables with full NATA accredited reports included in the Appendix.

Table 1: Compaction Result Summary

Project No.	Sample No.	Test Date	Location	Reduced Level	Moisture Variation (MV %)	Standard Density Ratio %
1	B25-17145A	29/01/2025	Lot 20/21	FSL	1.5	94.5
2	B25-17145B	29/01/2025	Lot 19	FSL	2.5	93.0
3	B25-17145C	29/01/2025	Lot 16	-250	0.5	92.5
4 (RT1)	B25-17154A	30/01/2025	Lot 20/21	FSL	0.5	95.0
5 (RT2)	B25-17154B	30/01/2025	Lot 19	FSL	1.5	93.5
6 (RT3)	B25-17154C	30/01/2025	Lot 16	-250	1.5	96.0
7	B25-17154D	30/01/2025	Lot 16	FSL	2.0	94.0
8	B25-17154E	30/01/2025	Lot 17	FSL	3.0	95.5
9 (RT5)	B25-17167A	31/01/2025	Lot 19	FSL	2.5	98.5
10 (RT7)	B25-17167B	31/01/2025	Lot 16	FSL	2.0	98.5

Note: For Moisture variation -ve is wet and +ve is dry of Optimum Moisture Content

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of the fill material across lots 16 to 21 at Forest Ridge Estate Stage 3. The placement of the fill and construction techniques adopted were observed throughout the project.

Based on observations made by GTS personnel and the results of field and laboratory tests (including retests'), we consider that the backfill has been placed and compacted sufficiently and is considered to be engineered or controlled Level 1 fill in accordance with the construction drawings and guidance provided in AS 3798-2007.

It is noted that topsoil material may be spread across the lots following the completion of the earthworks, and that this topsoil is not considered to be controlled fill and should only be considered suitable for landscaping purposes.

Therefore, subject to residential site classifications, the controlled fill material may be considered for footings of future buildings.

Please, don't hesitate to contact the undersigned, if you require any further information or assistance.

Regards,

Reviewed by:

Shane Hampton (BE (Hons)) MIEAust
Principal Geotechnical Engineer

Telephone: (03) 5441 4881
Email: shaneh@gts.com.au

APPENDIX

Fig 1: Site Plan

Material Test Report

Report Number: **P242800-4**
Issue Number: 1
Date Issued: 30/01/2025
Client: Winslow Constructors

Project Number: P242800
Project Name: Forest Ridge
Project Location: Strathfieldsaye
Client Reference: JOB no. 18310
Work Request: 17145
Date Sampled: 29/01/2025
Dates Tested: 29/01/2025 - 30/01/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Stage 3 - Strathfieldsaye
Material Source: Test Location

