CHADWICK GEOTECHNICS

# REPORT

## Level 1 Geotechnical Inspection and Testing Authority Services

### Meridian Green Estate, Clyde North
### Stage 55, Lot's 5501 and 5504 to Lot 5534

**Prepared for:**

**Greenridge Properties Pty Ltd**

**25/03/2026**

Our Ref: 1091936.55.v1

25 Metcalf Street, Dandenong South, Vic 3175, Melbourne, Australia
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## Document control

| Title: Level 1 Geotechnical Inspection and Testing Authority Services | | | | | |
|---|---|---|---|---|---|
| **Date** | **Version** | **Description** | **Prepared by:** | **Reviewed by:** | **Authorised by:** |
| 25 March 2026 | 1 | Final | STPA/RHB | RWMC | MCDM |
| | | | | | |

**Distribution:**

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

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# 1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics), was engaged by Greenridge Properties Pty Ltd, to provide Level 1 Geotechnical Inspection and Testing Authority (GITA), services for the earthworks conducted within Stage 55 of the Meridian Green Estate in Clyde North. This report relates to the Stage 55 works only, the testing was undertaken between 18 August 2025 and the 31 October 2025.

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

# 2 Project details

## 2.1 Location

Stage 55 is located East of Pound Road and the site is generally located around Miscanthus Street in Clyde North.

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 October 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 |
|---|---|
| **August 2025** | 18, 20. 21, 28 |
| **September 2025** | 3, 4, 8, 9, 10, 11, 12, 15, 16, 17, 18, 29, 30 |
| **October 2025** | 1, 3, 7, 9, 14, 24, 28, 29, 30, 31 |

## 2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within the Meridian Green Estate Stage 55, as shown on the Site Plan in Appendix A, with reference to Section 2.5 (Excluded Areas) of this report.

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

- The residential lots filled include Lot's 5501 & 5504 to Lot 5534

## 2.5 Excluded Areas

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

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

# 3 Specifications

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

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

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

# 4 Inspection and Testing

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

## 4.1 Earthworks

The earthworks for the project comprised of the following phases:

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

## 4.2 Fill material

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

A bulk sample was sampled on the 18 September 2025 and 3 October 2025 during the Stage 55 earthworks, the sample was taken for geotechnical compliance testing. The fill material used during filling works on both stages was sourced from the same source.

The material compliance test result is tabulated in Table 4.1 below. 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 | 19 mm | 4.75 mm | 1.18 mm | 425 µm | 0.75 µm | | | | |
| S25DS-08659/1 | 100 | 100 | 97 | 95 | 92 | 43 | 26 | 13 | 13 | Import |
| S25DS-09216/1 | 100 | 100 | 98 | 90 | 79 | 49 | 61 | 17 | 44 | On site |

The laboratory test result indicates the fill material is a sandy 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 CLAY Mottled Orange Brown*

## 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


*Photo 3: Subgrade assessment with Dump truck*

*Photo 4: Subgrade assessment with pad foot*

## 4.4 Engineered Fill Construction

All fill material was brought 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 at the Meridian Estate.

**Table 4.2: Earthworks plant on site**

| Equipment type | Model |
|---|---|
| **Dozer** | **CAT D6 Dozer** |
| **Pad foot roller** | **CAT 15 Tonne CP56B** |
| **Water cart** | **1 CAT** |
| **Smooth Drum Roller** | **1** |
| **Excavator** | **1** |
| **Moxy Trucks** | **2** |

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

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

*Photograph 5: Grader trimming surface*


*Photograph 6: Smooth drum roller*

*Photograph 7: Water cart conditioning clay*

*Photograph 8: D6 Dozer spreading fill*

## 4.5 Density and Moisture testing

Field density and moisture content testing was undertaken progressively during construction on the compacted fill using a calibrated portable density and moisture gauge in accordance with

AS1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS1289.5.7.1. Test locations were recorded using a handheld GPS unit. A site plan showing the field density test locations is provided in Appendix A.

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

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

Fifty-Seven (57) tests were performed during the filling process. Five (5) 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

*Photo 9: Field density/moisture test*

*Photo 10: Field density/moisture test*

# 5 Conclusion

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

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

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

# 6 Applicability

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

This report is based on the nature of the project and the prevailing conditions between 18th August 2025 and 31st October 2025. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

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

Chadwick Geotechnics Pty Ltd

Report prepared by:

.....

Robert Barden

Project Manager

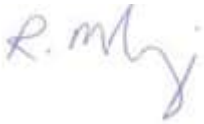
Authorised for Chadwick Geotechnics Pty Ltd by:

.....

