CHADWICK GEOTECHNICS

REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

Meridian Green Estate Clyde North
Stage 54 Lots 5401 to 5435

Prepared for:

Greenridge Properties Pty Ltd

22 October 2025

Our Ref: 1091936.054.v1

25 Metcalf Street, Dandenong South, Vic 3175, Melbourne, Australia
www.chadwickgeotechnics.com.au

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Document Control

Title:	Level One Inspection and testing Services.				
Date	**Version**	**Description**	**Prepared by:**	**Reviewed by:**	**Authorised by**
22 October 2025	1091936.054.V1.	Final Report	RHB	RWMC	MCDM

Distribution:

Greenridge Properties Pty Ltd	1 electronic copy
Chadwick Geotechnics Pty Ltd (FILE)	1 PDF copy

1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics), was engaged by Greenridge Properties Pty Ltd, to provide Level 1 Geotechnical Inspection and Testing Authority (GITA), services for the earthworks conducted within Stage 54 of the Meridian Green Estate in Clyde North. This report relates to the Stage 54 works only. Testing was undertaken between 5 June 2025 and 26 August 2025.

Level 1 GITA services as defined in AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development," requires full time inspection and field and laboratory testing of earthworks in accordance with AS1289 "Methods of Testing Soils for Engineering Purposes."

2 Project details

2.1 Location

Stage 54 is located north of Hardys Road. The site is to the west of Yeungroon Boulevard in Clyde North.

The included works are shown on the Site Plan in **Appendix A**. Figure 2.1 below is an extract from Nearmap taken at the time of writing this report.

Figure 2.1: Extract from Nearmap (4 Aug 2025)

2.2 Roles

The organisations and their roles are presented in Table 2.1

Table 2.1: Roles on the Project

Role	Organisation
Developer	Greenridge Properties Pty Ltd
Geotechnical Inspection and Testing Authority (GITA)	Chadwick Geotechnics Pty Ltd
Designer / Superintendent	Charlton Degg Pty Ltd
Earthworks Contractor	Brown Property Group Pty Ltd

Chadwick Geotechnics undertook the field density testing, and the compaction control laboratory testing was conducted in our NATA accredited laboratories.

2.3 Dates on Site

Geotechnical technical and engineering staff from Chadwick Geotechnics were onsite for the duration of the earthworks program on the days shown in Table 2.2 below.

Table 2.2: Level 1 GITA – Onsite Presence

Month	Dates on site
June 2025	5
July 2025	18, 21, 23, 24, 25, 30, 31
August 2025	2, 4, 5, 6, 11, 12, 13, 14, 15, 18, 19, 26

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within Meridian Green Estate Stage 54, as shown on the Site Plan in **Appendix A,** and with reference to Section 2.5 (Excluded Areas) of this report.

The following Lots were filled (or partially filled) during the Level 1 GITA supervision:

- The residential lots filled include Lots 5401 to 5434.

2.5 Excluded Areas

This report does not include fill outside the general boundary of the filled areas as shown in **Appendix A** of this report. No fill was placed on the lots not mentioned in Section 2.4 of this report.

Backfill of trenches for the underground services, fill on footpaths, driveways and roads, or placement of topsoil, were not part of the scope for the works supervised by Chadwick Geotechnics.

3 Specifications

The works were to be conducted in general accordance with the 'Guidelines on earthworks for commercial and residential developments' of AS3798-2007.

The following items were adopted as part of the project earthworks specifications:

- All Filling, in excess, of 200mm depth within the residential lots shall be undertaken to specifications satisfying the requirements of AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development".
- The fill soils to comply with the 'Suitable Material' in accordance with Section 4.4 of the AS3798-2007, and the following:
    - Maximum particle size of 150mm.
    - Particles over 37.5mm diameter not to exceed 20% of the material.
- Organic soils, topsoil, silts, or soils containing organic matter, wood, plastics, metal, or other deleterious materials are not acceptable.
- Subgrade to be proof rolled prior to placement of an engineered fill.
- Fill to be compacted in near horizontal layers not exceeding 250mm loose thickness.
- Compaction to achieve a ratio of at least 95% Standard Maximum Dry Density (SMDD).
- Frequency of testing to be in accordance with Table 8.1 of AS3798-2007.
- Finished fill surface to be surveyed prior to placement of topsoil.

4 Inspection and Testing

The inspection and testing of earthworks have been carried out in accordance with AS3798-2007, 'Guidelines on earthworks for commercial and residential developments', with a frequency of field density tests as per Table 8.1 (explained in Section 4.5 of this report). Compaction control laboratory testing was performed in a Chadwick Geotechnics NATA accredited laboratory in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

4.1 Earthworks

The earthworks for the project comprised of the following phases:

- Stripping of topsoil from the proposed fill areas.
- Assessment, remediation, and proof rolling of subgrade.
- Geotechnical compliance testing of the soils used for fill, and,
- Placement and compaction of engineered fill.

4.2 Fill material

Material used for the construction of the fill comprised of local gravelly and silty clays won from the road boxing and trench excavations on this and the surrounding sites. Some imported fill was also placed.

Samples of onsite fill material were collected for geotechnical compliance testing during construction. Results are summarised in **Table 4.1**, and the laboratory test certificate is provided in **Appendix C**.

Table 4.1: Compliance test Result Summary

Sample #	Particle Size Distribution (PSD)						Liquid Limit %	Plastic Limit %	Plasticity Index %	Source
	37.5 mm	19 mm	4.75 mm	1.18 mm	425 µm	0.75 µm				
S25DS-05715/1	100	100	99	98	96	92	76	23	53	On site

The laboratory test results indicate the fill material is clay of high plasticity and satisfied the requirements of the Specification.

