



# **REPORT**

## **Level 1 Geotechnical Inspection and Testing Authority Services**

**Meridian Green Estate Clyde North  
Stage 53 Lots 5303 to 5338 and the  
Stage 53 Superlot**

**Prepared for:**

**Greenridge Properties Pty Ltd**

**27 February 2026**

Our Ref: 1091936.053.v1

## Table of contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
<b>2</b>	<b>Project details</b>	<b>3</b>
	2.1 Location	3
	2.2 Roles	4
	2.3 Dates on Site	4
	2.4 Included Areas	5
	2.5 Excluded Areas	5
<b>3</b>	<b>Specifications</b>	<b>5</b>
<b>4</b>	<b>Inspection and Testing</b>	<b>6</b>
	4.1 Earthworks	6
	4.2 Fill material	6
	4.3 Subgrade Assessment / Proof Roll	7
	4.4 Engineered Fill Construction	8
	4.5 Density and Moisture testing	10
<b>5</b>	<b>Conclusion</b>	<b>12</b>
<b>6</b>	<b>Applicability</b>	<b>13</b>

<b>Appendix A</b>	<b>Test Location Plan</b>
<b>Appendix B</b>	<b>Hilf Density Test Summary</b>
<b>Appendix C</b>	<b>NATA endorsed laboratory reports</b>
<b>Appendix D</b>	<b>Fill Certificate</b>

**Document Control**

<b>Title: Level One Inspection and testing Services.</b>					
<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Authorised by</b>
27 Feb 2026	1091936.053.R1.	Final Report	RHB	RWMC	RWMC

## 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 within Stage 53 of the Meridian Green Estate in Clyde North. This report relates to the residential lots within Stage 53 and the earthworks related to the Superlot area. The testing was undertaken between 19 February 2025 and 24 February 2026.

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 53 is located north of Hardys Road. The site is west of Yeungroon Boulevard and Stage 54 and 55 are located to the west of the site. The Future school site is located to the east of Stage 53.

The included works area is 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 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
February 2025	19, 20
March 2025	6
July 2025	21, 24
August 2025	5, 7, 8, 11, 14, 18, 19, 20, 21, 22, 25, 26, 28
September 2025	1, 2, 3, 4, 5, 8, 9, 10, 11, 15, 16
February 2026	24

## 2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within the Meridian Green Estate Stage 53, as shown on the Site Plan in **Appendix A**, and with reference to Section 2.5 (Excluded Areas) of this report.

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

- The residential lots filled include Lots 5303 to Lot 5338.
- Stage 53 Superlot.

## 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 of the residential lots to achieve a ratio of at least 95% Standard Maximum Dry Density (SMDD).
- Compaction of the Superlot to achieve a ratio of at least 98% 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 of subgrade prior to earthworks.
- 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 were taken from the site comprising of local material used for fill was taken for geotechnical compliance testing during the works. The material compliance test results are summarised in **Table 4.1** The laboratory test certificate is attached 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	13.2 mm	4.75 mm	1.18 mm	425 µm	0.75 µm				
S25DS-07625	100	98	92	81	70	37	40	12	28	Import
S25DS-08224	100	99	95	92	84	61	59	18	41	Import
S25DS-08251	100	96	91	87	84	56	35	13	22	Import

The laboratory test results indicate the fill material is clay of medium to 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.

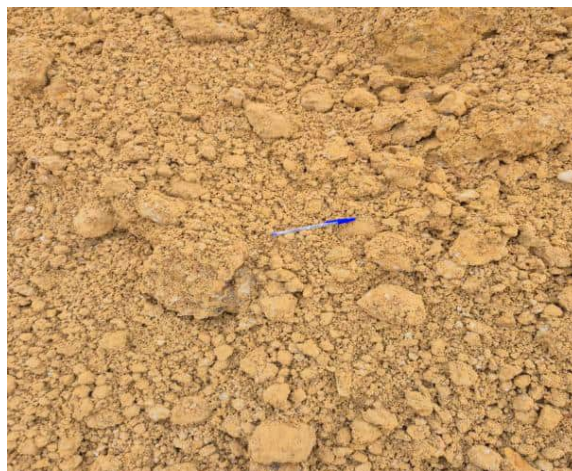
Any observed organic or deleterious matter including any oversize cobbles or boulders were removed from the tested areas during the fill placement.

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*

#### 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	1
Dump trucks	Tandem
CAT G12 Grader	1
Excavator	1

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

**Photograph 4.3: General Earthwork machinery and fill construction photographs**



*Photograph 5: Dozer spreading clay fill material.*



*Photograph 6: Vibrating Pad foot compacting*



*Photograph 7: Excavator.*



*Photograph 8: Grader ripping.*

#### 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 2500m<sup>2</sup> or 1 test per 500m<sup>3</sup> 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;

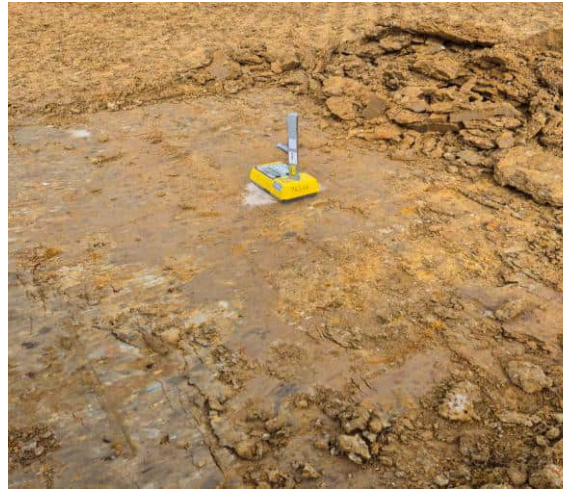
Eighty-Eight (88) tests were performed during the filling process. Twelve (12) of the tests did not achieve the recommended density or moisture ratio initially. The failed areas were reworked and retested accordingly. The retests returned passing density and moisture test results.

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 AS 3798-2007- 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.

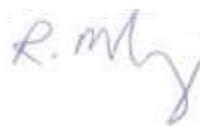
This report is based on the nature of the project and the prevailing conditions between 19 February 2025 and 24 February 2026. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there 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:



Per Robert Mckenzie

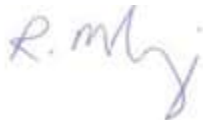
.....  
Robert Barden

.....  
Michael DiMeglio

Project Manager

Project Director

Report reviewed by:



