



Australian Geotechnical Testing

Level One Inspection and Testing

Project No: AGTE250670

Project: Aberdeen Estate Stage A

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 A, 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 25th March 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 175mm 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.

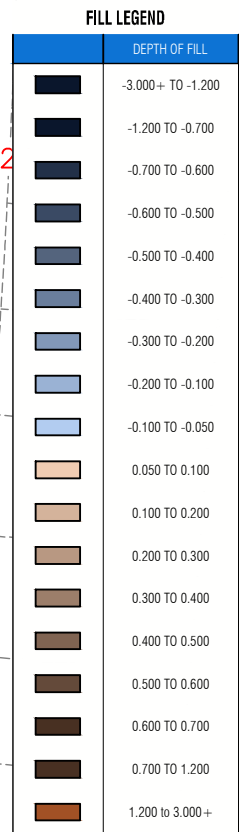
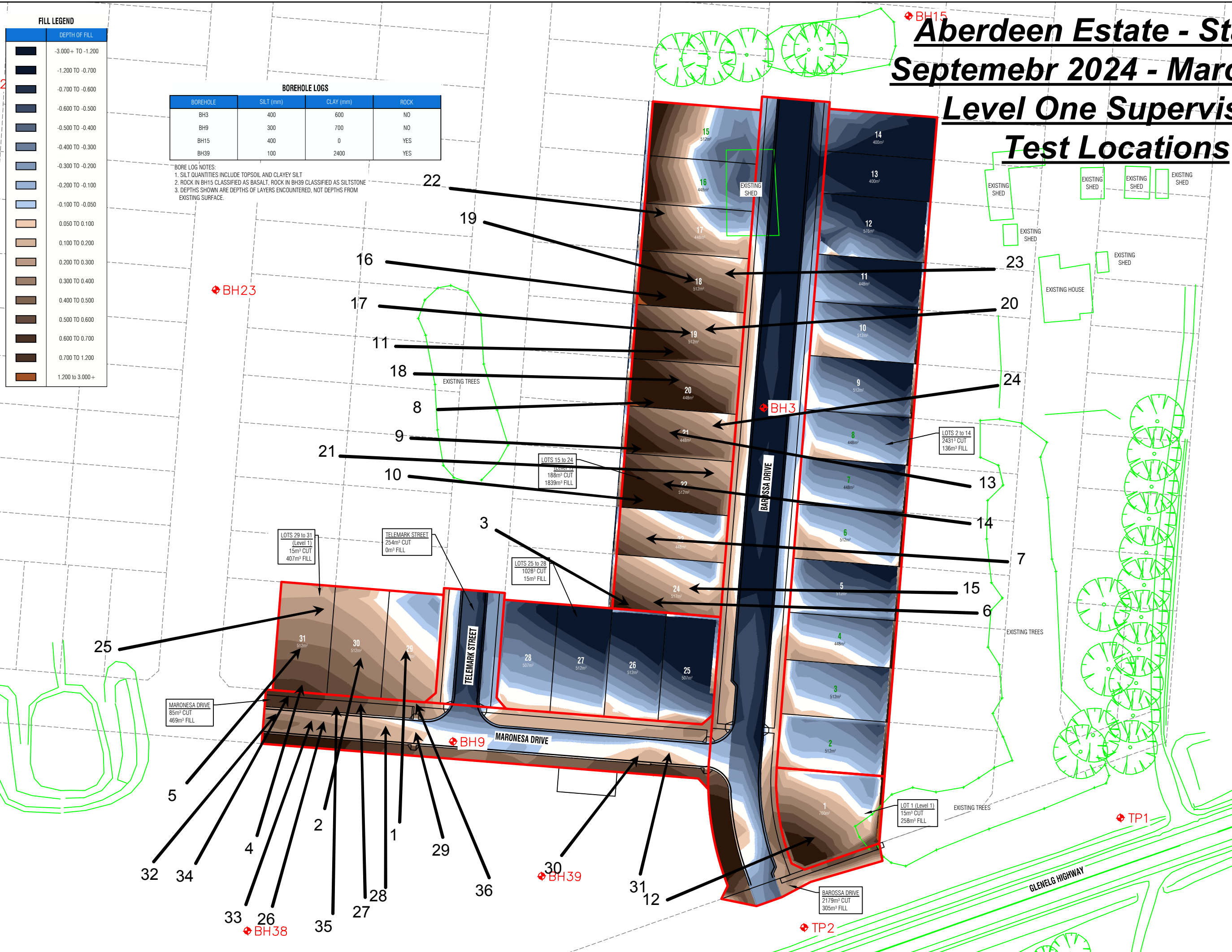