The material was deemed as being derived from natural soils. The soil is considered as 'Suitable Material' in accordance with Section 4.4 of the AS3798-2007.

The fill material was not tested for classification of 'Fill Material' as defined in EPA Publication IWRG621. Environmental testing is not within Chadwick Geotechnics scope.

Any observed organic or deleterious matter including any oversize cobbles or boulders were removed from the tested areas during the fill placement.

Photographs of typical materials used during construction are shown below.

Photograph 4.1: Photographs of the material used on site

Photograph 1: Typical on-site clay material

Photograph 2: Sandy Mottled Orange Brown Clay

4.3 Subgrade Assessment / Proof Roll

The Subgrade of the site was progressively assessed during the period Chadwick Geotechnics personnel were on site.

Subgrade assessments were conducted following the removal of the topsoil that was present on site.

The subgrade inspections were performed in accordance with the Level 1 guidelines presented in AS3798–2007 Section 5.5. No soft spots or deflections were encountered during the inspections and the area was found to be firm and free of vegetation and other deleterious material.

Two photographs of the subgrade assessment phase at the project are shown below.

Photograph 4.2: Subgrade assessment photographs

Photograph 3: Subgrade assessment with a loaded water cart.

Photograph 4: Subgrade assessment with a loaded dump truck

4.4 Engineered Fill Construction

All fill material was brought by tandem trucks or from local or imported sources. The fill was spread with a bulldozer and compacted with a pad foot roller. A water cart was present onsite during the works for moisture conditioning of the materials.

All fill material was placed in lift sequences comprising horizontal layers. Chadwick Geotechnics verified that the surface of the stripped area, and that of additional lifts, was thoroughly scarified and moisture conditioned prior to placement of additional layers to prevent delamination at the layer interface. Once the placed fill was approved, the layer was compacted accordingly.

Chadwick Geotechnics personnel were on site on a fulltime basis during the placement, moisture conditioning, compaction, and testing of the fill on the dates noted in **Table 2.2** of this report.

The following machinery was on site during earthworks.

Table 4.2: Earthworks plant on site

Equipment type	Model
Dozer	**CAT D6 Dozer**
Pad foot roller	**CAT 15 Tonne CP56B**
Water cart	**CAT**
Dump trucks	**Tandem**
G12 Grader	**CAT**
Excavator	**CAT**

Photographs of typical machinery on site used during construction are shown below.

Photograph 4.3: General Earthwork machinery and fill construction photographs

Photograph 5: D6 Dozer spreading clay

Photograph 6: Pad foot compacting

Photograph 7: Excavator spreading clay.

Photograph 8: Water cart moisture conditioning

4.5 Density and Moisture testing

Field density and moisture content testing was undertaken progressively during construction on the compacted fill using a calibrated portable density and moisture gauge in accordance with AS1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS1289.5.7.1. Test locations were recorded using a handheld GPS unit. A site plan showing the field density test locations is provided in **Appendix A**.

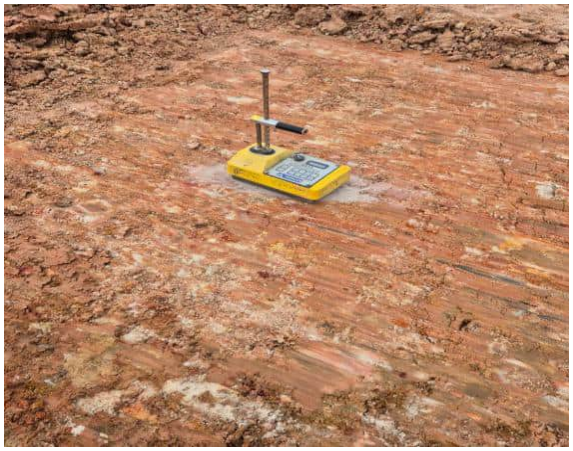
Testing was undertaken under the frequencies listed below, subject to the area and volume worked on the day of testing:

- 1 test per material type per layer per 2500m² or 1 test per 500m³ distributed reasonably evenly or 3 tests per lot – whichever requires the most tests in accordance with Type 1 Earthworks (large scale operations) as defined in Table 8.1 of the AS3798-2007.

Fifty-seven (57) tests were performed during the filling process. Six (6) of the tests did not achieve the recommended density or moisture ratio initially. The failed areas were reworked and retested accordingly. The retests returned passing density and moisture test results.

A summary table of HILF density tests is provided in **Appendix B** and the laboratory test reports are provided in **Appendix C**. Two photographs of field density testing conducted on site are shown below.

Photograph 4.4: Field Density/Moisture Testing photographs



Photograph 9: Field Density / moisture test

Photograph 10: Field Density / moisture test

5 Conclusion

On the basis, of our inspections and after considering all test results relating to the project, it is our opinion, so far as it is to be determined, that:

- The materials, used by the earth-works contractor met the geotechnical property requirements of the specification.
- The sourced fill was, considered to be natural, clean, and suitable for use at the site.
- The fill material placed was tested at a suitable frequency in accordance with AS3798-2007 Table 8.1 and the results indicate the compacted clay achieved the density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor and as witnessed by the Chadwick Geotechnics, combined with the satisfactory verification of test results achieved, it is inferred that areas of the site between test locations were performed to the same standard as those areas that have been tested.
- Based on observations made by Chadwick Geotechnics Level 1 personal and the results of field and laboratory tests, we consider that the engineered fill within the site (noted in Section 2.5), as far as we have been able to reasonably determine, have been placed in general accordance with the intent of the specification.
- It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2, Level 1 Inspection and Testing, AS3798-2007 Guidelines on Earthworks for Commercial and Residential Developments.