.....  
Robert McKenzie

Principal Geotechnical Engineer


RPEV Number: PE0005222

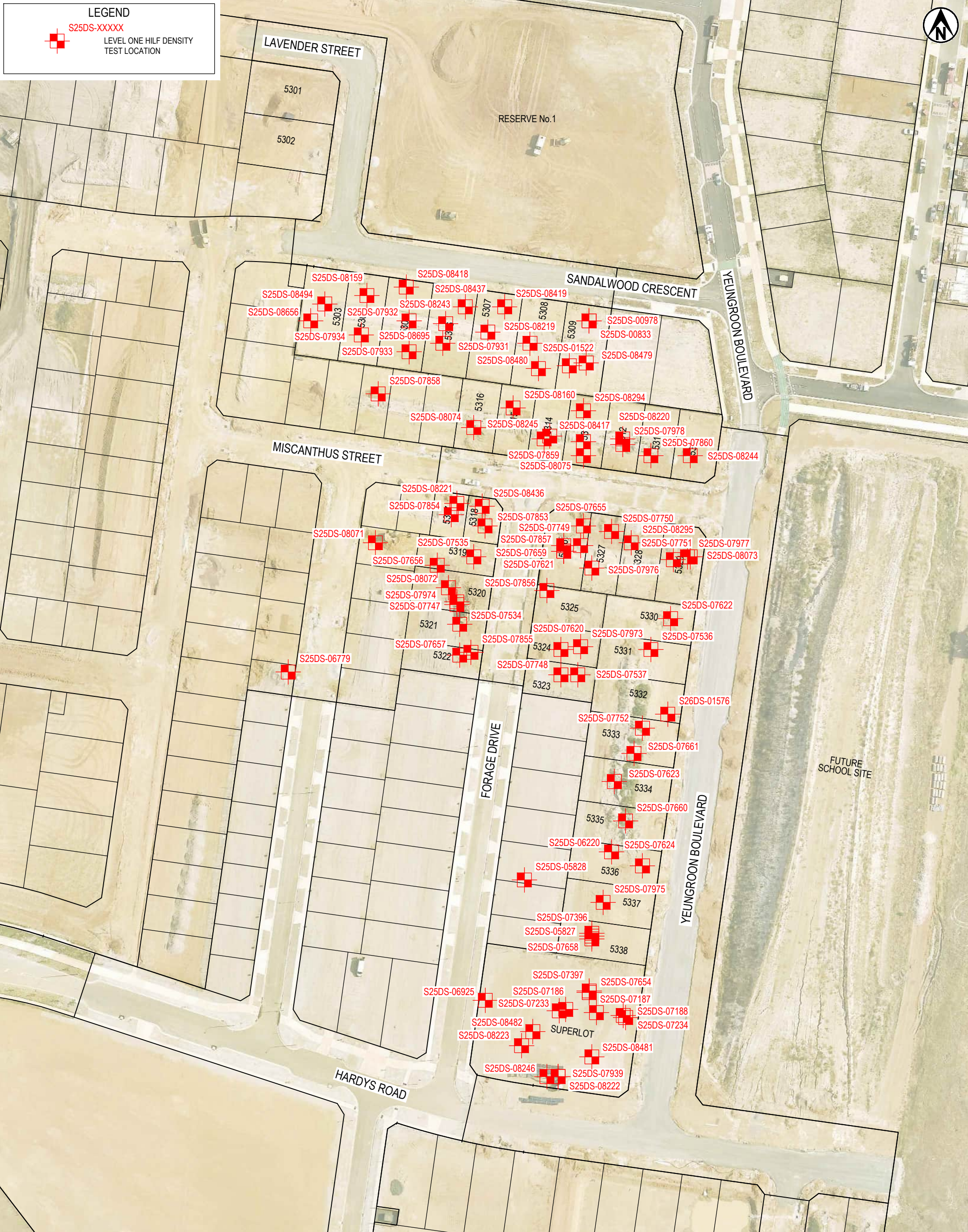
p:\1091936\1091936.053 stage 53 meridian green estate completed\level 1 lots ans sup\level 1 report\1091936.053. meridian green st 53 l1 superlot and residential.docx

## **Appendix A    Test Location Plan**

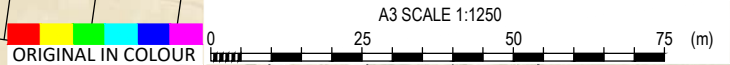
---

**LEGEND**

 **S25DS-XXXXX**  
LEVEL ONE HILF DENSITY TEST LOCATION



**NOTES:**  
 1. AERIAL IMAGE SOURCED METROMAP BY AEROMETREX 2026. COPYRIGHT MAPBOX. COPYRIGHT OPENSTREET MAP. IMAGERY DATE: 12/01/2026.  
 2. BASE PLAN PROVIDED BY CHARLTON DEGG. DRAWING REFERENCE: 1669-53\_Design\_RevC.dwg. DATE RECEIVED: 03/10/2025.



<b>PROJECT No.</b> 1091936.053			<b>CLIENT</b> GREENRIDGE PROPERTIES PTY LTD		
<b>DESIGNED</b>	STPA	Mar.26	<b>PROJECT</b> MERIDIAN GREEN ESTATE CLYDE - STAGE 53		
<b>DRAWN</b>	KMJA	Mar.26	<b>TITLE</b> LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST LOCATION PLAN		
<b>CHECKED</b>			<b>SCALE (A3)</b> 1:1250		
<b>PRELIMINARY DRAFT</b>			<b>FIG No.</b> 1091936.053-F01		
<b>APPROVED</b>		<b>DATE</b>	<b>REV</b> 1		

## **Appendix B      Hilf Density Test Summary**

---



## Meridian Green, 1091936.053 Residential and Superlot

Chadwick Geotechnics  
 25 Metcalf Street  
 Dandenong South VIC 3175  
 Tel : ( 03 ) 8796 7900  
 Fax: ( 03 ) 9706 9431  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)



### HILF Density Testing - Field Summary

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (residential $\geq 95\%$ (superlot $\geq 95\%$ )	Moisture Variation	Pass / Fail	Comments (Retest No)
HDR:W25DS00276	S25DS-00833	19/02/2025	1	5309	357065	5781268	35.424	108.5	2.5 dry	Fail	See Retest S25DS-00978
HDR:W25DS00293	S25DS-00978	20/02/2025	1	5309	357065	5781268		99	2.5 dry	Pass	Retest of S25DS-00833
HDR:W25DS00423	S25DS-01522	6/03/2025	1	5309	357058	5781252	35.983	96.5	3 dry	Pass	
HDR:W25DS01483	S25DS-05827	21/07/2025	1	5338 / 1	357066	5781048	29.968	98	3 wet	Pass	
HDR:W25DS01483	S25DS-05828	21/07/2025	2	5337 / 1	357042	5781069	30.234	99.5	2.5 wet	Pass	
HDR:W25DS01576	S25DS-06220	24/07/2025	1	-	357073	5781079	30.621	97.5	0.5 wet	Pass	
HDR:W25DS01715	S25DS-06779	5/08/2025	2	3	356958	5781143	33.823	100.5	0.5 dry	Pass	small excavation that was backfilled
HDR:W25DS01867	S25DS-07396	14/08/2025	1	5338 / 5	357066	5781050	30.382	94	0 wet	Fail	See Retest S25DS-07658
HDR:W25DS01905	S25DS-07534	18/08/2025	1	5321 / 1	357019	5781160	32.704	102.5	1 wet	Pass	
HDR:W25DS01905	S25DS-07535	18/08/2025	2	5319 / 1	357024	5781184	33.11	99	2.5 wet	Pass	
HDR:W25DS01905	S25DS-07536	18/08/2025	3	5331 / 1	357087	5781151	31.863	99	2 dry	Pass	
HDR:W25DS01905	S25DS-07537	18/08/2025	4	5332 / 1	357061	5781142	31.849	99.5	2.5 dry	Pass	
HDR:W25DS01932	S25DS-07620	19/08/2025	1	5324 / 2	357055	5781151	32.306	98.5	0.5 dry	Pass	
HDR:W25DS01932	S25DS-07621	19/08/2025	2	5325 / 2	357056	5781186	33.255	94.5	0 dry	Fail	See retest S25DS-07659
HDR:W25DS01932	S25DS-07622	19/08/2025	3	5330 / 2	357094	5781162	32.314	97.5	0 dry	Pass	
HDR:W25DS01932	S25DS-07623	19/08/2025	4	5334 / 4	357074	5781104	31.264	96.5	0 wet	Pass	



## Meridian Green, 1091936.053 Residential and Superlot

Chadwick Geotechnics  
 25 Metcalf Street  
 Dandenong South VIC 3175  
 Tel : ( 03 ) 8796 7900  
 Fax: ( 03 ) 9706 9431  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)



