



Australian Geotechnical Testing

Level One Inspection and Testing

Project No: AGTE250671

Project: Aberdeen Estate Stage B

Suburb: Winter Valley



Client: Wayne Horne Earthmoving

Date: 20th October 2025

Geotechnical	Pavement	Environmental	Residential	Design
Slope Stability Assessment	Land Capability Assessments	Erosion and Sediment Control Plan		
Retaining Walls	Level 1 Supervision	Earthworks Specification's	Percolation	

Adelaide | Brisbane | Ballarat | Melbourne | Warrnambool

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1 Introduction

Australian Geotechnical Testing (AGT) has been engaged by Wayne Horne Earthmoving to provide Level 1 Geotechnical Supervision for the Aberdeen Estate – Stage B, Winter Valley.

This Level 1 report presents the results of supervision activities, compaction and moisture control, material placement and laboratory testing for ground works undertaken for the project. This report covers construction activities carried out from 30th September 2024 to 20th June 2025.

2 Scope of Works

The scope of works involved the placement of imported and on-site General Fill. Fill Material was placed in Level one fill areas, in accordance with **AS 3798-2007, *Guidelines on earthworks for commercial and residential developments and project specifications***. The level of FILL to be placed is less than 5m as per AS3798 Section 1.1.

The fill material is required as per AS3798 and the project specification to achieve a minimum density ratio of:

- 95% Standard Maximum Dry Density (Compaction)

General fill material used for the construction was locally sourced and predominantly comprising CLAY.

3 Inspections / Supervision

Full-time Level 1 supervision and inspection was undertaken including the supervision and inspections regarding the stripping and removal as per AS3798 Section 3 shall have removed:

- Organic soils, such as topsoils, severely root affected subsoils and peat;
- Contaminated soils are part of the brief;
- Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
- Silts, or materials that have deleterious engineering properties of silt;
- Other materials with properties that are unsuitable for the forming of structural fill;
- Fill that contains wood, metal plastic, boulders or other deleterious material, in sufficient proportions to affect the required performance of the fill.
- The maximum particle size of any rocks or other lumps, within the layer, has not exceeded two-thirds ($\frac{2}{3}$) of the compacted layer thickness.

The lots inspected were essentially homogeneous in relation to material type and moisture condition, rolling response and compaction technique and which has been used for the assessment of relative compaction of an area of work (AS3798 Section 1.2.8).

Prior to placement any existing filled ground, for which the conditions of the placement are not adequately documented have not been assumed to have been of either standard compaction or of the composition adequate to support fill or any loads has been removed (AS3798 Section 2).

4 Testing

The project was classified as Residential, thereby requiring a minimum compaction result of 95% density ratio Standard Compaction for the *cohesive soils* (AS 1289 5.7.1 & 5.1.1) throughout the Level 1 Fill and in accordance with AS 3798-2007 – Table 5.2. The test was performed using a Nuclear Density Gauge for field density determination AS 1289.5.8.1.

As a minimum testing was undertaken either 3 tests per lot, 1 test per 2,500m² per layer, or 1 test per 500m³ throughout the placement of fill as per AS3798 Table 8.1.

The material was imported CLAY fill. The material was placed in approximately 200mm loose layers, rolling effort with on-site Compactor (to seal of each layer of placed General Fill material) to a compacted 150mm layer that achieved 95% Standard Compaction which met Australian Standards specifications. This was considered the best method to achieve compaction using the plant and machinery available.

The NATA compaction reports verify the achievement of the minimum density requirement of 95% Standard Compaction throughout the full depth area, with each layer tested accordingly. All test results were provided to our client Wayne Horne Earthmoving for inclusion within their internal quality system.

At the completion of the structural layers and material within 150mm of permanent subgrade level in cuttings, test rolling was undertaken, and the layers withstood test rolling without visible deformation or springing (AS 3798 Section 5.5).

The area covered by this Level 1 Supervision report is shown in the Site Plan (Refer to Appendix A). The results of the laboratory Testing are indicated in Appendix B.

5 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by Wayne Horne Earthmoving satisfied the general requirements of AS 3798 regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to AGT.

The fill meets the requirements for “structural fill for residential applications” in accordance with AS3798. The fill has been placed, compacted and tested in accordance with AS3798 and the fill meets the requirements for controlled fill in accordance with AS2870 (2011) “Residential Slabs and Footings”.

This report has been prepared for the benefit of our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement. No responsibility for this report will be taken by AGT if it is altered in any way, or not reproduced in full.

6 Applicability

The findings and conclusions contained in this Report are made based on site conditions that existed at the time this work was conducted. The conclusions presented in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report.