After earthwork construction works the maintenance of the fill is the sole responsibility of the Contractor. If the fill is not well maintained or protected with a sacrificial layer of topsoil or other fill, the uppermost layers and the exposed faces of the engineered fill may deteriorate as a result from exposure to varying weather conditions which can cause cracking or heaving of the fill. Any deterioration will need to be remediated prior to further construction on the site. Chadwick Geotechnics has not provided supervision since the above date and is not responsible for any subsequent deterioration that may have occurred or may occur since that date.

6 Applicability

This report has been prepared for the exclusive use of our client Greenridge Properties Pty Ltd in good faith and in accordance with the Chadwick Geotechnics quality system for the earthworks filling at the site.

This report is based on the nature of the project and the prevailing conditions between 5 June 2025 and 26 August 2025. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

Should you require any further information regarding this report, please do not hesitate to contact the undersigned on (03) 8796 7900.

Chadwick Geotechnics Pty Ltd

Report prepared by:

Authorised for Chadwick Geotechnics Pty Ltd by:

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Robert Barden

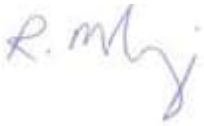
Project Manager

.....

Michael DiMeglio

Project Director

Report reviewed by:



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Robert McKenzie

Principal Geotechnical Engineer

RPEV Number: PE0005222

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Appendix A Test Location Plan

T:\Dandenong\Geo Projects\1091936\1091936.054 Stage 54 Meridian Green Estate\WorkingMaterial\CAD\FIG\1091936.054-F01.dwg 2025-Oct-22 4:33:57 PM Plotted By: KATHRYN JACKSON

LEGEND

S25DS-06221 — HILF DENSITY TEST LOCATION SITE 54

NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 04/08/2025.
2. BASE PLAN PROVIDED BY GREENRIDGE PROPERTIES PTY LTD REF: 1669_CPA_R CONCEPT PLAN. DATE RECEIVED: 29/07/2025.

A3 SCALE 1:1000

0 5 10 15 20 30 40 50 (m)

ORIGINAL IN COLOUR

CHADWICK GEOTECHNICS
www.chadwickgeotechnics.com.au

PROJECT No.	1091936.054	
DESIGNED		
DRAWN	KMJA	Oct.25
CHECKED	RHB	Oct.25
	R. BARDEN	20.10.2025
	APPROVED	DATE

CLIENT GREENRIDGE PROPERTIES PTY LTD

PROJECT MERIDIAN GREEN ESTATE - STAGE 54

TITLE LEVEL ONE HILF DENSITY TESTING
HILF DENSITY TEST LOCATION PLAN

SCALE (A3) 1:1000 FIG No. 1091936.054-F01 REV 1

Appendix B Hilf Density Test Summary

CHADWICK GEOTECHNICS

Meridian Green Stage 54, 1091936.054

HILF Density Testing - Field Summary

Report No	Sample No	Date	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS01186	S25DS-04591	5/06/2025	5419 / -	356996	5781015	31.565	102.5	2 dry	Pass	
HDR:W25DS01456	S25DS-05709	18/07/2025	5411 / 2	356975	5781110	33.042	100	2.5 wet	Pass	
HDR:W25DS01456	S25DS-05710	18/07/2025	5413 / 2	356972	5781091	32.943	99.5	0 wet	Pass	
HDR:W25DS01456	S25DS-05711	18/07/2025	5415 / 2	356970	5781063	32.798	97.5	0.5 dry	Pass	
HDR:W25DS01456	S25DS-05712	18/07/2025	5423 / 2	356995	5781090	32.338	97	0 wet	Pass	
HDR:W25DS01456	S25DS-05713	18/07/2025	5422 / 2	356993	5781073	32.335	99.5	0 dry	Pass	
HDR:W25DS01456	S25DS-05714	18/07/2025	5420 / 2	356990	5781051	32.107	99	2 wet	Pass	
HDR:W25DS01484	S25DS-05829	21/07/2025	5433 / 1	357042	5781066	30.706	100.5	1 wet	Pass	
HDR:W25DS01529	S25DS-06032	23/07/2025	5434 / 2	357041	5781054	30.931	99.5	2 wet	Pass	
HDR:W25DS01529	S25DS-06033	23/07/2025	5435 / 2	357039	5781039	30.758	95.5	2 wet	Pass	
HDR:W25DS01529	S25DS-06034	23/07/2025	5431 / 2	357048	5781088	31.102	98	3 wet	Pass	
HDR:W25DS01577	S25DS-06221	24/07/2025	5428 / 3	357048	5781125	31.998	95.5	3.5 wet	Fail	See Retest S25DS-06781
HDR:W25DS01577	S25DS-06222	24/07/2025	5434 / 3	357040	5781078	31.35	96.5	2 wet	Pass	
HDR:W25DS01577	S25DS-06223	24/07/2025	5433 / 3	357037	5781081	31.3	101	0 wet	Pass	
HDR:W25DS01593	S25DS-06301	25/07/2025	5420 / 5	356994	5781048	32.202	96.5	0.5 wet	Pass	
HDR:W25DS01593	S25DS-06302	25/07/2025	5421 / 5	356998	5781060	32.258	98.5	2.5 wet	Pass	
HDR:W25DS01657	S25DS-06580	30/07/2025	5416 / -	356971	5781056	32.87	97	0.5 wet	Pass	
HDR:W25DS01657	S25DS-06581	30/07/2025	5414 / -	356975	5781079	33.137	96	0.5 wet	Pass	
HDR:W25DS01657	S25DS-06582	30/07/2025	5412 / -	356978	5791098	33.368	101.5	1.5 wet	Pass	
HDR:W25DS01657	S25DS-06583	30/07/2025	5403 / -	356937	5781060	33.436	101	0 dry	Pass	
HDR:W25DS01657	S25DS-06584	30/07/2025	5404 / -	356940	5781071	33.52	103.5	0 wet	Pass	
HDR:W25DS01657	S25DS-06585	30/07/2025	5405 / -	356941	5781080	33.572	100.5	1 dry	Pass	