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Appendix A – Site Plan



BOREHOLE LOGS

BOREHOLE	SILT (mm)	CLAY (mm)	ROCK
BH3	400	600	NO
BH9	300	700	NO
BH15	400	0	YES
BH39	100	2400	YES

BORE LOG NOTES:
1. SILT QUANTITIES INCLUDE TOPSOIL AND CLAYEY SILT
2. ROCK IN BH15 CLASSIFIED AS BASALT, ROCK IN BH39 CLASSIFIED AS SILTSTONE
3. DEPTHS SHOWN ARE DEPTHS OF LAYERS ENCOUNTERED, NOT DEPTHS FROM EXISTING SURFACE.

Aberdeen Estate - Stage A

Septemebr 2024 - March 2025

Level One Supervision

Test Locations

General Notes
1. ALL VOLUMES SHOWN ARE FROM SURVEYED DATA AND ARE NOT TO BE USED FOR DESIGN SURFACE OR UNDERSIDE OF ROAD OR OTHER STRUCTURES.
2. THIS PLAN DOES NOT INCLUDE ANY EXISTING UTILITIES OR SERVICES. ANY EXISTING UTILITIES OR SERVICES ARE TO BE DELETED OR RELOCATED TO AVOID THE EXISTING UTILITIES OR SERVICES.
3. 630mm DEEP PAVEMENT BOXING ON ALL LOTS. 630mm DEEP PAVEMENT BOXING ON BAROSSA DRIVE HAS BEEN OBTAINED FROM GTS PAVEMENT REPORT 23C 0901-1.

SAFETY FIRST
SAFETY STARTS WITH YOU

Rev	Amendment	Initials	Date
6	Note 3 altered	TO	03/04/24
5	Issued for Contract	DG	18/03/24
4	Issued for Checking	DG	06/03/24
3	Issued for Checking	DG	20/12/23
2	Issued for Contract	DG	06/09/23
1	Issued for Checking	DG	20/07/23

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Project
**ABERDEEN ESTATE
RESIDENTIAL SUBDIVISION
STAGE A
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
VER

Sheet Number
1 of 1

Drawing Number
GHWA-CD-710
Revision
5

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: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Specification: 95% Standard
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1