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

Accredited for compliance with ISO/IEC 17025 - Testing

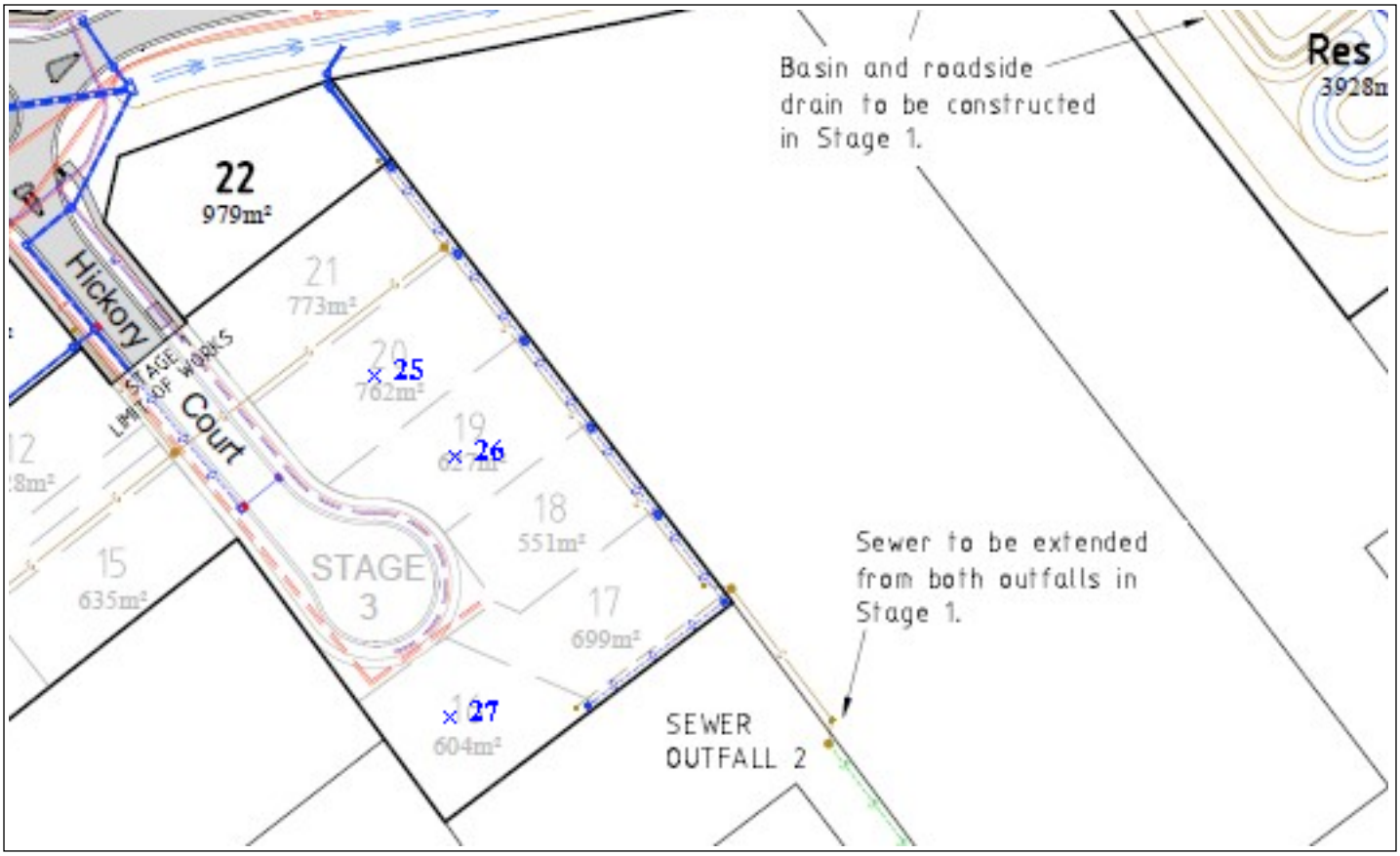
Approved Signatory: Tyler Webb
Laboratory Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-17145A	B25-17145B	B25-17145C
Test Number	25	26	27
Date Tested	29/01/2025	29/01/2025	29/01/2025
Time Tested	14:50	14:55	15:07
Test Request #/Location	Stage 3 House Blocks	Stage 3 House Blocks	Stage 3 House Blocks
Chainage (m)	Lot 20	Lot 19	Lot 16
Location Offset (m)	Centre	Centre	Centre
Layer / Reduced Level	FSL	FSL	-250
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy 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	1.97	1.93	1.96
Field Dry Density (FDD) t/m^3	**	**	**
Peak Converted Wet Density t/m^3	2.09	2.08	2.12
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	1.5	2.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**94.5**	**93.0**	**92.5**
Compaction Method	**Standard**	**Standard**	**Standard**
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: **P242800-5**
Issue Number: 1
Date Issued: 31/01/2025
Client: Winslow Constructors

Project Number: P242800
Project Name: Forest Ridge
Project Location: Strathfieldsaye
Client Reference: JOB no. 18310
Work Request: 17154
Date Sampled: 30/01/2025
Dates Tested: 30/01/2025 - 31/01/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Strathfieldsaye - Stage 3
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