Findings and conclusions are made assuming that the soil, groundwater, geological and chemical conditions detailed within this report are accurate and remain applicable to the site at the time of writing. The conclusions of this report may become invalid if filling or excavation occurs after the boreholes and test pits referred to in this report were drilled or excavated. No other warranties are made or intended.

AGT has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality.

AGT does not make any representation or warranty that the conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report. This report has been prepared exclusively for use by our client. This report cannot be reproduced without the written authorisation of AGT and then can only be reproduced in its entirety.



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Appendix A – Site Plan

Aberdeen Estate Stage B
October 2024 - June 2025
Level One Supervision
Test Locations

BOREHOLE LOGS			
BOREHOLE	SILT (mm)	CLAY (mm)	ROCK
BH4	300	3700	NO
BH9	300	700	NO
BH10	200	1800	YES
BH15	400	0	YES
BH31	150	3850	NO
BH32	300	1200	YES

BORE LOG NOTES:
1. SILT QUANTITIES INCLUDE TOPSOIL AND CLAYEY SILT.
2. DEPTHS SHOWN ARE DEPTHS OF LAYERS ENCOUNTERED, NOT DEPTHS FROM EXISTING SURFACE.
3. ALL ROCK ENCOUNTERED IN BORE HOLES WAS IDENTIFIED AS BASALT.

FILL LEGEND	
	DEPTH OF FILL
	-3.000+ TO -1.200
	-1.200 TO -0.700
	-0.700 TO -0.600
	-0.600 TO -0.500
	-0.500 TO -0.400
	-0.400 TO -0.300
	-0.300 TO -0.200
	-0.200 TO -0.100
	-0.100 TO -0.050
	0.050 TO 0.100
	0.100 TO 0.200
	0.200 TO 0.300
	0.300 TO 0.400
	0.400 TO 0.500
	0.500 TO 0.600
	0.600 TO 0.700
	0.700 TO 1.200
	1.200 TO 3.000+

- General Notes
- ALL VOLUMES SHOWN ARE FROM SURVEYED SURFACE TO DESIGN SURFACE OR UNDERSIDE OF BOXING. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM THE VOLUMES SHOWN.
 - THIS PLAN DOES NOT INCLUDE ANY EXISTING SITE FILLING THAT MAY EXIST AND/OR ANY FILLING THAT MAY BE INTRODUCED DUE TO GROUND DISTURBANCE DURING CONSTRUCTION.
 - A 330mm DEEP PAVEMENT BOXING ON ALL ACCESS STREETS AND 610mm DEEP PAVEMENT BOXING ON BAROSSA DRIVE HAS BEEN USED AS PER GTS PAVEMENT REPORT 23C 0901-1.

SAFETY FIRST
SAFETY STARTS WITH YOU

4	Issued for Checking	DG	30/05/24
3	Note for pavements used added	TO	03/04/24
2	Issued for Checking	DG	19/03/24
1	Issued for Checking	DG	20/12/23
Rev	Amendment	Initials	Date



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Project
ABERDEEN ESTATE
RESIDENTIAL SUBDIVISION
STAGE B
WINTER VALLEY