CHADWICK GEOTECHNICS

Meridian Green Stage 54, 1091936.054

HILF Density Testing - Field Summary

Report No	Sample No	Date	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS01661	S25DS-06588	31/07/2025	5409 / -	356953	5781131	33.808	98.5	0.5 dry	Pass	
HDR:W25DS01661	S25DS-06589	31/07/2025	5410 / -	356986	5781124	33.487	98	0 wet	Pass	
HDR:W25DS01661	S25DS-06590	31/07/2025	5426 / -	357009	5781121	32.432	100	2.5 wet	Pass	
HDR:W25DS01661	S25DS-06591	31/07/2025	5408 / -	356950	5781117	33.633	103.5	2 wet	Pass	
HDR:W25DS01678	S25DS-06657	2/08/2025	5427 / 3	357007	5781134	32.964	97.5	0.5 dry	Pass	
HDR:W25DS01678	S25DS-06658	2/08/2025	5425 / 3	357007	5781105	32.372	98	0 wet	Pass	
HDR:W25DS01678	S25DS-06659	2/08/2025	5430 / 3	357049	5781103	31.866	99	2 wet	Pass	
HDR:W25DS01678	S25DS-06660	2/08/2025	5429 / 3	357049	5781117	32.188 / 5429 / 3	98	3.5 wet	Fail	See Retest S25DS-06780
HDR:W25DS01694	S25DS-06724	4/08/2025	5423 / 5	357006	5781087	32.476	102	0.5 wet	Pass	
HDR:W25DS01694	S25DS-06725	4/08/2025	5424 / 5	357004	5781099	32.652	103	0.5 wet	Pass	
HDR:W25DS01716	S25DS-06780	5/08/2025	-	357048	5781117	-	102.5	0.5 wet	Pass	Retest of S25DS-06660
HDR:W25DS01716	S25DS-06781	5/08/2025	5428 / 1	357054	5781125	-	98.5	0.5 dry	Pass	Retest of S25DS-06221
HDR:W25DS01731	S25DS-06819	6/08/2025	5422 / -	357000	5781070	32.557	95.5	0.5 dry	Pass	
HDR:W25DS01731	S25DS-06820	6/08/2025	5420 / -	357002	5781048	32.396	94	0 dry	Fail	See Retest S25DS-07306
HDR:W25DS01815	S25DS-07235	11/08/2025	5418 / 3	356987	5781040	32.077	98	0.5 wet	Pass	
HDR:W25DS01815	S25DS-07236	11/08/2025	- / -	356971	5781042	32.498	99	1 wet	Pass	
HDR:W25DS01839	S25DS-07305	12/08/2025	5432 / 6	357042	5781073	31.862	100.5	3 wet	Pass	

CHADWICK GEOTECHNICS

Meridian Green Stage 54, 1091936.054

HILF Density Testing - Field Summary

Report No	Sample No	Date	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS01839	S25DS-07306	12/08/2025	5419 / 5	357004	5781038	32.492	96	0.5 dry	Pass	Retest of S25DS-06820
HDR:W25DS01839	S25DS-07307	12/08/2025	5430 / 7	357053	5781097	32.29	97	2 dry	Pass	
HDR:W25DS01861	S25DS-07377	13/08/2025	5411 / -	356982	5781112	33.653	92.5	0.5 wet	Fail	See Retest S25DS-07401
HDR:W25DS01861	S25DS-07378	13/08/2025	5412 / -	356979	5781099	33.514	94	0 dry	Fail	See Retest S25DS-07402
HDR:W25DS01869	S25DS-07398	14/08/2025	5401 / Final	356939	5781037	33.039	95.5	2 dry	Pass	
HDR:W25DS01869	S25DS-07399	14/08/2025	5402 / Final	356942	5781050	33.159	94.5	2 dry	Fail	See Retest S25DS-07626
HDR:W25DS01869	S25DS-07400	14/08/2025	5426 / -	357009	5781125	33.545	99.5	2 dry	Pass	
HDR:W25DS01869	S25DS-07401	14/08/2025	5411 / -	356985	5781114	33.612	105	1 wet	Pass	Retest of S25DS-07377
HDR:W25DS01869	S25DS-07402	14/08/2025	5412 / -	356977	5781099	33.51	98	2.5 wet	Pass	Retest of S25DS-07378
HDR:W25DS01897	S25DS-07501	15/08/2025	5407 / -	356949	5781102	33.898	98.5	0 wet	Pass	
HDR:W25DS01897	S25DS-07502	15/08/2025	5417 / -	356971	5781035	32.544	98.5	2.5 dry	Pass	
HDR:W25DS01897	S25DS-07503	15/08/2025	5408 / -	356949	5781117	34.064	98	0 wet	Pass	
HDR:W25DS01906	S25DS-07538	18/08/2025	5419 - /	357004	5781026	32.065	97.5	0 dry	Pass	
HDR:W25DS01906	S25DS-07539	18/08/2025	5418 / -	353985	5781029	32.464	99.5	0 dry	Pass	
HDR:W25DS01934	S25DS-07626	19/08/2025	5402 / Final	356943	5781051	33.516	98.5	0 wet	Pass	Retest of S25DS-07399
HDR:W25DS02032	S25DS-07979	26/08/2025	5429 / Final	357048	5781114	32.644	99.5	2.5 dry	Pass	
HDR:W25DS02032	S25DS-07980	26/08/2025	5432 / Final	357039	5781075	32.214	101	0.5 dry	Pass	
HDR:W25DS02032	S25DS-07981	26/08/2025	5419 / Final	357000	5781015	32.388	98	0.5 dry	Pass	