### HILF Density Testing - Field Summary

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (residential $\geq 95\%$ ) (superlot $\geq 95\%$ )	Moisture Variation	Pass / Fail	Comments (Retest No)
HDR:W25DS01932	S25DS-07624	19/08/2025	5	5336 / 4	357084	5781074	30.556	95	0 wet	Pass	
HDR:W25DS01944	S25DS-07655	20/08/2025	1	5326 / 3	357063	5781195	33.511	92.5	0 wet	Fail	See retest S25DS-07749
HDR:W25DS01944	S25DS-07656	20/08/2025	2	5328 / 3	357011	5781181	33.134	98	2.5 wet	Pass	
HDR:W25DS01944	S25DS-07657	20/08/2025	3	5322 / 3	357019	5781149	33.103	102.5	0 dry	Pass	
HDR:W25DS01944	S25DS-07658	20/08/2025	4	5338 / 5	357066	5781049	30.274	106.5	3 dry	Pass	Retest of S25DS-07396
HDR:W25DS01944	S25DS-07659	20/08/2025	5	5325 / 2	357056	5781186	33.267	100.5	0 dry	Pass	Retest of S25DS-07621
HDR:W25DS01944	S25DS-07660	20/08/2025	6	5335 / 5	357078	5781090	31.191	98	2.5 dry	Pass	
HDR:W25DS01944	S25DS-07661	20/08/2025	7	5333 / 5	357081	5781114	31.62	99	0 dry	Pass	
HDR:W25DS01964	S25DS-07747	21/08/2025	1	5230 / 4	357018	5781167	33.749	100	1 dry	Pass	
HDR:W25DS01964	S25DS-07748	21/08/2025	2	5323 / 4	357055	5781142	32.868	93.5	0.5 dry	Fail	See Retest S25DS-07974
HDR:W25DS01964	S25DS-07749	21/08/2025	3	5326 / 3	357062	5781188	33.658	102	4.5 dry	Fail	Retest of 7655, See Retest S25DS-07857
HDR:W25DS01964	S25DS-07750	21/08/2025	4	5327 / 4	357073	5781193	33.596	100.5	3 dry	Pass	
HDR:W25DS01964	S25DS-07751	21/08/2025	5	5329 / 4	357095	5781183	33.282	101.5	0 dry	Pass	
HDR:W25DS01964	S25DS-07752	21/08/2025	6	5333 / 4	357084	5781123	31.187	99.5	0.5 dry	Pass	
HDR:W25DS01995	S25DS-07853	22/08/2025	1	5318 / 5	357028	5781195	34.274	96	3 dry	Pass	
HDR:W25DS01995	S25DS-07854	22/08/2025	2	5317 / 5	357016	5781199	34.453	103	0 wet	Pass	
HDR:W25DS01995	S25DS-07855	22/08/2025	3	5322 / 5	357023	5781150	33.471	101.5	0.5 wet	Pass	
HDR:W25DS01995	S25DS-07856	22/08/2025	4	5325 / 5	357050	5781172	33.843	99	0 wet	Pass	
HDR:W25DS01995	S25DS-07857	22/08/2025	5	5326 / 3	357056	5781188	-	104	0 dry	Pass	Retest of S25DS-07749



## Meridian Green, 1091936.053 Residential and Superlot

Chadwick Geotechnics  
 25 Metcalf Street  
 Dandenong South VIC 3175  
 Tel : ( 03 ) 8796 7900  
 Fax: ( 03 ) 9706 9431  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)



### HILF Density Testing - Field Summary

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (residential $\geq 95\%$ ) (superlot $\geq 95\%$ )	Moisture Variation	Pass / Fail	Comments (Retest No)
HDR:W25DS01995	S25DS-07858	22/08/2025	6	5328 / 1	356990	5781242	34.906	99.5	0 dry	Pass	
HDR:W25DS01995	S25DS-07859	22/08/2025	7	5314 / 1	357051	5781227	33.92	99	0.5 dry	Pass	
HDR:W25DS01995	S25DS-07860	22/08/2025	8	5311 / 1	357087	5781220	33.652	106	1.5 dry	Pass	
HDR:W25DS02016	S25DS-07931	25/08/2025	1	5307 / 1	357029	5781264	34.696	101.5	2.5 dry	Pass	
HDR:W25DS02016	S25DS-07932	25/08/2025	2	5305 / 1	357001	5781268	35.415	108	2.5 dry	Pass	
HDR:W25DS02016	S25DS-07933	25/08/2025	3	5305 / 2	357001	5781257	34.444	99	1 dry	Pass	
HDR:W25DS02016	S25DS-07934	25/08/2025	4	5304 / 2	356984	5781263	35.534	98.5	1.5 dry	Pass	
HDR:W25DS02030	S25DS-07973	26/08/2025	1	5324 / Final	357062	5781152	33.423	102.5	2.5 dry	Pass	
HDR:W25DS02030	S25DS-07974	26/08/2025	2	5320 / 4	357018	5781168	33.726	100.5	2 dry	Pass	Retest of S25DS-07748
HDR:W25DS02030	S25DS-07975	26/08/2025	3	5337 / 7	357070	5781061	30.969	101.5	0 dry	Pass	
HDR:W25DS02030	S25DS-07976	26/08/2025	4	5327 / 6	357066	5781180	34.023	101	0 dry	Pass	
HDR:W25DS02030	S25DS-07977	26/08/2025	5	5329 / 6	357100	5781184	33.441	106	4 dry	Fail	See Retest S25DS-08073
HDR:W25DS02030	S25DS-07978	26/08/2025	6	5312 / 2	357077	5781224	33.914	97.5	0.5 dry	Pass	
HDR:W25DS02053	S25DS-08071	28/08/2025	1	5323 / 7	356989	5781189	35.262	95	2.5 wet	Pass	
HDR:W25DS02053	S25DS-08072	28/08/2025	2	5320 / 7	357015	5781173	34.648	97	1.5 dry	Pass	
HDR:W25DS02053	S25DS-08073	28/08/2025	3	5329 / 6	357101	5781184	33.404	101	0 wet	Pass	Retest of S25DS-07977
HDR:W25DS02053	S25DS-08074	28/08/2025	4	5316 / 3	357024	5781230	34.992	96	0.5 wet	Pass	
HDR:W25DS02053	S25DS-08075	28/08/2025	5	5313 / 3	357063	5781220	34.395	95	0.5 dry	Pass	
HDR:W25DS02083	S25DS-08159	1/09/2025	1	5304 / 4	356986	5781277	36.367	96	0 dry	Pass	
HDR:W25DS02083	S25DS-08160	1/09/2025	2	5315 / 4	357038	5781237	35.297	97	0.5 wet	Pass	
HDR:W25DS02094	S25DS-08219	2/09/2025	1	5308 / 5	357044	5781260	35.525	95.5	2.5 dry	Pass	
HDR:W25DS02094	S25DS-08220	2/09/2025	2	5321 / 4	357077	5781226	34.661	98	0.5 wet	Pass	



## Meridian Green, 1091936.053 Residential and Superlot

Chadwick Geotechnics  
 25 Metcalf Street  
 Dandenong South VIC 3175  
 Tel : ( 03 ) 8796 7900  
 Fax: ( 03 ) 9706 9431  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)