Authority
City of Ballarat - (03) 5320 5500

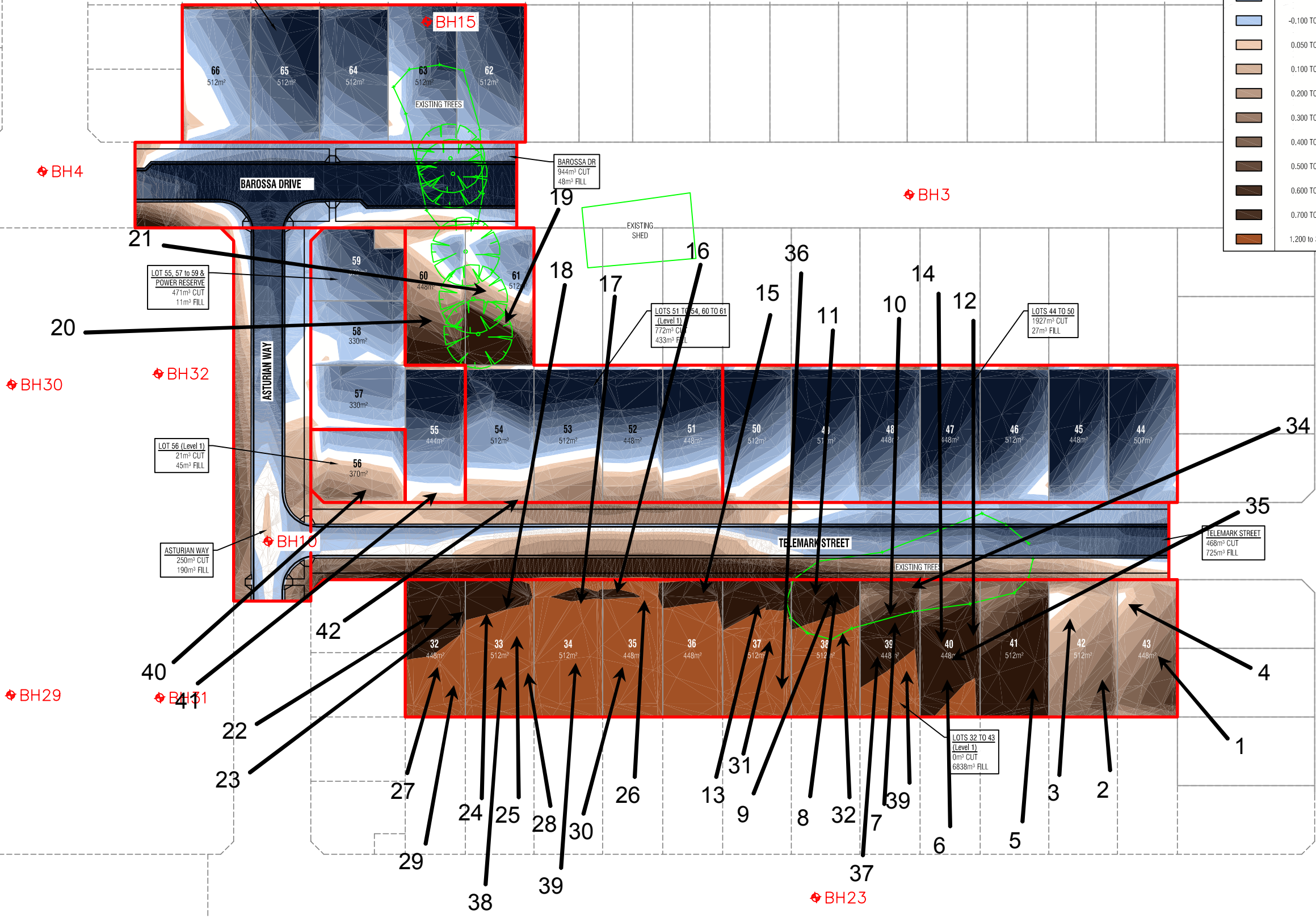
Drawing Title
EARTHWORKS PLAN

Status
PRELIMINARY
NOT FOR CONSTRUCTION

Designer
D.Georgalas
Scale (A1) 1:500
Scale (A3) 1:1000
HOR 0 5 10 15 20 25
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Sheet Number
1 of 1

Drawing Number
GHWB-CD-710
Revision
4



Appendix B – Laboratory Testing

Project Summary Report

Report Date: 30/09/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Contact: Dave Compston
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Specification: 95% Standard
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1