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

Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Compaction Method	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60396-1	30/09/2024	Aberdeen Estate - Stage A Lot 29	-37.590447	143.780504	**	150mm Below FSL	Standard	103.0	2.5	25.0	2.00
**	60396-2	30/09/2024	Aberdeen Estate - Stage A Lot 30	-37.590359	143.750061	**	300mm Below FSL	Standard	102.0	3.0	27.4	1.96
**	60396-3	01/10/2024	Aberdeen Estate - Stage A Lot 24	-37.590360	143.780636	**	1050mm Below FSL	Standard	102.0	2.0	22.3	2.03
**	60396-4	01/10/2024	Aberdeen Estate - Stage A Lot 31	-37.590472	143.779696	**	1050mm Below FSL	Standard	101.5	0.5	24.1	2.03
**	60396-5	04/10/2024	Aberdeen Estate - Stage A Lot 31	-37.590228	143.780632	**	750mm Below FSL	Standard	98.5	2.0	19.5	1.93
**	60396-6	28/10/2024	Aberdeen Estate - Stage A Lot 24	-37.590736	143.781493	**	450mm Below FSL	Standard	101.0	2.5	19.0	2.07
**	60396-7	28/10/2024	Aberdeen Estate - Stage A Lot 23	-37.590431	143.781517	**	300mm Below FSL	Standard	98.5	2.0	22.4	1.94
**	60396-8	18/11/2024	Aberdeen Estate - Stage A Lot 20	-37.589345	143.780634	**	750mm Below FSL	Standard	100.0	0.0	29.0	1.95
**	60396-9	18/11/2024	Aberdeen Estate - Stage A Lot 21	-37.589586	143.780593	**	900mm Below FSL	Standard	98.5	-2.0	27.8	1.96
**	60396-10	18/11/2024	Aberdeen Estate - Stage A Lot 22	37.589782	143.780549	**	1000mm Below FSL	Standard	98.0	0.0	26.1	1.91
**	60396-11	18/11/2024	Aberdeen Estate - Stage A Lot 19	-37.598211	143.70453	**	1000mm Below FSL	Standard	100.5	0.0	25.5	1.93
**	60396-12	25/11/2024	Aberdeen Estate - Stage A Lot 1	-37.590921	143.782023	**	750mm Below FSL	Standard	103.0	-0.5	28.2	1.95
**	60396-13	10/12/2024	Aberdeen Estate - Stage A Lot 21	-37.589951	143.781754	**	450mm Below FSL	Standard	99.0	0.5	26.9	1.95
**	60396-14	10/12/2024	Aberdeen Estate - Stage A Lot 22	-37.591364	143.780900	**	600mm Below FSL	Standard	96.0	0.5	24.8	1.94
**	60396-15	10/12/2024	Aberdeen Estate - Stage A Lot 24	-37.590449	143.781443	**	FSL	Standard	97.5	0.5	22.9	1.95
**	60396-16	10/12/2024	Aberdeen Estate - Stage A Lot 18	-37.589590	143.781753	**	900mm Below FSL	Standard	100.5	0.5	20.9	2.04
**	60396-17	10/12/2024	Aberdeen Estate - Stage A Lot 19	-37.590332	143.781823	**	600mm Below FSL	Standard	97.0	1.0	20.2	1.93
**	60396-18	10/12/2024	Aberdeen Estate - Stage A Lot 20	-37.590176	143.781793	**	300mm Below FSL	Standard	98.0	1.0	22.9	1.93
**	60396-19	11/12/2024	Aberdeen Estate - Stage A Lot 18	-37.589581	143.781770	**	450mm Below FSL	Standard	99.5	2.5	20.7	1.95
**	60396-20	11/12/2024	Aberdeen Estate - Stage A Lot 19	-37.589704	143.781796	**	150mm Below FSL	Standard	98.0	0.5	17.8	1.95
**	60396-21	11/12/2024	Aberdeen Estate - Stage A Lot 22	-37.591368	143.780911	**	150mm Below FSL	Standard	101.0	2.5	19.6	2.01
**	60396-22	16/12/2024	Aberdeen Estate - Stage A Lot 17	-37.589531	143.781792	**	750mm Below FSL	Standard	100.0	0.0	29.4	2.07
**	60396-23	16/12/2024	Aberdeen Estate - Stage A Lot 18	-37.589690	143.781676	**	FSL	Standard	96.0	0.5	25.6	1.95
**	60396-24	16/12/2024	Aberdeen Estate - Stage A Lot 21	-37.589954	143.781761	**	FSL	Standard	100.5	0.5	31.4	2.07
**	60396-25	16/12/2024	Aberdeen Estate - Stage A Lot 31	-37.590479	143.779688	**	150mm Below FSL	Standard	96.0	0.5	23.8	1.94
**	60396-26	14/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.590058	143.782360	**	400 Below FSL	Standard	103.0	5.0	19.2	1.91
**	60396-27	17/03/2025	Aberdeen Estate - Stage A Retaining Easement - North side	-37.590184	143.782363	**	150mm Below FSL	Standard	104.0	4.5	19.6	1.94
**	60396-28	17/03/2025	Aberdeen Estate - Stage A Retaining Easement - South side	-37.590701	143.782221	**	150mm Below FSL	Standard	98.0	2.0	17.9	1.99
**	60396-29	17/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.590792	143.782206	**	150mm Below FSL	Standard	99.5	2.0	19.1	1.96
**	60396-30	20/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.590840	143.782284	**	FSL	Standard	99.0	2.0	-5.0	1.96
**	60396-31	20/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.590160	143.782329	**	FSL	Standard	103.0	4.5	17.3	2.03

Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Compaction Method	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60396-32	20/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.589829	143.782427	**	1.0m below FSL	Standard	105.0	4.0	19.7	2.09
**	60396-33	20/03/2025	Aberdeen Estate - Stage A Retaining Easement	-37.589749	143.782281	**	800mm below FSL	Standard	101.0	2.0	21.6	2.09
**	60396-34	25/03/2025	Aberdeen Estate - Stage A Retaining Easement - Northern Edge	-37.588466	143.782638	**	600 Below FSL	Standard	102.0	2.5	20.8	2.08
**	60396-35	25/03/2025	Aberdeen Estate - Stage A Retaining Easement - Northern Edge	-37.588466	143.782638	**	FSL	Standard	101.5	2.0	20.6	2.12
**	60396-36	25/03/2025	Aberdeen Estate - Stage A Retaining Easement - Northern Edge	-37.588340	143.782587	**	FSL	Standard	101.5	4.5	20.6	2.10

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT60396-1
Issue Number: 1
Date Issued: 03/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2177
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 A
Material: Brown CLAY
Material Source: Onsite



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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	60396-1	60396-2	
Date Tested	30/09/2024	30/09/2024	
Time Tested	16:20	16:30	
Test Request #/Location	Aberdeen Estate - Stage A Lot 29	Aberdeen Estate - Stage A Lot 30	
Latitude	-37.590447	-37.590359	
Longitude	143.780504	143.750061	
Layer / Reduced Level	150mm Below FSL	300mm Below FSL	
Thickness of Layer (mm)	150	150	
Soil Description	Brown CLAY	Brown 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	2.00	1.96	
Field Moisture Content %	25.0	27.4	
Field Dry Density (FDD) t/m ³	1.60	1.54	
Peak Converted Wet Density t/m ³	1.94	1.92	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	2.5	3.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	103.0	102.0	
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: AGT60396-2
Issue Number: 1
Date Issued: 03/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2180
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 A
Material: Brown 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	60396-3		
Date Tested	01/10/2024		
Time Tested	12:10		
Test Request #/Location	Aberdeen Estate - Stage A Lot 24		
Latitude	-37.590360		
Longitude	143.780636		
Layer / Reduced Level	1050mm 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	2.03		
Field Moisture Content %	22.3		
Field Dry Density (FDD) t/m ³	1.66		
Peak Converted Wet Density t/m ³	2.00		
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: AGT60396-3
Issue Number: 1
Date Issued: 04/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2186
Date Sampled: 01/10/2024
Dates Tested: 01/10/2024 - 02/10/2024
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 A
Material: Brown CLAY
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60396-4		
Date Tested	01/10/2024		
Time Tested	15:00		
Test Request #/Location	Aberdeen Estate - Stage A Lot 31		
Latitude	-37.590472		
Longitude	143.779696		
Layer / Reduced Level	1050mm 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	2.03		
Field Moisture Content %	24.1		
Field Dry Density (FDD) t/m ³	1.63		
Peak Converted Wet Density t/m ³	1.99		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	0.5		
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: AGT60396-4
Issue Number: 1
Date Issued: 11/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2199
Date Sampled: 04/10/2024
Dates Tested: 04/10/2024 - 04/10/2024
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 A
Material: (CH) silty CLAY- Brown/Yellow
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	60396-5		
Date Tested	04/10/2024		
Time Tested	12:30		
Test Request #/Location	Aberdeen Estate -Stage A Lot 31		
Latitude	-37.590228		