### HILF Density Testing - Field Summary

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (residential $\geq 95\%$ ) (superlot $\geq 95\%$ )	Moisture Variation	Pass / Fail	Comments (Retest No)
HDR:W25DS02094	S25DS-08221	2/09/2025	3	5317 / 7	357018	5781203	35.142	98.5	0.5 wet	Pass	
HDR:W25DS02104	S25DS-08243	3/09/2025	1	5306 / 6	357014	5781267	36.602	104.5	0 dry	Pass	
HDR:W25DS02104	S25DS-08244	3/09/2025	2	5410 / 5	357101	5781220	34.445	98.5	0.5 dry	Pass	
HDR:W25DS02104	S25DS-08245	3/09/2025	3	5414 / 5	357049	5781226	35.418	96.5	0.5 dry	Pass	
HDR:W25DS02124	S25DS-08294	4/09/2025	1	5313 / 6	357063	5781236	35.375	91.5	0 dry	Fail	See Retest S25DS-08417
HDR:W25DS02124	S25DS-08295	4/09/2025	2	5325 / Final	357080	5781189	34.174	97.5	0.5 dry	Pass	
HDR:W25DS02148	S25DS-08417	5/09/2025	1	5313 / 6	357063	5781225	33.172	103	0 wet	Pass	Retest of S25DS-08294
HDR:W25DS02149	S25DS-08418	8/09/2025	1	5305 / 7	357000	5781280	36.971	101.5	1.5 dry	Pass	
HDR:W25DS02149	S25DS-08419	8/09/2025	2	5307 / 7	357035	5781273	36.598	96.5	0 wet	Pass	
HDR:W25DS02160	S25DS-08436	9/09/2025	1	5318 / 6	357027	5781202	35.318	99	0.5 dry	Pass	
HDR:W25DS02160	S25DS-08437	9/09/2025	2	5306 / 7	357021	5781273	37.141	100	1.5 dry	Pass	
HDR:W25DS02175	S25DS-08479	10/09/2025	1	5309 / 7	357064	5781253	36.355	98.5	1 dry	Pass	
HDR:W25DS02175	S25DS-08480	10/09/2025	2	5308 / 7	357047	5781251	36.826	97	0 dry	Pass	
HDR:W25DS02182	S25DS-08494	11/09/2025	1	5303 / 2	356971	5781274	37.063	96.5	1.5 dry	Pass	
HDR:W25DS02226	S25DS-08656	15/09/2025	1	5303 / Final	356966	5781268	37.793	95	0.5 dry	Pass	
HDR:W25DS02240	S25DS-08695	16/09/2025	1	5306 / Final	357013	5781260	37.734	96	0 dry	Pass	
HDR:W26DS00428	S26DS-01576	24/02/2026	1	5332	357093	5781128	31.941	107	3.0 Dry	Pass	
HDR:W25DS01754	S25DS-06925	7/08/2025	1	Superlot	357028	5781026	31.076	99.5	2.5 wet	Pass	
HDR:W25DS01805	S25DS-07186	8/08/2025	1	Superlot	357057	5781023	30.28	96	1.5 dry	Fail	See Retest S25DS-07233
HDR:W25DS01805	S25DS-07187	8/08/2025	2	Superlot	357068	5781022	30.315	101.5	1 dry	Pass	
HDR:W25DS01805	S25DS-07188	8/08/2025	3	Superlot	357077	5781021	30.418	96.5	0.5 dry	Fail	See Retest S25DS-07234
HDR:W25DS01814	S25DS-07233	11/08/2025	1	Superlot	357054	5781022	30.264	102	2 dry	Pass	Retest of S25DS-07186
HDR:W25DS01814	S25DS-07234	11/08/2025	2	Superlot	357078	5781020	30.317	100.5	2 dry	Pass	Retest of S25DS-07188



## **Appendix C      NATA endorsed laboratory reports**

---



**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:W25DS00276**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*K. B. Patel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: Krushik Patel  
 (Senior Geotechnician)  
 Date of Issue: 12/03/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-00833		
Field Sample ID	1		
Date Tested	19/02/2025		
Time Tested	08:40		
E:	357064.614		
N:	5781268.237		
EL:	35.424		
Lot / Layer:	5301 / -		

## 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 (%)	26.5		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	2.02		
Field Dry Density (t/m <sup>3</sup> )	1.59		
Peak Converted Wet Density (t/m <sup>3</sup> )	1.86		
Optimum Moisture Content (%)	29.0		
Compactive Effort	Standard		
Moisture Ratio (%)	91.0		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	<b>108.5</b>		

## Comments



**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:W25DS00293**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*K. B. Patel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: Krushik Patel  
 (Senior Geotechnician)  
 Date of Issue: 12/03/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-00978		
Field Sample ID	1		
Date Tested	20/02/2025		
E:	-		
N:	-		
EL:	-		
Lot / Layer:	-		
	Retest of S25DS-00833		

## 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 (%)	28.3		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	1.81		
Field Dry Density (t/m <sup>3</sup> )	1.41		
Peak Converted Wet Density (t/m <sup>3</sup> )	1.83		
Optimum Moisture Content (%)	31.0		
Compactive Effort	Standard		
Moisture Ratio (%)	91.5		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	<b>99.0</b>		

## Comments



**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:W25DS00423**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*K. B. Patel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: Krushik Patel  
 (Senior Geotechnician)  
 Date of Issue: 24/03/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-01522		
Field Sample ID	1		
Date Tested	6/03/2025		
Time Tested	13:00		
E:	357057.889		
N:	5781252.292		
EL:	35.983		
Lot / Layer:	5301 / 7		

## 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 (%)	27.1		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	1.72		
Field Dry Density (t/m <sup>3</sup> )	1.35		
Peak Converted Wet Density (t/m <sup>3</sup> )	1.78		
Optimum Moisture Content (%)	30.5		
Compactive Effort	Standard		
Moisture Ratio (%)	89.5		
Moisture Variation (%)	3.0 dry		
Hilf Density Ratio (%)	<b>96.5</b>		

## Comments



**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:W25DS01483**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-05827	S25DS-05828				
Field Sample ID	1	2				
Date Tested	21/07/2025	21/07/2025				
Time Tested	13:45	14:00				
E:	357666.504	357041.574				
N:	5781047.991	5781069.115				
EL:	29.968	30.234				
Lot / Layer:	5338 / 1	5337 / 1				

## 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 (%)	34.6	34.6				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.87	1.83				
Field Dry Density (t/m <sup>3</sup> )	1.39	1.36				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.90	1.84				
Optimum Moisture Content (%)	31.5	32.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	110.5	109.0				
Moisture Variation (%)	3.0 wet	2.5 wet				
Hilf Density Ratio (%)	<b>98.0</b>	<b>99.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01576**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-06220				
Field Sample ID	1				
Date Tested	24/07/2025				
Time Tested	09:00				
E:	357073.247				
N:	5781078.872				
EL:	30.621				
Lot / Layer:	- / -				

## Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	4				
Field Moisture Content (%)	22.1				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.91				
Field Dry Density (t/m <sup>3</sup> )	1.56				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.95				
Optimum Moisture Content (%)	21.5				
Compactive Effort	Standard				
Moisture Ratio (%)	102.5				
Moisture Variation (%)	0.5 wet				
Hilf Density Ratio (%)	<b>97.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01715**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-06779				
Field Sample ID	1				
Date Tested	5/08/2025				
Time Tested	13:30				
E:	356958.427				
N:	5781143.377				
EL:	33.823				
Lot / Layer:	- / -				

## Field and Laboratory Data

AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	17.8				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.06				
Field Dry Density (t/m <sup>3</sup> )	1.75				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05				
Optimum Moisture Content (%)	18.0				
Compactive Effort	Standard				
Moisture Ratio (%)	97.5				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	<b>100.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01867**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07396				
Field Sample ID	1				
Date Tested	14/08/2025				
Time Tested	12:00				
E:	357066.179				
N:	5781049.500				
EL:	30.382				
Lot / Layer:	5338 / 5				

## 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 (%)	19.5				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.93				
Field Dry Density (t/m <sup>3</sup> )	1.62				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05				
Optimum Moisture Content (%)	19.5				
Compactive Effort	Standard				
Moisture Ratio (%)	101.0				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	<b>94.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01905**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07534	S25DS-07535	S25DS-07536	S25DS-07537
Field Sample ID	1	2	3	4
Date Tested	18/08/2025	18/08/2025	18/08/2025	18/08/2025
Time Tested	09:30	09:40	10:55	11:10
E:	357018.985	357024.423	357086.545	357060.820
N:	5781159.711	5781184.377	5781151.125	5781141.538
EL:	32.704	33.110	31.863	31.849
Lot / Layer:	5321 / 1	5319 / 1	5331 / 1	5332 / 1

## 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 (%)	20.6	23.7	17.9	22.3
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/m <sup>3</sup> )	2.06	1.98	1.98	1.92
Field Dry Density (t/m <sup>3</sup> )	1.71	1.60	1.67	1.57
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01	2.00	1.99	1.93
Optimum Moisture Content (%)	20.0	21.5	20.0	25.0
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	104.5	111.0	88.5	88.5
Moisture Variation (%)	1.0 wet	2.5 wet	2.0 dry	2.5 dry
Hilf Density Ratio (%)	<b>102.5</b>	<b>99.0</b>	<b>99.0</b>	<b>99.5</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01932**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07620	S25DS-07621	S25DS-07622	S25DS-07623	S25DS-07624
Field Sample ID	1	2	3	4	5
Date Tested	19/08/2025	19/08/2025	19/08/2025	19/08/2025	19/08/2025
Time Tested	11:20	11:30	14:30	14:40	14:50
E:	357055.124	357056.330	357093.976	357074.104	357084.111
N:	5781151.227	5781185.929	5781162.187	5781103.990	5781073.550
EL:	32.306	33.255	32.314	31.264	30.556
Lot / Layer:	5324 / 2	5325 / 2	5330 / 2	5334 / 4	5336 / 4