Appendix C NATA endorsed laboratory reports

CHADWICK GEOTECHNICS

Think Act Safe Be

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS01186
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 17/06/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: Clay

Sample Data

Sample ID	S25DS-04591		
Field Sample ID	1		
Date Tested	5/06/2025		
Time Tested	09:30		
E:	356995.6		
N:	5781015.3		
EL:	31.565		
Lot / Layer:	5419 / -		

Field and Laboratory Data

Depth of Test (mm)	125		
Depth of Layer (mm)	150		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	23.8		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.96		
Field Dry Density (t/m³)	1.59		
Peak Converted Wet Density (t/m³)	1.92		
Optimum Moisture Content (%)	26.0		
Compactive Effort	Standard		
Moisture Ratio (%)	91.0		
Moisture Variation (%)	2.0 dry		
Hilf Density Ratio (%)	**102.5**		

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS01456
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 30/07/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: CLAY

Sample Data

Sample ID	S25DS-05709	S25DS-05710	S25DS-05711	S25DS-05712	S25DS-05713	S25DS-05714
Field Sample ID	1	2	3	4	5	6
Date Tested	18/07/2025	18/07/2025	18/07/2025	18/07/2025	18/07/2025	18/07/2025
Time Tested	09:00	09:15	09:30	14:00	14:15	14:30
E:	356975.002	356972.128	356969.947	356995.357	356993.027	356990..284
N:	5781110.146	5781091.404	5781063.484	5781089.625	5781073.042	5781051.343
EL:	33.042	32.943	32.798	32.338	32.335	32.107
Lot / Layer:	5411 / 2	5413 / 2	5415 / 2	5423 / 2	5422 / 2	5420 / 2

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	28.2	27.0	21.8	24.1	22.7	27.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.88	1.88	1.87	1.93	1.93	1.89
Field Dry Density (t/m³)	1.47	1.48	1.53	1.55	1.57	1.48
Peak Converted Wet Density (t/m³)	1.88	1.89	1.91	1.98	1.93	1.91
Optimum Moisture Content (%)	25.5	27.0	22.5	24.0	23.0	25.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	110.0	100.0	96.5	100.5	100.0	107.5
Moisture Variation (%)	2.5 wet	0.0	0.5 dry	0.0	0.0	2.0 wet
Hilf Density Ratio (%)	**100.0**	**99.5**	**97.5**	**97.0**	**99.5**	**99.0**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Think Act Be Safe

Dandenong South
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25 Metcalf Street
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Report No: HDR:W25DS01484
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 30/07/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-05829					
Field Sample ID	1					
Date Tested	21/07/2025					
Time Tested	14:15					
E:	357041.574					
N:	5781065.843					
EL:	30.706					
Lot / Layer:	5433 / 1					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	29.1					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.85					
Field Dry Density (t/m³)	1.43					
Peak Converted Wet Density (t/m³)	1.84					
Optimum Moisture Content (%)	28.5					
Compactive Effort	Standard					
Moisture Ratio (%)	103.0					
Moisture Variation (%)	1.0 wet					
Hilf Density Ratio (%)	**100.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01529
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 30/07/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06032	S25DS-06033	S25DS-06034			
Field Sample ID	1	2	3			
Date Tested	23/07/2025	23/07/2025	23/07/2025			
Time Tested	08:50	09:10	09:20			
E:	357041.419	357039.030	357048.344			
N:	5781054.344	5781039.290	5781087.602			
EL:	30.931	30.758	31.102			
Lot / Layer:	5434 / 2	5435 / 2	5431 / 2			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	27.5	29.9	32.9			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.86	1.79	1.84			
Field Dry Density (t/m³)	1.46	1.37	1.39			
Peak Converted Wet Density (t/m³)	1.87	1.87	1.88			
Optimum Moisture Content (%)	25.5	28.0	30.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	107.5	106.5	109.5			
Moisture Variation (%)	2.0 wet	2.0 wet	3.0 wet			
Hilf Density Ratio (%)	**99.5**	**95.5**	**98.0**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01577
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 30/07/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Import
Material: Clay

Sample Data

Sample ID	S25DS-06221	S25DS-06222	S25DS-06223			
Field Sample ID	1	2	3			
Date Tested	24/07/2025	24/07/2025	24/07/2025			
Time Tested	15:15	15:30	15:50			
E:	357047.607	357040.197	357037.434			
N:	5781125.117	5781077.996	5781080.912			
EL:	31.998	31.350	31.300			
Lot / Layer:	5428 / 3	5434 / 3	5433 / 3			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	34.8	31.0	27.3			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.81	1.82	1.86			
Field Dry Density (t/m³)	1.34	1.39	1.46			
Peak Converted Wet Density (t/m³)	1.89	1.89	1.85			
Optimum Moisture Content (%)	31.0	29.0	27.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	111.5	107.5	100.5			
Moisture Variation (%)	3.5 wet	2.0 wet	0.0			
Hilf Density Ratio (%)	**95.5**	**96.5**	**101.0**			

Comments

Results relate only to the items tested/sampled.