Australian Geotechnical Testing
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Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Compaction Method	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60395-1	30/09/2024	Aberdeen Estate - Stage B Lot 43	-37.590464	143.780049	**	450mm Below FSL	Standard	102.0	2.0	25.4	2.02
**	60395-2	01/10/2024	Aberdeen Estate - Stage B Lot 42	-37.590274	143.780485	**	450mm Below FSL	Standard	101.5	3.0	20.4	1.89
**	60395-3	08/10/2024	Aberdeen Estate - Stage B Lot 42	-37.590190	143.779956	**	150mm Below FSL	Standard	104.0	2.5	24.0	2.02
**	60395-4	08/10/2024	Aberdeen Estate - Stage B Lot 43	-37.590185	143.780140	**	FSL	Standard	105.0	2.5	21.6	2.02
**	60395-5	09/10/2024	Aberdeen Estate - Stage B Lot 41	-37.589813	143.780718	**	750mm Below FSL	Standard	97.0	-3.5	34.9	1.90
**	60395-6	19/11/2024	Aberdeen Estate - Stage B Lot 40	-37.589745	143.780506	**	1.8m Below FSL	Standard	98.0	0.0	23.4	1.94
**	60395-7	19/11/2024	Aberdeen Estate - Stage B Lot 39	-37.589436	143.780202	**	1.5m Below FSL	Standard	98.0	2.0	18.6	1.94
**	60395-8	19/11/2024	Aberdeen Estate - Stage B Lot 38	-37.589135	143.780276	**	1.65m Below FSL	Standard	91.0	3.5	17.9	1.77
**	60395-9	20/11/2024	Aberdeen Estate - Stage B Lot 38 - Retest #8	-37.589185	143.780306	**	1.65m Below FSL	Standard	97.5	0.0	25.7	1.94
**	60395-10	10/04/2025	Aberdeen Estate - Stage B Lot 39	-37.589742	143.780832	**	1200mm Below FSL	Standard	100.5	2.0	16.4	2.08
**	60395-11	10/04/2025	Aberdeen Estate - Stage B Lot 38	-37.589657	143.780776	**	1800mm Below FSL	Standard	95.0	2.0	17.7	1.93
**	60395-12	10/04/2025	Aberdeen Estate - Stage B Lot 40	-37.589776	143.780780	**	900mm Below FSL	Standard	97.5	2.0	22.3	1.99
**	60395-13	16/04/2025	Aberdeen Estate - Stage B Lot 37	-37.589550	143.780715	**	1350mm Below FSL	Standard	95.5	0.0	17.9	1.93
**	60395-14	16/04/2025	Aberdeen Estate - Stage B Lot 40	-37.589836	143.780642	**	1350mm Below FSL	Standard	96.0	0.0	16.6	1.92
**	60395-15	16/04/2025	Aberdeen Estate - Stage B Lot 36	-37.589590	143.780912	**	1500mm Below FSL	Standard	98.5	1.0	17.5	1.94
**	60395-16	02/05/2025	Aberdeen Estate - Stage B Lot 35	-37.589179	143.780844	**	1400 Below FSL	Standard	96.5	0.0	20.0	1.97
**	60395-17	02/05/2025	Aberdeen Estate - Stage B Lot 34	-37.589039	143.780805	**	1400 Below FSL	Standard	97.0	-2.5	20.9	1.99
**	60395-18	02/05/2025	Aberdeen Estate - Stage B Lot 33	-37.588902	143.780767	**	1400 Below FSL	Standard	98.0	-0.5	19.8	1.98
**	60395-19	08/05/2025	Aberdeen Estate - Stage B Lot 61	-37.589074	143.78166	**	150mm below FSL	Standard	102.0	4.5	20.6	1.99
**	60395-20	08/05/2025	Aberdeen Estate - Stage B Lot 60	-37.589403	143.781821	**	300mm below FSL	Standard	98.0	4.5	20.8	1.92
**	60395-21	08/05/2025	Aberdeen Estate - Stage B Lot 61	-37.588899	143.781706	**	FSL	Standard	99.0	4.0	19.9	1.95
**	60395-22	09/05/2025	Aberdeen Estate - Stage B Lot 32	-37.588597	143.780778	**	1.4m Below FSL	Standard	101.0	4.0	20.7	2.00
**	60395-23	09/05/2025	Aberdeen Estate - Stage B Lot 32	-37.588657	143.780712	**	1.2m Below FSL	Standard	100.5	2.0	17.5	2.02
**	60395-24	09/05/2025	Aberdeen Estate - Stage B Lot 33	-37.588984	143.780723	**	1.4m Below FSL	Standard	95.5	4.5	22.4	1.95
**	60395-25	12/05/2025	Aberdeen Estate - Stage B Lot 33	-37.588670	143.780693	**	1200m Below FSL	Standard	98.0	2.5	17.1	2.01
**	60395-26	12/05/2025	Aberdeen Estate - Stage B Lot 35	-37.588663	143.780771	**	1100m Below FSL	Standard	97.0	4.5	26.4	1.95
**	60395-27	12/05/2025	Aberdeen Estate - Stage B Lot 32	-37.589032	143.780952	**	400 Below FSL	Standard	96.0	4.5	16.8	1.92
**	60395-28	15/05/2025	Aberdeen Estate - Stage B Lot 33	-37.588698	143.780853	**	700mm below FSL	Standard	104.5	0.5	19.6	2.03
**	60395-29	15/05/2025	Aberdeen Estate - Stage B Lot 32	-37.588593	143.780735	**	300mm below FSL	Standard	99.0	0.5	22.5	1.92
**	60395-30	15/05/2025	Aberdeen Estate - Stage B Lot 35	-37.588609	143.780901	**	300mm below FSL	Standard	100.5	3.0	14.8	1.93
**	60395-31	20/05/2025	Aberdeen Estate - Stage B Lot 37	-37.589370	143.780775	**	1.0 Below FSL	Standard	98.5	1.5	19.7	1.98
**	60395-32	20/05/2025	Aberdeen Estate - Stage B Lot 38	-37.589436	143.780607	**	500 Below FSL	Standard	97.5	4.0	18.3	1.96
**	60395-33	20/05/2025	Aberdeen Estate - Stage B Lot 39	-37.589579	143.780823	**	900 Below FSL	Standard	97.0	2.0	19.5	1.98
**	60395-34	23/05/2025	Aberdeen Estate - Stage B Lot 39	-37.589260	143.780733	**	1000mm below FSL	Standard	102.5	4.5	19.8	2.00
**	60395-35	23/05/2025	Aberdeen Estate - Stage B Lot 40	-37.589447	143.780569	**	700mm below FSL	Standard	99.0	4.5	26.7	1.92
**	60395-36	23/05/2025	Aberdeen Estate - Stage B Lot 37	-37.589250	143.780773	**	600mm below FSL	Standard	99.0	2.0	25.2	1.96

Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Compaction Method	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60395-37	29/05/2025	Aberdeen Estate - Stage B Lot 39	-37.588934	143.780992	**	600mm Below FSL	Standard	97.5	5.0	22.2	1.72
**	60395-38	29/05/2025	Aberdeen Estate - Stage B Lot 33	-37.58835	143.780708	**	600mm Below FSL	Standard	104.5	3.5	25.2	1.92
**	60395-39	29/05/2025	Aberdeen Estate - Stage B Lot 34	-37.588934	143.780934	**	450mm Below FSL	Standard	98.0	4.5	31.4	1.80
**	60395-40	20/06/2025	Aberdeen Estate - Stage B Lot 56	-37.588492	143.781443	**	150mm Below FSL	Standard	102.0	0.0	22.0	2.06
**	60395-41	20/06/2025	Aberdeen Estate - Stage B Lot 55	-37.588756	143.781425	**	600mm Below FSL	Standard	100.0	0.0	21.5	2.02
**	60395-42	20/06/2025	Aberdeen Estate - Stage B Lot 54	-37.588606	143.781606	**	450mm Below FSL	Standard	101.5	0.0	20.6	2.06

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-1
Issue Number: 1
Date Issued: 03/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2176
Date Sampled: 30/09/2024
Dates Tested: 30/09/2024 - 01/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: Brown CLAY
Material Source: Onsite



Australian Geotechnical Testing
Ballarat Laboratory
2/55 Heinz Road Delacombe VIC 3356
Phone: 1300 026 583
Email: PaulF@ausgeotest.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-1		
Date Tested	30/09/2024		
Time Tested	13:20		
Test Request #/Location	Aberdeen Estate - Stage B Lot 43		
Latitude	-37.590464		
Longitude	143.780049		
Layer / Reduced Level	450mm Below FSL		
Thickness of Layer (mm)	150		
Soil Description	Brown CLAY		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	2.02		
Field Moisture Content %	25.4		
Field Dry Density (FDD) t/m ³	1.61		
Peak Converted Wet Density t/m ³	1.98		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	2.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	102.0		
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: AGT60395-2
Issue Number: 1
Date Issued: 03/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2181
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 01/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: Silty CLAY
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-2		
Date Tested	01/10/2024		
Time Tested	12:15		
Test Request #/Location	Aberdeen Estate - Stage B Lot 42		
Latitude	-37.590274		
Longitude	143.780485		
Layer / Reduced Level	450mm Below FSL		
Thickness of Layer (mm)	150		
Soil Description	Silty CLAY		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	1.89		
Field Moisture Content %	20.4		
Field Dry Density (FDD) t/m ³	1.57		
Peak Converted Wet Density t/m ³	1.86		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	3.0		
Adjusted Moisture Variation %	**		
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: AGT60395-3
Issue Number: 1
Date Issued: 11/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2203
Date Sampled: 08/10/2024
Dates Tested: 08/10/2024 - 09/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: silty CLAY



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Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-3	60395-4	
Date Tested	08/10/2024	08/10/2024	
Time Tested	13:20	13:30	
Test Request #/Location	Aberdeen Estate - Stage B Lot 42	Aberdeen Estate - Stage B Lot 43	
Latitude	-37.590190	-37.590185	
Longitude	143.779956	143.780140	
Layer / Reduced Level	150mm Below FSL	FSL	
Thickness of Layer (mm)	150	150	
Soil Description	silty CLAY	silty CLAY	
Test Depth (mm)	125	125	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	**	**	
Field Wet Density (FWD) t/m ³	2.02	2.02	
Field Moisture Content %	24.0	21.6	
Field Dry Density (FDD) t/m ³	1.63	1.66	
Peak Converted Wet Density t/m ³	1.94	1.93	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	2.5	2.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	104.0	105.0	
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: AGT60395-4
Issue Number: 1
Date Issued: 11/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2205
Date Sampled: 09/10/2024
Dates Tested: 09/10/2024 - 10/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: silty CLAY
Material Source: Onsite