## 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 (%)	12.5	14.7	13.3	17.5	13.1
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m <sup>3</sup> )	2.11	1.95	2.09	1.96	2.06
Field Dry Density (t/m <sup>3</sup> )	1.88	1.70	1.84	1.66	1.82
Peak Converted Wet Density (t/m <sup>3</sup> )	2.14	2.06	2.14	2.02	2.17
Optimum Moisture Content (%)	13.0	15.0	13.5	17.5	13.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	97.5	98.5	100.0	100.5	101.0
Moisture Variation (%)	0.5 dry	0.0	0.0	0.0	0.0
Hilf Density Ratio (%)	<b>98.5</b>	<b>94.5</b>	<b>97.5</b>	<b>96.5</b>	<b>95.0</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01944**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07655	S25DS-07656	S25DS-07657	S25DS-07658	S25DS-07659	S25DS-07660
Field Sample ID	1	2	3	4	5	6
Date Tested	20/08/2025	20/08/2025	20/08/2025	20/08/2025	20/08/2025	20/08/2025
Time Tested	10:40	10:50	11:00	11:50	12:30	12:45
E:	357062.777	35706.059	357018.668	357066.071	357055.971	357078.382
N:	5781195.098	5781181.040	5781148.884	5781048.913	5781186.403	5781090.097
EL:	33.511	33.134	33.103	30.274	33.267	31.191
Lot / Layer:	5326 / 3	5328 / 3	5322 / 3	5338 / 5	5325 / 2	5335 / 5
				Retest of S25DS-07396	Retest of S25DS-07621	

## 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 (%)	12.8	28.9	12.2	14.4	14.9	17.0
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/m <sup>3</sup> )	1.96	1.93	2.19	2.12	2.08	1.94
Field Dry Density (t/m <sup>3</sup> )	1.74	1.49	1.95	1.85	1.81	1.66
Peak Converted Wet Density (t/m <sup>3</sup> )	2.12	1.96	2.13	1.99	2.07	1.98
Optimum Moisture Content (%)	12.5	26.5	12.5	17.5	15.0	19.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	101.0	109.5	98.0	83.5	99.0	86.0
Moisture Variation (%)	0.0	2.5 wet	0.0	3.0 dry	0.0	2.5 dry
Hilf Density Ratio (%)	<b>92.5</b>	<b>98.0</b>	<b>102.5</b>	<b>106.5</b>	<b>100.5</b>	<b>98.0</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01944**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07661				
Field Sample ID	7				
Date Tested	20/08/2025				
Time Tested	13:00				
E:	357080.856				
N:	5781113.638				
EL:	31.620				
Lot / Layer:	5333 / 5				

## 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 (%)	14.1				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.00				
Field Dry Density (t/m <sup>3</sup> )	1.75				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02				
Optimum Moisture Content (%)	14.5				
Compactive Effort	Standard				
Moisture Ratio (%)	99.0				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	<b>99.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01964**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07747	S25DS-07748	S25DS-07749	S25DS-07750	S25DS-07751	S25DS-07752
Field Sample ID	1	2	3	4	5	6
Date Tested	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025
Time Tested	09:30	09:50	10:40	10:50	11:00	11:10
E:	357018.045	357055.001	357061.750	357072.727	352095.996	357084.441
N:	5781167.101	5781141.563	5781188.030	5781192.718	5781183.462	5781123.066
EL:	33.749	32.868	33.658	33.596	33.282	31.187
Lot / Layer:	5230 / 4	5323 / 4	5326 / 3	5327 / 4	5329 / 4	5333 / 4
			Retest			

## 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 (%)	17.3	16.7	15.4	13.0	14.4	17.0
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/m <sup>3</sup> )	2.00	1.90	2.00	1.98	2.15	2.08
Field Dry Density (t/m <sup>3</sup> )	1.71	1.62	1.73	1.75	1.88	1.77
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01	2.03	1.96	1.97	2.12	2.09
Optimum Moisture Content (%)	18.0	17.0	20.0	16.0	14.5	17.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	95.0	97.5	77.5	80.5	99.0	98.5
Moisture Variation (%)	1.0 dry	0.5 dry	4.5 dry	3.0 dry	0.0	0.5 dry
Hilf Density Ratio (%)	<b>100.0</b>	<b>93.5</b>	<b>102.0</b>	<b>100.5</b>	<b>101.5</b>	<b>99.5</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01995**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07853	S25DS-07854	S25DS-07855	S25DS-07856	S25DS-07857	S25DS-07858
Field Sample ID	1	2	3	4	5	6
Date Tested	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025
Time Tested	08:53	09:05	09:17	09:28	10:50	12:15
E:	357028	357016	357023	357050	357056	356990
N:	5781195	5781199	5781150	5781172	5781188	5781242
EL:	34.274	34.453	33.471	33.843	-	34.906
Lot / Layer:	5318 / 5	5317 / 5	5322 / 5	5325 / 5	5326 / 3	5328 / 1
					Retest of S25DS-07749	

## 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 (%)	9.5	14.1	19.8	17.7	17.8	20.3
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/m <sup>3</sup> )	1.98	2.20	2.08	2.05	2.17	2.02
Field Dry Density (t/m <sup>3</sup> )	1.81	1.92	1.74	1.74	1.84	1.68
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	2.13	2.05	2.07	2.08	2.03
Optimum Moisture Content (%)	12.5	14.0	19.5	17.5	18.0	20.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	75.0	100.5	102.0	100.5	99.5	99.5
Moisture Variation (%)	3.0 dry	0.0	0.5 wet	0.0	0.0	0.0
Hilf Density Ratio (%)	<b>96.0</b>	<b>103.0</b>	<b>101.5</b>	<b>99.0</b>	<b>104.0</b>	<b>99.5</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01995**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07859	S25DS-07860			
Field Sample ID	7	8			
Date Tested	22/08/2025	22/08/2025			
Time Tested	12:40	13:50			
E:	357051	357087			
N:	5781227	5781220			
EL:	33.920	33.652			
Lot / Layer:	5314 / 1	5311 / 1			

## 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 (%)	17.0	23.3			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	2.04	2.04			
Field Dry Density (t/m <sup>3</sup> )	1.74	1.65			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.07	1.92			
Optimum Moisture Content (%)	17.5	25.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	97.5	94.0			
Moisture Variation (%)	0.5 dry	1.5 dry			
Hilf Density Ratio (%)	<b>99.0</b>	<b>106.0</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02016**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07931	S25DS-07932	S25DS-07933	S25DS-07934
Field Sample ID	1	2	3	4
Date Tested	25/08/2025	25/08/2025	25/08/2025	25/08/2025
Time Tested	07:30	07:40	13:20	13:40
E:	357029.345	357001.256	357000.578	356984.191
N:	5781263.619	5781268.400	5781256.974	5781262.723
EL:	34.696	35.415	34.444	35.534
Lot / Layer:	5307 / 1	5305 / 1	5305 / 2	5304 / 2

## 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	9
Field Moisture Content (%)	27.6	22.7	22.1	11.7
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/m <sup>3</sup> )	1.89	2.10	1.91	2.10
Field Dry Density (t/m <sup>3</sup> )	1.48	1.71	1.56	1.88
Peak Converted Wet Density (t/m <sup>3</sup> )	1.86	1.94	1.93	2.14
Optimum Moisture Content (%)	30.0	25.5	23.0	13.5
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	92.0	89.5	95.0	88.0
Moisture Variation (%)	2.5 dry	2.5 dry	1.0 dry	1.5 dry
Hilf Density Ratio (%)	<b>101.5</b>	<b>108.0</b>	<b>99.0</b>	<b>98.5</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02030**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-07973	S25DS-07974	S25DS-07975	S25DS-07976	S25DS-07977	S25DS-07978
Field Sample ID	1	2	3	4	5	6
Date Tested	26/08/2025	26/08/2025	26/08/2025	26/08/2025	26/08/2025	26/08/2025
Time Tested	09:30	10:20	13:40	13:58	14:10	14:20
E:	357062.413	357017.913	357069.536	357066.479	357100.459	357076.799
N:	5781152.163	5781168.041	5781060.920	5781179.997	5781183.806	5781224.471
EL:	33.423	33.726	30.969	34.023	33.441	33.914
Lot / Layer:	5324 / Final	5320 / 4	5337 / 7	5327 / 6	5329 / 6	5312 / 2
		Retest of S25DS-07748				