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Report No: HDR:W25DS01593
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 30/07/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Import
Material: Clay

Sample Data

Sample ID	S25DS-06301	S25DS-06302				
Field Sample ID	1	2				
Date Tested	25/07/2025	25/07/2025				
Time Tested	13:45	14:10				
E:	356994.442	356997.564				
N:	5781047.806	5781059.555				
EL:	32.202	32.258				
Lot / Layer:	5420 / 5	5421 / 5				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	28.2	31.1				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.84	1.86				
Field Dry Density (t/m³)	1.43	1.42				
Peak Converted Wet Density (t/m³)	1.91	1.88				
Optimum Moisture Content (%)	27.5	28.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.0	108.0				
Moisture Variation (%)	0.5 wet	2.5 wet				
Hilf Density Ratio (%)	**96.5**	**98.5**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01657
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06580	S25DS-06581	S25DS-06582	S25DS-06583	S25DS-06584	S25DS-06585
Field Sample ID	1	2	3	4	5	6
Date Tested	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025
Time Tested	15:30	15:45	16:00	16:15	16:30	16:45
E:	356971.317	356974.667	356978.301	356936.935	356939.767	356940.776
N:	5781055.995	5781078.630	5791097.944	5781060.404	578107.661	5781079.904
EL:	32.870	33.137	33.368	33.436	33.520	33.572
Lot / Layer:	5416 / -	5414 / -	5412 / -	5403 / -	5404 / -	5405 / -

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	5	0	0	5
Field Moisture Content (%)	29.6	30.1	27.1	14.0	24.6	11.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.85	1.81	1.99	2.15	2.05	2.15
Field Dry Density (t/m³)	1.43	1.39	1.56	1.88	1.64	1.93
Peak Converted Wet Density (t/m³)	1.91	1.88	1.96	2.13	1.98	2.14
Optimum Moisture Content (%)	29.0	29.5	25.5	14.0	24.5	12.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	102.0	102.0	106.0	99.0	100.5	93.0
Moisture Variation (%)	0.5 wet	0.5 wet	1.5 wet	0.0	0.0	1.0 dry
Hilf Density Ratio (%)	**97.0**	**96.0**	**101.5**	**101.0**	**103.5**	**100.5**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01661
Issue No: 2
This report replaces all previous issues of report no 'HDR:W25DS01661'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: P. Semmel (Quality Co-Ordinator)
Date of Issue: 16/10/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06588	S25DS-06589	S25DS-06590	S25DS-06591		
Field Sample ID	1	2	3	4		
Date Tested	31/07/2025	31/07/2025	31/07/2025	31/07/2025		
Time Tested	15:30	15:40	15:50	16:00		
E:	356953	356986.377	357008.572	356949.694		
N:	5781130.973	5781123.886	5781120.869	5781116.515		
EL:	33.808	33.487	32.432	33.633		
Lot / Layer:	5409 / -	5410 / -	5426 / -	5408 / -		

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	23.0	30.3	34.2	30.7		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.89	1.87	1.83	1.96		
Field Dry Density (t/m³)	1.54	1.43	1.36	1.50		
Peak Converted Wet Density (t/m³)	1.92	1.91	1.83	1.90		
Optimum Moisture Content (%)	23.5	30.0	31.5	28.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	97.5	101.0	108.5	107.0		
Moisture Variation (%)	0.5 dry	0.0	2.5 wet	2.0 wet		
Hilf Density Ratio (%)	**98.5**	**98.0**	**100.0**	**103.5**		

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01678
Issue No: 2
This report replaces all previous issues of report no 'HDR:W25DS01678'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: P. Semmel (Quality Co-Ordinator)
Date of Issue: 16/10/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06657	S25DS-06658	S25DS-06659	S25DS-06660		
Field Sample ID	1	2	3	4		
Date Tested	2/08/2025	2/08/2025	2/08/2025	2/08/2025		
Time Tested	11:00	11:15	12:20	12:30		
E:	357007.469	357007.483	357048.603	357049.491		
N:	5781134.143	5781105.205	5781103.133	5781117.078		
EL:	32.964	32.372	31.866	32.188 / 5429 / 3		
Lot / Layer:	5427 / 3	5425 / 3	5430 / 3	5429 / 3		
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	27.0	25.6	29.1	30.1		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.83	1.93	1.90	1.87		
Field Dry Density (t/m³)	1.44	1.54	1.47	1.44		
Peak Converted Wet Density (t/m³)	1.87	1.97	1.93	1.91		
Optimum Moisture Content (%)	27.5	25.5	27.0	26.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	98.0	100.5	106.5	113.0		
Moisture Variation (%)	0.5 dry	0.0	2.0 wet	3.5 wet		
Hilf Density Ratio (%)	**97.5**	**98.0**	**99.0**	**98.0**		