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Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-5		
Date Tested	09/10/2024		
Time Tested	13:00		
Test Request #/Location	Aberdeen Estate - Stage B Lot 41		
Latitude	-37.589813		
Longitude	143.780718		
Layer / Reduced Level	750mm Below FSL		
Thickness of Layer (mm)	150		
Soil Description	Silty Clay		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	1.90		
Field Moisture Content %	34.9		
Field Dry Density (FDD) t/m ³	1.41		
Peak Converted Wet Density t/m ³	1.96		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	-3.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	97.0		
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: AGT60395-5
Issue Number: 1
Date Issued: 21/11/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2243
Date Sampled: 19/11/2024
Dates Tested: 19/11/2024 - 20/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: Sandy CLAY
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-6	60395-7	60395-8
Date Tested	19/11/2024	19/11/2024	19/11/2024
Time Tested	03:20	03:30	03:45
Test Request #/Location	Aberdeen Estate - Stage B Lot 40	Aberdeen Estate - Stage B Lot 39	Aberdeen Estate - Stage B Lot 38
Latitude	-37.589745	-37.589436	-37.589135
Longitude	143.780506	143.780202	143.780276
Layer / Reduced Level	1.8m Below FSL	1.5m Below FSL	1.65m Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.94	1.94	1.77
Field Moisture Content %	23.4	18.6	17.9
Field Dry Density (FDD) t/m ³	1.58	1.63	1.50
Peak Converted Wet Density t/m ³	1.99	1.97	1.94
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	2.0	3.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.0	98.0	91.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-6
Issue Number: 1
Date Issued: 21/11/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2244
Date Sampled: 20/11/2024
Dates Tested: 20/11/2024 - 20/11/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-9		
Date Tested	20/11/2024		
Time Tested	13:00		
Test Request #/Location	Aberdeen Estate - Stage B Lot 38 - Retest #8		
Latitude	-37.589185		
Longitude	143.780306		
Layer / Reduced Level	1.65m Below FSL		
Thickness of Layer (mm)	150		
Soil Description	Sandy CLAY		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	1.94		
Field Moisture Content %	25.7		
Field Dry Density (FDD) t/m ³	1.54		
Peak Converted Wet Density t/m ³	1.99		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	97.5		
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: AGT60395-7
Issue Number: 1
Date Issued: 14/04/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2478
Date Sampled: 10/04/2025
Dates Tested: 10/04/2025 - 14/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: Silty Clay
Material Source: Onsite



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Approved Signatory: Riley Taylor
Senior Geotechnician
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-10	60395-11	60395-12
Date Tested	10/04/2025	10/04/2025	10/04/2025
Time Tested	09:55	10:00	13:00
Test Request #/Location	Aberdeen Estate - Stage B Lot 39	Aberdeen Estate - Stage B Lot 38	Aberdeen Estate - Stage B Lot 40
Latitude	-37.589742	-37.589657	-37.589776
Longitude	143.780832	143.780776	143.780780
Layer / Reduced Level	1200mm Below FSL	1800mm Below FSL	900mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.08	1.93	1.99
Field Moisture Content %	16.4	17.7	22.3
Field Dry Density (FDD) t/m ³	1.79	1.64	1.63
Peak Converted Wet Density t/m ³	2.07	2.03	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	95.0	97.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-8
Issue Number: 1
Date Issued: 22/04/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2500
Date Sampled: 16/04/2025
Dates Tested: 16/04/2025 - 16/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate- Stage B
Material: silty CLAY
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-13	60395-14	60395-15
Date Tested	16/04/2025	16/04/2025	16/04/2025
Time Tested	10:30	10:35	12:50
Test Request #/Location	Aberdeen Estate - Stage B Lot 37	Aberdeen Estate - Stage B Lot 40	Aberdeen Estate - Stage B Lot 36
Latitude	-37.589550	-37.589836	-37.589590
Longitude	143.780715	143.780642	143.780912
Layer / Reduced Level	1350mm Below FSL	1350mm Below FSL	1500mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.93	1.92	1.94
Field Moisture Content %	17.9	16.6	17.5
Field Dry Density (FDD) t/m ³	1.63	1.64	1.66
Peak Converted Wet Density t/m ³	2.02	2.00	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.5	96.0	98.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-9
Issue Number: 1
Date Issued: 07/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2522
Date Sampled: 02/05/2025
Dates Tested: 02/05/2025 - 05/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: (CH) silty CLAY- Brown
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-16	60395-17	60395-18
Date Tested	02/05/2025	02/05/2025	02/05/2025
Time Tested	14:35	14:40	14:45
Test Request #/Location	Aberdeen Estate - Stage B Lot 35	Aberdeen Estate - Stage B Lot 34	Aberdeen Estate - Stage B Lot 33
Latitude	-37.589179	-37.589039	-37.588902
Longitude	143.780844	143.780805	143.780767
Layer / Reduced Level	1400 Below FSL	1400 Below FSL	1400 Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.97	1.99	1.98
Field Moisture Content %	20.0	20.9	19.8
Field Dry Density (FDD) t/m ³	1.64	1.64	1.65
Peak Converted Wet Density t/m ³	2.04	2.05	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	-2.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	97.0	98.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-10
Issue Number: 1
Date Issued: 14/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2535
Date Sampled: 08/05/2025
Dates Tested: 08/05/2025 - 13/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Location: Aberdeen Estate - Stage B