## 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 (%)	16.1	20.4	15.4	19.8	23.9	25.4
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/m <sup>3</sup> )	2.08	1.97	2.14	2.02	1.97	1.87
Field Dry Density (t/m <sup>3</sup> )	1.79	1.63	1.85	1.69	1.59	1.49
Peak Converted Wet Density (t/m <sup>3</sup> )	2.03	1.96	2.10	2.00	1.85	1.91
Optimum Moisture Content (%)	18.5	22.5	15.5	20.0	28.0	26.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	86.5	90.5	99.0	99.0	85.5	98.5
Moisture Variation (%)	2.5 dry	2.0 dry	0.0	0.0	4.0 dry	0.5 dry
Hilf Density Ratio (%)	<b>102.5</b>	<b>100.5</b>	<b>101.5</b>	<b>101.0</b>	<b>106.0</b>	<b>97.5</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02053**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08071	S25DS-08072	S25DS-08073	S25DS-08074	S25DS-08075
Field Sample ID	1	2	3	4	5
Date Tested	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
Time Tested	11:00	11:15	11:25	13:05	13:15
E:	356989.183	357014.834	357101.095	357024.485	357063.011
N:	5781189.213	5781173.335	5781184.413	5781230.256	5781220.038
EL:	35.262	34.648	33.404	34.992	34.395
Lot / Layer:	5323 / 7	5320 / 7	5329 / 6	5316 / 3	5313 / 3
			Retest of S25DS-07977		

## 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 (%)	20.1	17.0	15.6	17.4	17.1
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m <sup>3</sup> )	1.98	1.95	2.13	2.00	1.93
Field Dry Density (t/m <sup>3</sup> )	1.64	1.67	1.84	1.70	1.65
Peak Converted Wet Density (t/m <sup>3</sup> )	2.08	2.01	2.10	2.08	2.03
Optimum Moisture Content (%)	17.5	18.5	15.5	17.0	17.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	114.5	90.5	101.5	102.5	96.5
Moisture Variation (%)	2.5 wet	1.5 dry	0.0	0.5 wet	0.5 dry
Hilf Density Ratio (%)	<b>95.0</b>	<b>97.0</b>	<b>101.0</b>	<b>96.0</b>	<b>95.0</b>

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02083**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08159	S25DS-08160			
Field Sample ID	1	2			
Date Tested	1/09/2025	1/09/2025			
Time Tested	09:00	15:10			
E:	356986.113	357038.059			
N:	5781277.314	5781237.256			
EL:	36.367	35.297			
Lot / Layer:	5304 / 4	5315 / 4			

## 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 (%)	27.0	20.9			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	1.91	1.99			
Field Dry Density (t/m <sup>3</sup> )	1.50	1.64			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.99	2.05			
Optimum Moisture Content (%)	27.0	20.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	99.5	102.5			
Moisture Variation (%)	0.0	0.5 wet			
Hilf Density Ratio (%)	<b>96.0</b>	<b>97.0</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02094**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08219	S25DS-08220	S25DS-08221		
Field Sample ID	1	2	3		
Date Tested	2/09/2025	2/09/2025	2/09/2025		
Time Tested	08:10	12:15	12:30		
E:	357043.590	357076.734	357018.248		
N:	5781259.762	5781226.096	5781203.249		
EL:	35.525	35.661	35.142		
Lot / Layer:	5308 / 5	53121 / 4	5317 / 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 (%)	19.7	22.4	23.5		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	1.88	1.96	1.98		
Field Dry Density (t/m <sup>3</sup> )	1.57	1.60	1.60		
Peak Converted Wet Density (t/m <sup>3</sup> )	1.96	2.00	2.01		
Optimum Moisture Content (%)	22.5	22.0	23.0		
Compactive Effort	Standard	Standard	Standard		
Moisture Ratio (%)	87.5	101.5	103.0		
Moisture Variation (%)	2.5 dry	0.5 wet	0.5 wet		
Hilf Density Ratio (%)	<b>95.5</b>	<b>98.0</b>	<b>98.5</b>		

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02104**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08243	S25DS-08244	S25DS-08245		
Field Sample ID	1	2	3		
Date Tested	3/09/2025	3/09/2025	3/09/2025		
Time Tested	09:30	11:50	12:05		
E:	357013.913	357101.066	357049.328		
N:	5781267.041	5781219.820	5781225.552		
EL:	36.602	34.445	35.418		
Lot / Layer:	5306 / 6	5410 / 5	5414 / 5		

## 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 (%)	15.1	17.2	13.2		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	2.14	2.09	2.04		
Field Dry Density (t/m <sup>3</sup> )	1.86	1.78	1.80		
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05	2.12	2.11		
Optimum Moisture Content (%)	15.5	17.5	13.5		
Compactive Effort	Standard	Standard	Standard		
Moisture Ratio (%)	99.0	98.0	98.0		
Moisture Variation (%)	0.0	0.5 dry	0.5 dry		
Hilf Density Ratio (%)	<b>104.5</b>	<b>98.5</b>	<b>96.5</b>		

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02124**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08294	S25DS-08295			
Field Sample ID	1	2			
Date Tested	4/09/2025	4/09/2025			
Time Tested	14:10	15:10			
E:	357062.846	357079.667			
N:	5781235.794	5781189.088			
EL:	35.375	34.174			
Lot / Layer:	5313 / 6	5325 / Final			

## 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 (%)	13.4	17.9			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	1.90	2.04			
Field Dry Density (t/m <sup>3</sup> )	1.68	1.73			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.08	2.09			
Optimum Moisture Content (%)	13.5	18.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	99.0	98.5			
Moisture Variation (%)	0.0	0.5 dry			
Hilf Density Ratio (%)	<b>91.5</b>	<b>97.5</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02148**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**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: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08417				
Field Sample ID	1				
Date Tested	5/09/2025				
Time Tested	15:00				
E:	357063.174				
N:	5781224.975				
EL:	33.172				
Lot / Layer:	5313 / 6				
	Retest of S25DS-08294				

## 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 (%)	14.9				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.14				
Field Dry Density (t/m <sup>3</sup> )	1.86				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.07				
Optimum Moisture Content (%)	14.5				
Compactive Effort	Standard				
Moisture Ratio (%)	101.5				
Moisture Variation (%)	0.0				
<b>Hilf Density Ratio (%)</b>	<b>103.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02149**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08418	S25DS-08419			
Field Sample ID	1	2			
Date Tested	8/09/2025	8/09/2025			
Time Tested	01:50	12:10			
E:	356999.874	357034.973			
N:	5781279.674	5781272.513			
EL:	36.971	36.598			
Lot / Layer:	5305 / 7	5307 / 7			

## 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 (%)	14.7	14.4			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	2.09	2.04			
Field Dry Density (t/m <sup>3</sup> )	1.82	1.78			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	2.11			
Optimum Moisture Content (%)	16.0	14.0			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	91.0	101.5			
Moisture Variation (%)	1.5 dry	0.0			
Hilf Density Ratio (%)	<b>101.5</b>	<b>96.5</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02160**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08436	S25DS-08437			
Field Sample ID	1	2			
Date Tested	9/09/2025	9/09/2025			
Time Tested	10:40	13:16			
E:	357027.469	357020.930			
N:	5781202.471	5781273.128			
EL:	35.318	37.141			
Lot / Layer:	5318 / 6	5306 / 7			

## 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 (%)	15.8	11.7			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	2.04	2.10			
Field Dry Density (t/m <sup>3</sup> )	1.76	1.88			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	2.11			
Optimum Moisture Content (%)	16.5	13.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	96.0	87.5			
Moisture Variation (%)	0.5 dry	1.5 dry			
Hilf Density Ratio (%)	<b>99.0</b>	<b>100.0</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02175**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08479	S25DS-08480			
Field Sample ID	1	2			
Date Tested	10/09/2025	10/09/2025			
Time Tested	12:45	13:00			
E:	357064.021	357047.021			
N:	5781253.200	5781250.778			
EL:	36.355	36.826			
Lot / Layer:	5309 / 7	5308 / 7			