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Dandenong South
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Report No: HDR:W25DS01694
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06724	S25DS-06725				
Field Sample ID	1	2				
Date Tested	4/08/2025	4/08/2025				
Time Tested	15:20	15:46				
E:	357006.427	357004.265				
N:	5781087.480	5781098.571				
EL:	32.476	32.652				
Lot / Layer:	5423 / 5	2424 / 5				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	34.1	30.2				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.86	1.89				
Field Dry Density (t/m³)	1.38	1.45				
Peak Converted Wet Density (t/m³)	1.82	1.84				
Optimum Moisture Content (%)	33.5	30.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	101.5	101.5				
Moisture Variation (%)	0.5 wet	0.5 wet				
Hilf Density Ratio (%)	**102.0**	**103.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01716
Issue No: 2
This report replaces all previous issues of report no 'HDR:W25DS01716'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: P. Semmel (Quality Co-Ordinator)
Date of Issue: 16/10/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06780	S25DS-06781				
Field Sample ID	1	2				
Date Tested	5/08/2025	5/08/2025				
Time Tested	11:15	11:30				
E:	357048	357054				
N:	5781117	5781125				
EL:	-	-				
Lot / Layer:	-	5428 / 1				
	Retest of S25DS-06660	Retest of S25DS-06221				
Field and Laboratory Data						
Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	27.3	17.5				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.00	2.03				
Field Dry Density (t/m³)	1.57	1.73				
Peak Converted Wet Density (t/m³)	1.95	2.06				
Optimum Moisture Content (%)	26.5	18.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.5	97.0				
Moisture Variation (%)	0.5 wet	0.5 dry				
Hilf Density Ratio (%)	**102.5**	**98.5**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Dandenong South
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Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS01731
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-06819	S25DS-06820				
Field Sample ID	1	2				
Date Tested	6/08/2025	6/08/2025				
Time Tested	13:30	13:45				
E:	357000.388	357001.729				
N:	5781070.392	5781048.051				
EL:	32.557	32.396				
Lot / Layer:	5422 / -	5420 / -				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	6.5	18.8				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.08	1.89				
Field Dry Density (t/m³)	1.95	1.59				
Peak Converted Wet Density (t/m³)	2.17	2.00				
Optimum Moisture Content (%)	7.0	19.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	95.0	99.5				
Moisture Variation (%)	0.5 dry	0.0				
Hilf Density Ratio (%)	**95.5**	**94.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01815
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07235	S25DS-07236				
Field Sample ID	1	2				
Date Tested	11/08/2025	11/08/2025				
Time Tested	14:30	15:00				
E:	356986.550	356970.604				
N:	5781039.812	5781041.962				
EL:	32.077	32.498				
Lot / Layer:	5418 / 3	- / -				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	30.9	30.4				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.87	1.87				
Field Dry Density (t/m³)	1.43	1.43				
Peak Converted Wet Density (t/m³)	1.91	1.88				
Optimum Moisture Content (%)	30.0	29.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.5	103.0				
Moisture Variation (%)	0.5 wet	1.0 wet				
Hilf Density Ratio (%)	**98.0**	**99.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01839
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07305	S25DS-07306	S25DS-07307			
Field Sample ID	1	2	3			
Date Tested	12/08/2025	12/08/2025	12/08/2025			
Time Tested	11:10	14:45	15:00			
E:	357041.862	357004.091	357052.905			
N:	5781073.328	5781038.115	5781097.367			
EL:	31.862	32.492	32.290			
Lot / Layer:	5432 / 6	5419 / 5	5430 / 7			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	31.6	21.5	25.4			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.92	1.88	1.84			
Field Dry Density (t/m³)	1.46	1.55	1.46			
Peak Converted Wet Density (t/m³)	1.92	1.96	1.89			
Optimum Moisture Content (%)	28.5	22.0	27.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	111.5	97.5	93.0			
Moisture Variation (%)	3.0 wet	0.5 dry	2.0 dry			
Hilf Density Ratio (%)	**100.5**	**96.0**	**97.0**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01861
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07377	S25DS-07378				
Field Sample ID	1	2				
Date Tested	13/08/2025	13/08/2025				
Time Tested	15:10	15:20				
E:	356982.017	356978.753				
N:	5781111.807	5781098.599				
EL:	33.653	33.514				
Lot / Layer:	5411 / -	5412 / -				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	21.0	25.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.93	1.86				
Field Dry Density (t/m³)	1.59	1.49				
Peak Converted Wet Density (t/m³)	2.08	1.98				
Optimum Moisture Content (%)	20.5	25.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.0	100.0				
Moisture Variation (%)	0.5 wet	0.0				
Hilf Density Ratio (%)	**92.5**	**94.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01869
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07398	S25DS-07399	S25DS-07400	S25DS-07401	S25DS-07402	
Field Sample ID	1	2	3	4	5	
Date Tested	14/08/2025	14/08/2025	14/08/2025	14/08/2025	14/08/2025	
Time Tested	10:50	11:00	13:15	15:20	15:30	
E:	356939.453	356942.053	357009.412	356785.012	356985	
N:	5781037.272	5781050.385	5781125.457	5781114.0001	5781099.413	
EL:	33.039	33.159	33.545	33.612	33.510	
Lot / Layer:	5401 / Final	5402 / Final	5426 / -	5411 / -	5412 / -	
				Retest of S25DS-07377	Retest of S25DS-07378	
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	
Depth of Layer (mm)	200	200	200	200	200	
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	
Oversize Wet (%)	0	0	0	0	0	
Field Moisture Content (%)	18.6	19.1	21.3	36.1	27.7	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.91	1.89	1.96	1.94	1.90	
Field Dry Density (t/m³)	1.61	1.59	1.62	1.42	1.49	
Peak Converted Wet Density (t/m³)	2.00	2.01	1.97	1.84	1.93	
Optimum Moisture Content (%)	21.0	21.5	23.5	35.0	25.5	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Ratio (%)	89.5	89.0	90.5	103.0	109.5	
Moisture Variation (%)	2.0 dry	2.0 dry	2.0 dry	1.0 wet	2.5 wet	
Hilf Density Ratio (%)	**95.5**	**94.5**	**99.5**	**105.0**	**98.0**	