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-19	60395-20	60395-21
Date Tested	08/05/2025	08/05/2025	08/05/2025
Time Tested	10:25	13:00	15:25
Test Request #/Location	Aberdeen Estate - Stage B Lot 61	Aberdeen Estate - Stage B Lot 60	Aberdeen Estate - Stage B Lot 61
Latitude	-37.589074	-37.589403	-37.588899
Longitude	143.78166	143.781821	143.781706
Layer / Reduced Level	150mm below FSL	300mm below FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.99	1.92	1.95
Field Moisture Content %	20.6	20.8	19.9
Field Dry Density (FDD) t/m ³	1.65	1.59	1.63
Peak Converted Wet Density t/m ³	1.96	1.96	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.5	4.5	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	98.0	99.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Density Decay Correction Factor as per Section 307.131

Material Test Report

Report Number: AGT60395-11
Issue Number: 1
Date Issued: 14/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2543
Date Sampled: 09/05/2025
Dates Tested: 09/05/2025 - 13/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: (CH) silty CLAY- Brown
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-22	60395-23	60395-24
Date Tested	09/05/2025	09/05/2025	09/05/2025
Time Tested	08:30	11:30	13:00
Test Request #/Location	Aberdeen Estate - Stage B Lot 32	Aberdeen Estate - Stage B Lot 32	Aberdeen Estate - Stage B Lot 33
Latitude	-37.588597	-37.588657	-37.588984
Longitude	143.780778	143.780712	143.780723
Layer / Reduced Level	1.4m Below FSL	1.2m Below FSL	1.4m Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.00	2.02	1.95
Field Moisture Content %	20.7	17.5	22.4
Field Dry Density (FDD) t/m ³	1.66	1.72	1.59
Peak Converted Wet Density t/m ³	1.98	2.00	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.0	2.0	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	100.5	95.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-12
Issue Number: 1
Date Issued: 16/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2547
Date Sampled: 12/05/2025
Dates Tested: 12/05/2025 - 15/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: (CH) silty CLAY- Brown
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-25	60395-26	60395-27
Date Tested	12/05/2025	12/05/2025	12/05/2025
Time Tested	11:10	14:00	14:05
Test Request #/Location	Aberdeen Estate - Stage B Lot 33	Aberdeen Estate - Stage B Lot 35	Aberdeen Estate - Stage B Lot 32
Latitude	-37.588670	-37.588663	-37.589032
Longitude	143.780693	143.780771	143.780952
Layer / Reduced Level	1200m Below FSL	1100m Below FSL	400 Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.01	1.95	1.92
Field Moisture Content %	17.1	26.4	16.8
Field Dry Density (FDD) t/m ³	1.71	1.54	1.64
Peak Converted Wet Density t/m ³	2.04	2.01	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.5	4.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.0	97.0	96.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-13
Issue Number: 1
Date Issued: 19/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2559
Date Sampled: 15/05/2025
Dates Tested: 15/05/2025 - 19/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: (CH) CLAY- Brown
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-28	60395-29	60395-30
Date Tested	15/05/2025	15/05/2025	15/05/2025
Time Tested	08:30	12:00	12:40
Test Request #/Location	Aberdeen Estate - Stage B Lot 33	Aberdeen Estate - Stage B Lot 32	Aberdeen Estate - Stage B Lot 35
Latitude	-37.588698	-37.588593	-37.588609
Longitude	143.780853	143.780735	143.780901
Layer / Reduced Level	700mm below FSL	300mm below FSL	300mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) CLAY- Brown	(CH) CLAY- Brown	(CH) CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.03	1.92	1.93
Field Moisture Content %	19.6	22.5	14.8
Field Dry Density (FDD) t/m ³	1.70	1.57	1.68
Peak Converted Wet Density t/m ³	1.94	1.95	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.5	0.5	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	104.5	99.0	100.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-14
Issue Number: 1
Date Issued: 21/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2570
Date Sampled: 20/05/2025
Dates Tested: 20/05/2025 - 21/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: CLAY with Sand
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-31	60395-32	60395-33
Date Tested	20/05/2025	20/05/2025	20/05/2025
Time Tested	09:10	13:00	15:00
Test Request #/Location	Aberdeen Estate - Stage B Lot 37	Aberdeen Estate - Stage B Lot 38	Aberdeen Estate - Stage B Lot 39
Latitude	-37.589370	-37.589436	-37.589579
Longitude	143.780775	143.780607	143.780823
Layer / Reduced Level	1.0 Below FSL	500 Below FSL	900 Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	CLAY with Sand	CLAY with Sand	CLAY with Sand
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.98	1.96	1.98
Field Moisture Content %	19.7	18.3	19.5
Field Dry Density (FDD) t/m ³	1.65	1.66	1.66
Peak Converted Wet Density t/m ³	2.01	2.02	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	4.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	97.5	97.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-15
Issue Number: 1
Date Issued: 28/05/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2577
Date Sampled: 23/05/2025
Dates Tested: 23/05/2025 - 28/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: Sandy CLAY
Material Source: Onsite