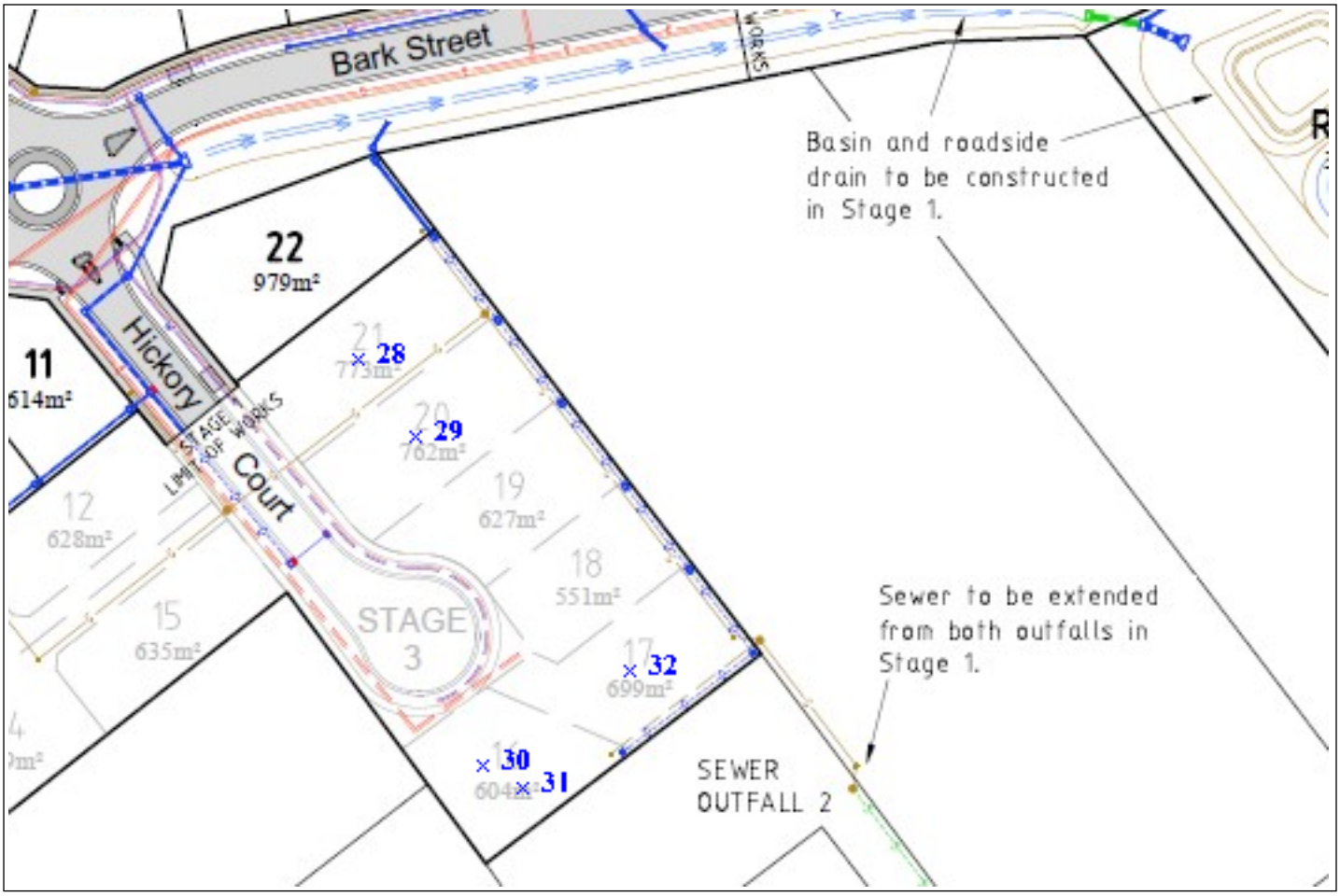
Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1					
Sample Number	B25-17154A	B25-17154B	B25-17154C	B25-17154D	B25-17154E
Test Number	28	29	30	31	32
Date Tested	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Time Tested	13:02	13:05	13:10	13:16	13:19
Test Request #/Location	Retest for B25-17145A Stage 3 / House Blocks	Retest for B25-17145B Stage 3 / House Blocks	Retest for B25-17145C Stage 3 / House Blocks	Stage 3 / House Blocks	Stage 3 / House Blocks
Chainage (m)	Lot 20	Lot 19	Lot 16	Lot 16	Lot 17
Location Offset (m)	Centre	Centre	Centre	Rear Centre	Centre
Layer / Reduced Level	FSL	FSL	-250	FSL	FSL
Thickness of Layer (mm)	300	300	300	250	250
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	275	275	275	225	225
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	2	0	0	0	0
Field Wet Density (FWD) t/m^3	2.03	2.01	2.04	2.00	1.99
Field Dry Density (FDD) t/m^3	**	**	**	**	**
Peak Converted Wet Density t/m^3	**	2.15	2.13	2.13	2.08
Adjusted Peak Converted Wet Density t/m^3	2.14	**	**	**	**
Moisture Variation (Wv) %	**	1.5	1.5	2.0	3.0
Adjusted Moisture Variation %	0.5	**	**	**	**
Hilf Density Ratio (%)	**95.0**	**93.5**	**96.0**	**94.0**	**95.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**	**Standard**
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: **P242800-6**
Issue Number: 1
Date Issued: 03/02/2025
Client: Winslow Constructors

Project Number: P242800
Project Name: Forest Ridge
Project Location: Strathfieldsaye
Client Reference: JOB no. 18310
Work Request: 17167
Date Sampled: 31/01/2025
Dates Tested: 31/01/2025 - 03/02/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Location: Strathfieldsaye - Stage 3
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
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	B25-17167A	B25-17167B	
Test Number	33	34	
Date Tested	31/01/2025	31/01/2025	
Time Tested	15:22	15:26	
Test Request #/Location	Retest for B25-17154B Stage 3 / House Blocks	Retest for B25-17154D Stage 3 / House Blocks	
Chainage (m)	Lot 19	Lot 16	
Location Offset (m)	Centre	Centre	
Layer / Reduced Level	FSL	FSL	
Thickness of Layer (mm)	300	250	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	225	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.06	2.06	
Field Dry Density (FDD) t/m^3	**	**	
Peak Converted Wet Density t/m^3	2.09	2.09	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.5	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**98.5**	**98.5**	
Compaction Method	**Standard**	**Standard**	
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