



Pearce Geotech

SHERWOOD GRANGE STAGE 8A

Level One Report

Winslow Constructors Pty Ltd

P252320

30th September 2025

30th September 2025

Winslow Constructors Pty Ltd
Level 1, 6 English Street
Essendon Fields, VIC, 3041

Attention: Michael Di Martino

Dear Michael

RE: Sherwood Grange Stage 8A
Level 1 Compaction Control

This letter presents a report by Pearce Geotech Pty Ltd (PG) on Level 1 Testing Services undertaken during the construction of fill at Sherwood Grange Stage 8A. One electronic copy provided.

Please do not hesitate to contact the undersigned should there be any queries regarding this report.

For and on behalf of Pearce Geotech Pty Ltd



Regards

Mitch Francis

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1 INTRODUCTION

This report presents the results of compaction control and laboratory testing services provided by Pearce Geotech Pty Ltd (PG) during the construction of fill at Sherwood Grange Stage 8A.

PG was engaged by Winslow Constructors Pty Ltd to provide Level 1 testing services for the duration of these works in accordance with the specification supplied. The work was commissioned by Mr Michael Di Martino of Winslow Constructors.

Level 1 testing, as defined in AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development", provides for full-time 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 technicians from PG on the 23rd September 2025.

2 SCOPE OF WORK

2.1 Area of Work

PG provided Level 1 testing and supervision of the construction filling placed. Material selection and condition, as well as compaction testing, were conducted during the construction of this fill.

This report does not include fill other than where mentioned in this report or any other fill that may be placed during this period or subsequent periods at or surrounding the subject site.

2.2 Placement Specification

While no earthworks specification was supplied, the fill placement and testing requirements for the structural fill were derived from AS 3798 "Guidelines on earthworks for commercial and residential developments" – Table 5.1, with the minimum density ratio as item Two (2) below;

TABLE 5.1
MINIMUM RELATIVE COMPACTION

Item	Application	Minimum relative compaction, %	
		Minimum density ratio (at standard compactive effort) (Cohesive soils) (see Note 1)	Minimum density index (Cohesionless soils) (see Note 2)
1	Residential—lot, fill, house, sites	95 (see Note 3)	70
2	Commercial—fills to support minor loadings, including floor loadings of up to 20 kPa and isolated pad or strip footings to 100 kPa	98 (see Note 4)	75
3	Fill to support pavements (see Note 5)		
	(a) General fill	95	70
	(b) Subgrade (to a depth of 0.3 m)	98	75

3 CONSTRUCTION PLANT

The following construction plant was used on site as required:

- 1 x Excavator
- 1 x Grader
- 1 x Pad Foot Roller
- 1 x Water Cart

4 INSPECTION AND TESTING

4.1 Construction Materials

Clay was used as fill for this project.

Fill material was sourced from:

- Onsite Cuts

All material was tested for compliance, spread and watered to achieve the specified density and moisture specification.

4.2 Fill Placement

Initial site inspection showed fill areas as per the attached site plan. These areas were consecutively stripped of all deleterious silty topsoil, organic matter and existing fill down to a Silty Clay. These areas were then compacted with a smooth drum roller and proof rolled with a loaded dump truck.

Compaction tests and a proof roll were conducted on each tested layer of compacted fill to ensure compliance with the specification and samples of the fill material were tested in PG's NATA accredited laboratory (Accreditation Number 18877) to determine the Hilf density ratio and moisture ratio of the material. In total 6 field density tests, 6 Hilf rapid compaction tests and 6 moisture contents were conducted.

Control Fill material was placed by dump truck, spread by grader, simultaneously water conditioned wherever required and compacted. Where the material appeared too wet, dry soil was mixed in and processed to a homogenous state.

4.2.1 Test Summary

Field No.	Date	Location	Layer	Min. Ratio [%]	Density Ratio [%]
25-35837A	22/9/2025	Lots 806 - 804	Lift 1	98% Std	99
25-35837B	22/9/2025	Lots 806 - 804	Lift 1	98% Std	100
25-35837C	22/9/2025	Lots 806 - 804	Lift 1	98% Std	98
25-35837D	22/9/2025	Lots 806 - 804	Lift 2	98% Std	99.5
25-35837E	22/9/2025	Lots 806 - 804	Lift 2	98% Std	98.5
25-35837F	22/9/2025	Lots 806 - 804	Lift 2	98% Std	98

5 STATEMENT OF COMPLIANCE

PG personnel have provided Level 1 inspection and testing services during construction of the fill at Sherwood Grange Stage 8A. A technician from PG was on site on a fulltime basis during fill placement and observed the construction techniques adopted.