Australian Geotechnical Testing
Ballarat Laboratory
3/43 Paddy's Drive Delacombe VIC 3356
Phone: 1300 026 583
Email: PaulF@ausgeotest.com.au

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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-34	60395-35	60395-36
Date Tested	23/05/2025	23/05/2025	23/05/2025
Time Tested	13:00	13:05	15:45
Test Request #/Location	Aberdeen Estate - Stage B Lot 39	Aberdeen Estate - Stage B Lot 40	Aberdeen Estate - Stage B Lot 37
Latitude	-37.589260	-37.589447	-37.589250
Longitude	143.780733	143.780569	143.780773
Layer / Reduced Level	1000mm below FSL	700mm below FSL	600mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.00	1.92	1.96
Field Moisture Content %	19.8	26.7	25.2
Field Dry Density (FDD) t/m ³	1.67	1.52	1.57
Peak Converted Wet Density t/m ³	1.96	1.94	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.5	4.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	99.0	99.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-16
Issue Number: 1
Date Issued: 02/06/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2588
Date Sampled: 29/05/2025
Dates Tested: 29/05/2025 - 30/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate
Material: Sandy CLAY
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60395-37	60395-38	60395-39
Date Tested	29/05/2025	29/05/2025	29/05/2025
Time Tested	13:00	13:30	15:30
Test Request #/Location	Aberdeen Estate - Stage B Lot 39	Aberdeen Estate - Stage B Lot 33	Aberdeen Estate - Stage B Lot 34
Latitude	-37.588934	-37.58835	-37.588934
Longitude	143.780992	143.780708	143.780934
Layer / Reduced Level	600mm Below FSL	600mm Below FSL	450mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Sandy CLAY	Sandy CLAY	Sandy CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	1.72	1.92	1.80
Field Moisture Content %	22.2	25.2	31.4
Field Dry Density (FDD) t/m ³	1.41	1.53	1.37
Peak Converted Wet Density t/m ³	1.76	1.83	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	5.0	3.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	104.5	98.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60395-17
Issue Number: 1
Date Issued: 27/06/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60395
Project Name: Aberdeen Estate - Stage B
Project Location: Aberdeen Estate
Work Request: 2610
Date Sampled: 20/06/2025
Dates Tested: 23/06/2025 - 26/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Aberdeen Estate - Stage B
Material: silty CLAY
Material Source: Onsite



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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60395-40	60395-41	60395-42
Date Tested	20/06/2025	20/06/2025	20/06/2025
Time Tested	12:00	12:05	12:10
Test Request #/Location	Aberdeen Estate - Stage B Lot 56	Aberdeen Estate - Stage B Lot 55	Aberdeen Estate - Stage B Lot 54
Latitude	-37.588492	-37.588756	-37.588606
Longitude	143.781443	143.781425	143.781606
Layer / Reduced Level	150mm Below FSL	600mm Below FSL	450mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m ³	2.06	2.02	2.06
Field Moisture Content %	22.0	21.5	20.6
Field Dry Density (FDD) t/m ³	1.69	1.66	1.71
Peak Converted Wet Density t/m ³	2.02	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	100.0	101.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Appendix C – Site Photos