Longitude	143.780632		
Layer / Reduced Level	750mm Below FSL		
Thickness of Layer (mm)	150		
Soil Description	(CH) silty CLAY- Brown/Yellow		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	1.93		
Field Moisture Content %	19.5		
Field Dry Density (FDD) t/m ³	1.62		
Peak Converted Wet Density t/m ³	1.96		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	2.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	98.5		
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: AGT60396-5
Issue Number: 1
Date Issued: 30/10/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2224
Date Sampled: 28/10/2024
Dates Tested: 28/10/2024 - 29/10/2024
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 A
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	60396-6	60396-7	
Date Tested	28/10/2024	28/10/2024	
Time Tested	11:05	11:15	
Test Request #/Location	Aberdeen Estate -Stage A Lot 24	Aberdeen Estate -Stage A Lot 23	
Latitude	-37.590736	-37.590431	
Longitude	143.781493	143.781517	
Layer / Reduced Level	450mm Below FSL	300mm Below 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	2.07	1.94	
Field Moisture Content %	19.0	22.4	
Field Dry Density (FDD) t/m ³	1.74	1.59	
Peak Converted Wet Density t/m ³	2.06	1.97	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	2.5	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	101.0	98.5	
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: AGT60396-6
Issue Number: 1
Date Issued: 20/11/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2241
Date Sampled: 18/11/2024
Dates Tested: 13/11/2024 - 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 A
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	60396-8	60396-9	60396-10	60396-11
Date Tested	18/11/2024	18/11/2024	18/11/2024	18/11/2024
Time Tested	15:15	16:15	16:20	16:25
Test Request #/Location	Aberdeen Estate - Stage A Lot 20	Aberdeen Estate - Stage A Lot 21	Aberdeen Estate - Stage A Lot 22	Aberdeen Estate - Stage A Lot 19
Latitude	-37.589345	-37.589586	37.589782	-37.598211
Longitude	143.780634	143.780593	143.780549	143.70453
Layer / Reduced Level	750mm Below FSL	900mm Below FSL	1000mm Below FSL	1000mm Below FSL
Thickness of Layer (mm)	150	150	150	150
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.95	1.96	1.91	1.93
Field Moisture Content %	29.0	27.8	26.1	25.5
Field Dry Density (FDD) t/m ³	1.51	1.53	1.51	1.53
Peak Converted Wet Density t/m ³	1.94	1.99	1.94	1.91
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	-2.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.0	98.5	98.0	100.5
Compaction Method	Standard	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: AGT60396-7
Issue Number: 1
Date Issued: 26/11/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2246
Date Sampled: 25/11/2024
Dates Tested: 25/11/2024 - 25/11/2024
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 A
Material: Silty CLAY
Material Source: Onsite



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NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60396-12		
Date Tested	25/11/2024		
Time Tested	09:20		
Test Request #/Location	Aberdeen Estate - Stage A Lot 1		
Latitude	-37.590921		
Longitude	143.782023		
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	1.95		
Field Moisture Content %	28.2		
Field Dry Density (FDD) t/m ³	1.52		
Peak Converted Wet Density t/m ³	1.90		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	-0.5		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	103.0		
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: AGT60396-8
Issue Number: 1
Date Issued: 11/12/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2255
Date Sampled: 10/12/2024
Dates Tested: 10/12/2024 - 10/12/2024
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 A
Material: silty CLAY
Material Source: Onsite