Based on these observations made by PG personnel and the results of field and laboratory tests, we consider that the fill has been placed in accordance with the intent of the specification.

For and on behalf of Pearce Geotech Pty Ltd

Regards



Anthony Green
Senior Technician



Appendix A

Test Results

Material Test Report

Report Number: P252472-1
Issue Number: 1
Date Issued: 25/09/2025
Client: Winslow Constructors Pty Ltd
Level 1, 6 English Street, Essendon Fields Vic 3041
Project Number: P252472
Project Name: Sherwood Grange - Stage 8A
Project Location: Sunbury
Work Request: 35837
Date Sampled: 22/09/2025
Dates Tested: 23/09/2025 - 23/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: TRN 19470
Specification: 98% Standard
Location: TRN 19470
Material: Clay
Material Source: Insitu



Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Anthony Green
Senior Technician

NATA Accredited Laboratory Number: 18877

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	25-35837A	25-35837B	25-35837C	25-35837D	25-35837E	25-35837F
Date Tested	22/09/2025	22/09/2025	22/09/2025	22/09/2025	22/09/2025	22/09/2025
Time Tested	13:35	13:40	13:46	13:52	13:58	14:05
Test Request #/Location	Lot 806 - Lot 804	Lot 806 - Lot 804	Lot 806 - Lot 804	Lot 806 - Lot 804	Lot 806 - Lot 804	Lot 806 - Lot 804
Layer / Reduced Level	Lift 1	Lift 1	Lift 1	Lift 2	Lift 2	Lift 2
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	175	175	175	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.85	1.87	1.82	1.86	1.83	1.81
Field Moisture Content %	15.2	17.0	14.7	15.2	19.4	17.8
Field Dry Density (FDD) t/m ³	1.61	1.60	1.58	1.61	1.53	1.54
Peak Converted Wet Density t/m ³	1.87	1.87	1.85	1.86	1.86	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.0	100.0	98.0	99.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

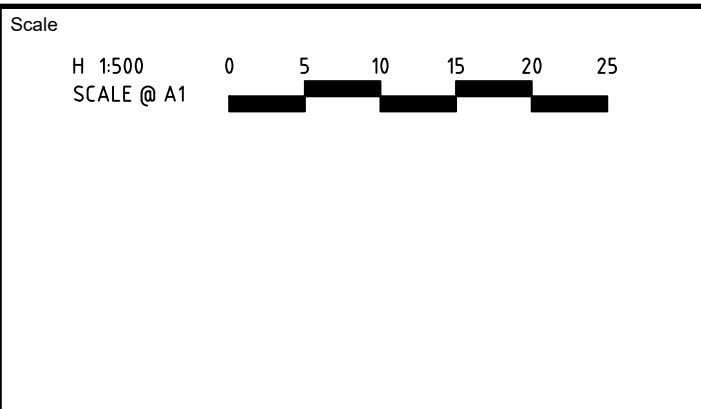
Positive values = test is dry of OMC

Negative values = test is wet of OMC



file name: 305954CR200.dwg, layout name: CR200, plotted by: Theah Nguyen, file location: \\spire.com.au\media\305954\305954.dwg, plot date: 16/04/2025 2:23 PM, Sheet: 2 of 15, Sheets

Rev	Amendments	Approved	Date
3	LOT LAYOUT, EARTHWORKS AND SERVICES AMENDED	M.T-S	16/04/25
2	SWD SIZE LABEL ADDED	M.T-S	24/07/24
1	LOTS, LOT NO, EW, RW, DRAINAGE, OUTFALL DRAIN, STAGE BOUNDARY & NOTES AMENDED	M.T-S	02/05/24
0	ISSUED FOR CONSTRUCTION	M.T-S	25/03/24
E	RETAINING WALL TYPE AMENDED, TBMS ADDED	M.T-S	01/03/24
D	STAGE BOUNDARY AMENDED	M.T-S	15/12/23
C	BATTER, PRAM CROSSING & DRIVEWAY AMENDED, FENCE & NOTE ADDED	M.T-S	14/11/23
B	EW, DRIVEWAY, LEVELS, SERVICES, EASEMENT, RW, & SHARED PATH AMENDED	M.T-S	02/08/23



System Certified

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Sherwood Grange

Designed T. NGUYEN	Checked L. TRAN
Authorised M. TOOMER-SMITH	Date 24/03/23

**SHERWOOD GRANGE
STAGE 8A
ROAD AND DRAINAGE
FACE PLAN**

HUME CITY COUNCIL
RACECOURSE ROAD HOLDING PTY LTD

CONSTRUCTION 305954CR200

Rev **3**