## 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 (%)	12.1	13.2			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m <sup>3</sup> )	2.07	2.03			
Field Dry Density (t/m <sup>3</sup> )	1.85	1.79			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.10	2.09			
Optimum Moisture Content (%)	13.0	13.5			
Compactive Effort	Standard	Standard			
Moisture Ratio (%)	93.0	98.0			
Moisture Variation (%)	1.0 dry	0.0			
Hilf Density Ratio (%)	<b>98.5</b>	<b>97.0</b>			

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02182**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08494				
Field Sample ID	1				
Date Tested	11/09/2025				
Time Tested	08:45				
E:	356970.853				
N:	5781274.131				
EL:	37.063				
Lot / Layer:	5303 / 2				

## 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 (%)	12.1				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.03				
Field Dry Density (t/m <sup>3</sup> )	1.81				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.10				
Optimum Moisture Content (%)	13.5				
Compactive Effort	Standard				
Moisture Ratio (%)	89.0				
Moisture Variation (%)	1.5 dry				
Hilf Density Ratio (%)	<b>96.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02226**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712

Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08656				
Field Sample ID	1				
Date Tested	15/09/2025				
Time Tested	09:00				
E:	356965.707				
N:	5781268.142				
EL:	37.793				
Layer:	5303 / Final				

## 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 (%)	12.0				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.02				
Field Dry Density (t/m <sup>3</sup> )	1.80				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.13				
Optimum Moisture Content (%)	12.5				
Compactive Effort	Standard				
Moisture Ratio (%)	98.0				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	<b>95.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02240**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



*Philip J. Semmel*

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: P. Semmel  
 (Quality Co-Ordinator)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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-08695				
Field Sample ID	1				
Date Tested	16/09/2025				
E:	357013.033				
N:	5781260.201				
EL:	37.734				
Lot / Layer:	5306 / Final				

## 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 (%)	16.0				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.03				
Field Dry Density (t/m <sup>3</sup> )	1.75				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.12				
Optimum Moisture Content (%)	16.0				
Compactive Effort	Standard				
Moisture Ratio (%)	98.5				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	<b>96.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01754**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-06925				
Field Sample ID	1				
Date Tested	7/08/2025				
Time Tested	13:00				
E:	357028.108				
N:	5781026.134				
EL:	31.076				
Lot / Layer:	- / -				

## 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 (%)	31.6				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.91				
Field Dry Density (t/m <sup>3</sup> )	1.45				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.92				
Optimum Moisture Content (%)	29.0				
Compactive Effort	Standard				
Moisture Ratio (%)	110.0				
Moisture Variation (%)	2.5 wet				
Hilf Density Ratio (%)	<b>99.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01805**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07186	S25DS-07187	S25DS-07188		
Field Sample ID	1	2	3		
Date Tested	8/08/2025	8/08/2025	8/08/2025		
Time Tested	09:15	11:30	14:30		
E:	357056.693	357067.621	357077.159		
N:	5781022.895	5781021.772	5781020.749		
EL:	30.280	30.315	30.418		
Lot / Layer:	- / 5	- / 6	- / 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 (%)	15.3	12.8	15.6		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	1.98	2.11	1.99		
Field Dry Density (t/m <sup>3</sup> )	1.71	1.87	1.72		
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	2.08	2.06		
Optimum Moisture Content (%)	17.0	13.5	16.0		
Compactive Effort	Standard	Standard	Standard		
Moisture Ratio (%)	90.5	94.5	97.5		
Moisture Variation (%)	1.5 dry	1.0 dry	0.5 dry		
Hilf Density Ratio (%)	<b>96.0</b>	<b>101.5</b>	<b>96.5</b>		

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01814**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## 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-07233	S25DS-07234				
Field Sample ID	1	2				
Date Tested	11/08/2025	11/08/2025				
Time Tested	14:00	14:15				
E:	357054.413	357078.012				
N:	5781022.403	5781020.015				
EL:	30.264	30.317				
Lot / Layer:	- / -	- / -				
	Retest of S25DS-07186	Retest of S25DS-07188				

## 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 (%)	15.2	15.6				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.08	2.05				
Field Dry Density (t/m <sup>3</sup> )	1.80	1.78				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.03	2.04				
Optimum Moisture Content (%)	17.5	18.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	88.0	87.5				
Moisture Variation (%)	2.0 dry	2.0 dry				
Hilf Density Ratio (%)	<b>102.0</b>	<b>100.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01868**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07397				
Field Sample ID	1				
Date Tested	14/08/2025				
Time Tested	15:50				
E:	357065.063				
N:	5781029.463				
EL:	31.003				
Lot / Layer:	- / -				

## 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 (%)	18.9				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.98				
Field Dry Density (t/m <sup>3</sup> )	1.66				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05				
Optimum Moisture Content (%)	19.0				
Compactive Effort	Standard				
Moisture Ratio (%)	100.5				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	<b>96.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS01943**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07654				
Field Sample ID	1				
Date Tested	20/08/2025				
Time Tested	12:00				
E:	357065.063				
N:	5781028.915				
EL:	30.964				
Lot / Layer:	- / -				
	Retest of S25DS-07397				

## 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 (%)	13.6				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.12				
Field Dry Density (t/m <sup>3</sup> )	1.86				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02				
Optimum Moisture Content (%)	16.0				
Compactive Effort	Standard				
Moisture Ratio (%)	84.0				
Moisture Variation (%)	2.5 dry				
Hilf Density Ratio (%)	<b>105.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02017**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-07939				
Field Sample ID	1				
Date Tested	25/08/2025				
Time Tested	10:40				
E:	357053.942				
N:	5780999.388				
EL:	29.788				
Lot / Layer:	- / 2				

## 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 (%)	18.3				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.91				
Field Dry Density (t/m <sup>3</sup> )	1.61				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02				
Optimum Moisture Content (%)	19.0				
Compactive Effort	Standard				
Moisture Ratio (%)	96.5				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	<b>94.5</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02095**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-08222	S25DS-08223				
Field Sample ID	1	2				
Date Tested	2/09/2025	2/09/2025				
Time Tested	15:20	15:40				
E:	357054.106	357040.557				
N:	5780998.765	5781009.997				
EL:	29.788	30.644				
Lot / Layer:	- / 2	- / 4				
	Retest of S25DS-07939					

## 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 (%)	21.4	19.6				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.03	1.98				
Field Dry Density (t/m <sup>3</sup> )	1.67	1.65				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.99	1.98				
Optimum Moisture Content (%)	21.0	20.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	101.5	97.5				
Moisture Variation (%)	0.5 wet	0.5 dry				
<b>Hilf Density Ratio (%)</b>	<b>101.5</b>	<b>100.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02105**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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: 26/02/2026  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-08246				
Field Sample ID	1				
Date Tested	3/09/2025				
Time Tested	15:00				
E:	357050.069				
N:	5780999				
EL:	30.783				
Lot / Layer:	- / 6				

## 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 (%)	20.5				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	1.88				
Field Dry Density (t/m <sup>3</sup> )	1.56				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.90				
Optimum Moisture Content (%)	23.5				
Compactive Effort	Standard				
Moisture Ratio (%)	86.5				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	<b>99.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W25DS02176**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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: 10/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98%  
**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-08481	S25DS-08482				
Field Sample ID	1	2				
Date Tested	10/09/2025	10/09/2025				
Time Tested	10:05	10:20				
E:	357065.753	357045.087				
N:	5781006.111	5781015.372				
EL:	30.889	31.555				
Lot / Layer:	- / Final	- / Final				

## 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 (%)	18.5	18.8				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.09	2.00				
Field Dry Density (t/m <sup>3</sup> )	1.76	1.68				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.96	1.91				
Optimum Moisture Content (%)	21.0	21.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	88.0	88.5				
Moisture Variation (%)	2.5 dry	2.5 dry				
Hilf Density Ratio (%)	<b>106.5</b>	<b>105.0</b>				

## Comments

Results relate only to the items tested/sampled.