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Riley Taylor

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	60396-13	60396-14	60396-15	60396-16	60396-17	60396-18
Date Tested	10/12/2024	10/12/2024	10/12/2024	10/12/2024	10/12/2024	10/12/2024
Time Tested	09:00	09:05	09:10	12:45	15:50	15:55
Test Request #/Location	Aberdeen Estate - Stage A Lot 21	Aberdeen Estate - Stage A Lot 22	Aberdeen Estate - Stage A Lot 24	Aberdeen Estate - Stage A Lot 18	Aberdeen Estate - Stage A Lot 19	Aberdeen Estate - Stage A Lot 20
Latitude	-37.589951	-37.591364	-37.590449	-37.589590	-37.590332	-37.590176
Longitude	143.781754	143.780900	143.781443	143.781753	143.781823	143.781793
Layer / Reduced Level	450mm Below FSL	600mm Below FSL	FSL	900mm Below FSL	600mm Below FSL	300mm Below FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	125	125	125	125	125	125
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	1.95	1.94	1.95	2.04	1.93	1.93
Field Moisture Content %	26.9	24.8	22.9	20.9	20.2	22.9
Field Dry Density (FDD) t/m ³	1.53	1.55	1.58	1.69	1.60	1.57
Peak Converted Wet Density t/m ³	1.96	2.01	2.00	2.04	1.99	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.5	1.0	1.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.0	96.0	97.5	100.5	97.0	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

Material Test Report

Report Number: AGT60396-9
Issue Number: 1
Date Issued: 16/12/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2260
Date Sampled: 11/12/2024
Dates Tested: 11/12/2024 - 12/12/2024
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 A
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	60396-19	60396-20	60396-21
Date Tested	11/12/2024	11/12/2024	11/12/2024
Time Tested	14:20	14:25	16:30
Test Request #/Location	Aberdeen Estate - Stage A Lot 18	Aberdeen Estate - Stage A Lot 19	Aberdeen Estate - Stage A Lot 22
Latitude	-37.589581	-37.589704	-37.591368
Longitude	143.781770	143.781796	143.780911
Layer / Reduced Level	450mm Below FSL	150mm Below FSL	150mm 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	1.95	1.95	2.01
Field Moisture Content %	20.7	17.8	19.6
Field Dry Density (FDD) t/m ³	1.61	1.66	1.68
Peak Converted Wet Density t/m ³	1.96	1.99	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.5	0.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	98.0	101.0
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: AGT60396-10
Issue Number: 1
Date Issued: 17/12/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2262
Date Sampled: 16/12/2024
Dates Tested: 16/12/2024 - 17/12/2024
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 A
Material: silty CLAY
Material Source: Onsite



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Riley Taylor

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	60396-22	60396-23	60396-24	60396-25
Date Tested	16/12/2024	16/12/2024	16/12/2024	16/12/2024
Time Tested	13:05	13:10	13:15	13:20
Test Request #/Location	Aberdeen Estate - Stage A Lot 17	Aberdeen Estate - Stage A Lot 18	Aberdeen Estate - Stage A Lot 21	Aberdeen Estate - Stage A Lot 31
Latitude	-37.589531	-37.589690	-37.589954	-37.590479
Longitude	143.781792	143.781676	143.781761	143.779688
Layer / Reduced Level	750mm Below FSL	FSL	FSL	150mm Below FSL
Thickness of Layer (mm)	150	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.07	1.95	2.07	1.94
Field Moisture Content %	29.4	25.6	31.4	23.8
Field Dry Density (FDD) t/m ³	1.60	1.55	1.58	1.57
Peak Converted Wet Density t/m ³	2.07	2.03	2.06	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.0	96.0	100.5	96.0
Compaction Method	Standard	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: AGT60396-11
Issue Number: 1
Date Issued: 19/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2403
Date Sampled: 14/03/2025
Dates Tested: 14/03/2025 - 17/03/2025
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 A
Material: (CH) CLAY- Brown
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	60396-26		
Date Tested	14/03/2025		
Time Tested	14:30		
Test Request #/Location	Aberdeen Estate - Stage A Retaining Easement		
Latitude	-37.590058		
Longitude	143.782360		
Layer / Reduced Level	400 Below FSL		
Thickness of Layer (mm)	150		
Soil Description	(CH) CLAY- Brown		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m ³	1.91		
Field Moisture Content %	19.2		
Field Dry Density (FDD) t/m ³	1.60		
Peak Converted Wet Density t/m ³	1.86		
Adjusted Peak Converted Wet Density t/m ³	**		
Moisture Variation (Wv) %	5.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	103.0		
Compaction Method	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: AGT60396-12
Issue Number: 1
Date Issued: 31/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2405
Date Sampled: 17/03/2025
Dates Tested: 17/03/2025 - 24/03/2025
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 A
Material: (CH) brown CLAY
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	60396-27	60396-28	60396-29
Date Tested	17/03/2025	17/03/2025	17/03/2025
Time Tested	09:10	09:15	15:30
Test Request #/Location	Aberdeen Estate - Stage A Retaining Easement - North side	Aberdeen Estate - Stage A Retaining Easement - South side	Aberdeen Estate - Stage A Retaining Easement
Latitude	-37.590184	-37.590701	-37.590792
Longitude	143.782363	143.782221	143.782206
Layer / Reduced Level	150mm Below FSL	150mm Below FSL	150mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) Brown CLAY	(CH) Brown CLAY	(CH) Brown 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	1.99	1.96
Field Moisture Content %	19.6	17.9	19.1
Field Dry Density (FDD) t/m ³	1.62	1.69	1.65
Peak Converted Wet Density t/m ³	1.87	2.04	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	4.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	104.0	98.0	99.5
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: AGT60396-13
Issue Number: 1
Date Issued: 29/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2424
Date Sampled: 20/03/2025
Dates Tested: 20/03/2025 - 25/03/2025
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 A
Material: (CH) CLAY with Sand, trace Gravel - Light Brown
Material Source: Onsite