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01897
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07501	S25DS-07502	S25DS-07503			
Field Sample ID	1	2	3			
Date Tested	15/08/2025	15/08/2025	15/08/2025			
Time Tested	11:15	11:30	15:00			
E:	356948.560	356970.678	356948.976			
N:	5781102.186	5781034.882	5781117.248			
EL:	33.898	32.544	34.064			
Lot / Layer:	5407 / -	5417 / -	5408 / -			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	14.3	16.3	22.1			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	2.02	1.96	2.04			
Field Dry Density (t/m³)	1.77	1.68	1.67			
Peak Converted Wet Density (t/m³)	2.06	1.99	2.08			
Optimum Moisture Content (%)	14.0	19.0	22.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	100.5	86.5	100.0			
Moisture Variation (%)	0.0	2.5 dry	0.0			
Hilf Density Ratio (%)	**98.5**	**98.5**	**98.0**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
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Report No: HDR:W25DS01906
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07538	S25DS-07539				
Field Sample ID	1	2				
Date Tested	18/08/2025	18/08/2025				
Time Tested	09:00	09:10				
E:	357003.995	356984.748				
N:	5781025.512	5781029.470				
EL:	32.065	32.464				
Lot / Layer:	5419 - /	5418 / -				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	11.8	17.1				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.11	2.03				
Field Dry Density (t/m³)	1.88	1.74				
Peak Converted Wet Density (t/m³)	2.16	2.04				
Optimum Moisture Content (%)	12.0	17.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	100.0	100.0				
Moisture Variation (%)	0.0	0.0				
Hilf Density Ratio (%)	**97.5**	**99.5**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS01934
Issue No: 2
This report replaces all previous issues of report no 'HDR:W25DS01934'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

ilac-MRA NATA

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: P. Semmel (Quality Co-Ordinator)
Date of Issue: 16/10/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07626					
Field Sample ID	1					
Date Tested	19/08/2025					
Time Tested	12:40					
E:	356943					
N:	5781051					
EL:	-					
Lot / Layer:	5402 / Final					
	S25DS-07399					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	20.0					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.00					
Field Dry Density (t/m³)	1.66					
Peak Converted Wet Density (t/m³)	2.03					
Optimum Moisture Content (%)	20.0					
Compactive Effort	Standard					
Moisture Ratio (%)	100.5					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**98.5**					

Comments

Results relate only to the items tested/sampled.

Dandenong South
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Report No: HDR:W25DS02032
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 9/09/2025

Sample Details

Location:
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material: Clay

Sample Data

Sample ID	S25DS-07979	S25DS-07980	S25DS-07981			
Field Sample ID	1	2	3			
Date Tested	26/08/2025	26/08/2025	26/08/2025			
Time Tested	09:50	10:00	13:30			
E:	357048.497	357039.492	356999.978			
N:	5781114.392	5781075.205	5781015.027			
EL:	32.644	32.214	32.388			
Lot / Layer:	5429 / Final	5432 / Final	5419 / Final			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	18.7	23.9	18.7			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.90	1.97	1.94			
Field Dry Density (t/m³)	1.60	1.59	1.64			
Peak Converted Wet Density (t/m³)	1.91	1.95	1.99			
Optimum Moisture Content (%)	21.0	24.5	19.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	89.0	98.0	98.5			
Moisture Variation (%)	2.5 dry	0.5 dry	0.5 dry			
Hilf Density Ratio (%)	**99.5**	**101.0**	**98.0**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: MAT:S25DS-05715/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 54
Project No.: 1091936.054
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Sample Location	E 356990.284, N 5781051.343, ELv 32.107, Lot 2420, Layer 2
Field Sample ID	1
Date Sampled	18/07/2025
Time Sampled	14:30
Source	Imported
Material	CH CLAY, trace gravel, trace sand, orange brown, high plasticity
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S25DS-05715

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	32.5	
Date Tested		23/07/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	14.0	
Mould Length (mm)		250	
Crumbling		Yes	
Curling		No	
Cracking		Yes	
Liquid Limit (%)	AS 1289.3.1.2	76	
Plastic Limit (%)	AS 1289.3.2.1	23	
Plasticity Index (%)	AS 1289.3.3.1	53	
Date Tested		31/07/2025	

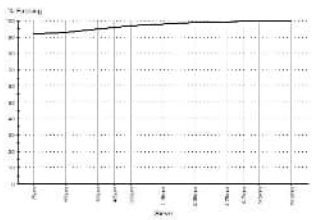
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 25/07/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
9.5mm	100	
6.7mm	100	
4.75mm	99	
2.36mm	99	
1.18mm	98	
600µm	97	
425µm	96	
300µm	95	
150µm	93	
75µm	92	

Chart



Comments

Results relate only to the items tested/sampled.

Appendix D Fill Certificate

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Meridian Green Estate
Stage 54
Lots 5401 to 5434

REF: 1091936.054.R1.v1

CLIENT : Greenridge Properties Pty Ltd
P.O Box 4136
Dandenong South Victoria, 3164

DATE: 22 October 2025

SUMMARY

Chadwick Geotechnics Pty Ltd conducted, Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments,* during the filling of the site.

So far as can be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding topsoil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (5 June 2025 and was completed 26 August 2025). No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Project Manager

Michael DiMeglio
Project Director

CHADWICK
GEOTECHNICS