**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:W26DS00428**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**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: 26/02/2026  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde  
**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	S26DS-01576				
Field Sample ID	1				
Date Tested	24/02/2026				
Time Tested	10:45				
E:	357092.781				
N:	5781128.412				
EL:	31.941				
Lot / Layer:	5332 / 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 (%)	17.9				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m <sup>3</sup> )	2.06				
Field Dry Density (t/m <sup>3</sup> )	1.74				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.92				
Optimum Moisture Content (%)	21.0				
Compactive Effort	Standard				
Moisture Ratio (%)	85.5				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	<b>107.0</b>				

## Comments

Results relate only to the items tested/sampled.

## **Appendix D    NATA Compliance reports**

---



**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: MAT:S25DS-07625/1**

**Issue No: 1**

# Material Test Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

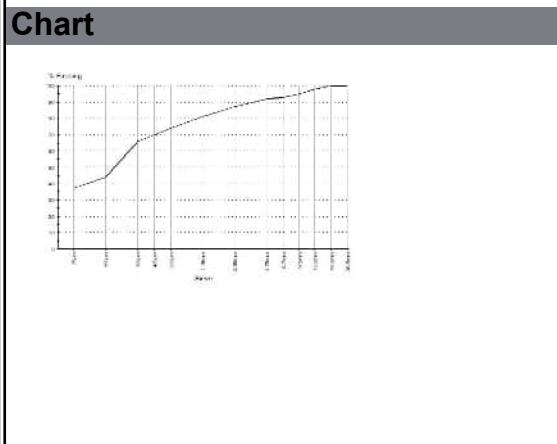
Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: M. Di Meglio  
 (Practice Lead - Technical Services)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details	
<b>Location</b>	Clyde
<b>Sample Location</b>	E: 357084.111, N: 5781073.550, EL: 30.556, Lot: 5336, Layer: 4
<b>Field Sample ID</b>	1
<b>Date Sampled</b>	19/08/2025
<b>Time Sampled</b>	14:50
<b>Source</b>	Imported
<b>Material</b>	Clay
<b>Specification</b>	AS Grading
<b>Sampling Method</b>	AS1289.1.2.1 Clause 6.4 (b)
<b>Sample ID</b>	S25DS-07625

Particle Size Distribution		
<b>Method:</b>	AS 1289.3.6.1	
<b>Drying By:</b>	Oven	
<b>Date Tested:</b>	22/08/2025	
<b>Note:</b>	Sample Washed	
<b>Sieve Size</b>	<b>% Passing</b>	<b>Limits</b>
26.5mm	100	
19.0mm	100	
13.2mm	98	
9.5mm	95	
6.7mm	93	
4.75mm	92	
2.36mm	87	
1.18mm	81	
600µm	74	
425µm	70	
300µm	66	
150µm	44	
75µm	37	

Other Test Results			
Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	14.3	
Date Tested		21/08/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	6.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		Yes	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	40	
Plastic Limit (%)	AS 1289.3.2.1	12	
Plasticity Index (%)	AS 1289.3.3.1	28	
Date Tested		28/08/2025	



**Comments**  
 Results relate only to the items tested/sampled.



**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: MAT:S25DS-08251/1**

**Issue No: 1**

# Material Test Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53  
**Project No.:** 1091936.053  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

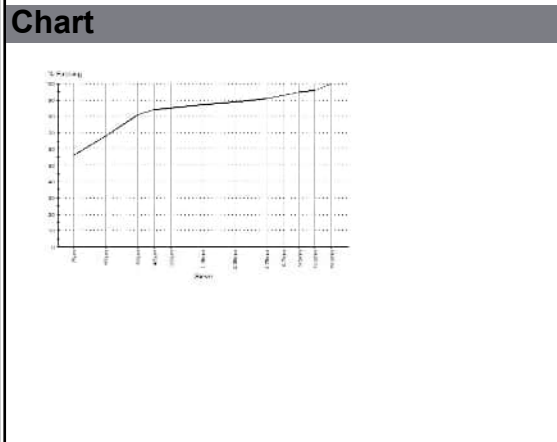
Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation Number: 12719  
 Site Number: 12712  
 Approved Signatory: M. Di Meglio  
 (Practice Lead - Technical Services)  
 Date of Issue: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details	
<b>Location</b>	Clyde
<b>Sample Location</b>	E: 357013.913, N: 5781267.041, EL: 36.602, Lot: 5306, Layer: 6
<b>Field Sample ID</b>	1
<b>Date Sampled</b>	3/09/2025
<b>Time Sampled</b>	09:30
<b>Source</b>	Imported
<b>Material</b>	Clay
<b>Specification</b>	AS Grading
<b>Sampling Method</b>	AS1289.1.2.1 Clause 6.4 (b)
<b>Sample ID</b>	S25DS-08251

Particle Size Distribution		
<b>Method:</b>	AS 1289.3.6.1	
<b>Drying By:</b>	Oven	
<b>Date Tested:</b>	11/09/2025	
<b>Note:</b>	Sample Washed	
<b>Sieve Size</b>	<b>% Passing</b>	<b>Limits</b>
19.0mm	100	
13.2mm	96	
9.5mm	95	
6.7mm	93	
4.75mm	91	
2.36mm	89	
1.18mm	87	
600µm	85	
425µm	84	
300µm	81	
150µm	68	
75µm	56	

Other Test Results			
Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	14.6	
Date Tested		5/09/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	9.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		Yes	
Liquid Limit (%)	AS 1289.3.1.2	35	
Plastic Limit (%)	AS 1289.3.2.1	13	
Plasticity Index (%)	AS 1289.3.3.1	22	
Date Tested		10/09/2025	



**Comments**  
 Results relate only to the items tested/sampled.



**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: MAT:S25DS-08224/1**

**Issue No: 1**

# Material Test Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Green Estate, Stage 53 Superlot  
**Project No.:** 1091936.053SUP  
**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: 9/10/2025  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Sample Location** E: 357040.557, N: 5781009.997, EL: 30.644, Layer: 4  
**Field Sample ID** 1  
**Date Sampled** 2/09/2025  
**Time Sampled** 15:40  
**Source** Imported  
**Material** Clay  
**Specification** AS Grading  
**Sampling Method** AS1289.1.2.1 Clause 6.4 (b)  
**Sample ID** S25DS-08224

## Particle Size Distribution

**Method:** AS 1289.3.6.1  
**Drying By:** Oven  
**Date Tested:** 11/09/2025

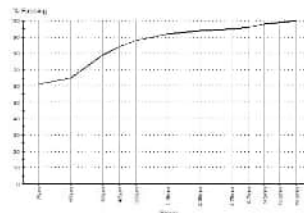
**Note:** Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	99	
9.5mm	98	
6.7mm	96	
4.75mm	95	
2.36mm	94	
1.18mm	92	
600µm	88	
425µm	84	
300µm	79	
150µm	65	
75µm	61	

## Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	21.9	
Date Tested		5/09/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	12.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		Yes	
Liquid Limit (%)	AS 1289.3.1.2	59	
Plastic Limit (%)	AS 1289.3.2.1	18	
Plasticity Index (%)	AS 1289.3.3.1	41	
Date Tested		9/09/2025	

## Chart



## Comments

Results relate only to the items tested/sampled.

# Appendix E      Fill Certificate

---



## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

**PROJECT** : Meridian Green Estate  
Stage 53

**REF:** 1091936.053.R1.v1

- Lots 5303 to 5338 and
- The Superlot

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

**DATE:** 27 February 2026

### 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

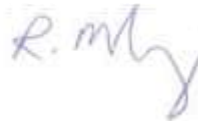
This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural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

This report is based on the conditions present and factors affecting the soil at the time of inspection (19 February 2025 and was completed 24 February 2026). 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



Per Robert Mckenzie

**Michael DiMeglio**  
Project Director

© Chadwick Geotechnics Pty Ltd.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise other than in accordance with the limitations and for the purpose provided for above.

[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)