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Approved Signatory: Paul Francis
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NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	60396-30	60396-31	60396-32	60396-33
Date Tested	20/03/2025	20/03/2025	20/03/2025	20/03/2025
Time Tested	10:00	11:00	13:00	14:50
Test Request #/Location	Aberdeen Estate - Stage A Retaining Easement	Aberdeen Estate - Stage A Retaining Easement	Aberdeen Estate - Stage A Retaining Easement	Aberdeen Estate - Stage A Retaining Easement
Latitude	-37.590840	-37.590160	-37.589829	-37.589749
Longitude	143.782284	143.782329	143.782427	143.782281
Layer / Reduced Level	FSL	FSL	1.0m below FSL	800mm below FSL
Thickness of Layer (mm)	150	150	150	150
Soil Description	(CH) CLAY with Sand, trace Gravel - Brown	(CH) CLAY with Sand, trace - Gravel - Brown	(CH) CLAY with Sand - Light brown	(CH) CLAY with Sand - Light brown
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.96	2.03	2.09	2.09
Field Moisture Content %	-5.0	17.3	19.7	21.6
Field Dry Density (FDD) t/m ³	2.06	1.73	1.74	1.72
Peak Converted Wet Density t/m ³	1.97	1.97	1.99	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	4.5	4.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	99.0	103.0	105.0	101.0
Compaction Method	Standard	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: AGT60396-14
Issue Number: 1
Date Issued: 30/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60396
Project Name: Aberdeen Estate - Stage A
Project Location: Aberdeen Estate
Work Request: 2438
Date Sampled: 25/03/2025
Dates Tested: 25/03/2025 - 25/03/2025
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 A
Material: (CH) Sandy 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	60396-34	60396-35	60396-36
Date Tested	25/03/2025	25/03/2025	25/03/2025
Time Tested	12:30	13:40	13:50
Test Request #/Location	Aberdeen Estate - Stage A Retaining Easement - Northern Edge	Aberdeen Estate - Stage A Retaining Easement - Northern Edge	Aberdeen Estate - Stage A Retaining Easement - Northern Edge
Latitude	-37.588466	-37.588466	-37.588340
Longitude	143.782638	143.782638	143.782587
Layer / Reduced Level	600 Below FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) Sandy CLAY - Brown	(CH) Sandy CLAY - Brown	(CH) Sandy 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	2.08	2.12	2.10
Field Moisture Content %	20.8	20.6	20.6
Field Dry Density (FDD) t/m ³	1.72	1.76	1.74
Peak Converted Wet Density t/m ³	2.04	2.09	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.5	2.0	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	101.5	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