Michael DiMeglio

Project Director

Report reviewed by:



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Robert McKenzie

Principal Geotechnical Engineer

RPEV Number: PE0005222

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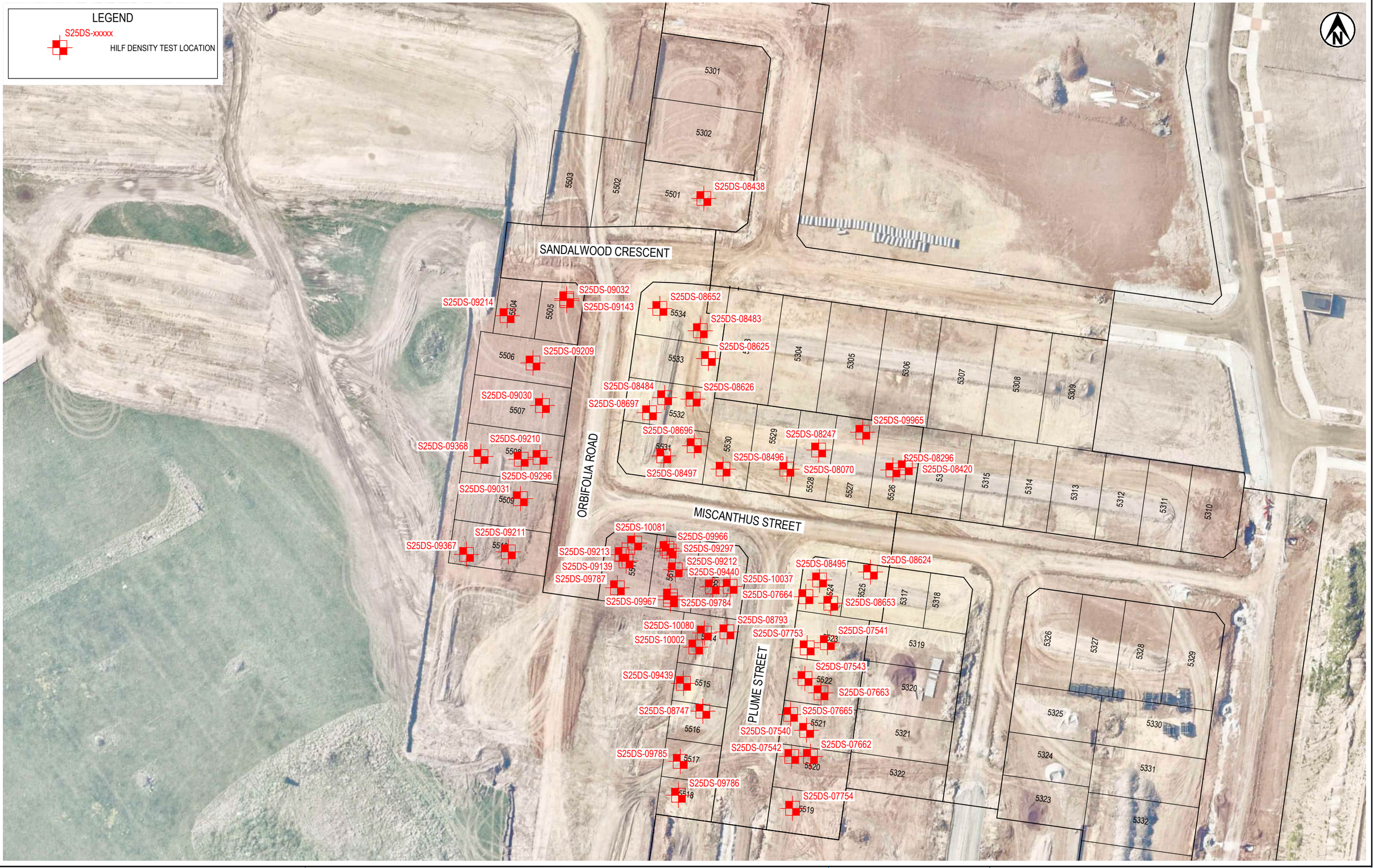
# Appendix A Hilf Density Test location Plan

T:\Dandenong\Geo Projects\1091936\1091936.055 Stage 55 Meridian Greens Estate\CAD\FIG\1091936.055-F01.dwg 2026-Mar-24 1:07:46 PM Plotted By: KATHRYN JACKSON

LEGEND

S25DS-xxxxx HILF DENSITY TEST LOCATION

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NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 04/10/2025.

A3 SCALE 1:1000
0 5 10 15 20 30 40 50 (m)

ORIGINAL IN COLOUR

| | | | |
|---|---|---|---|
| PROJECT No. | 1091936.056 | | |
| DESIGNED | STPA | Nov.25 | |
| DRAWN | KMJA | Nov.25 | |
| CHECKED | | | |
| | | APPROVED | DATE |

CLIENT GREENRIDGE PROPERTIES PTY LTD
PROJECT MERIDIAN GREEN ESTATE - STAGE 55
TITLE LEVEL ONE HILF DENSITY TESTING
HILF DENSITY TEST LOCATION PLAN

UNDER REVISION 1

SCALE (A3) 1:1000 FIG No. 1091936.055-F01 REV 1

# Appendix B Hilf Density Test Summary

CHADWICK GEOTECHNICS

# Meridian Green, 1091936.055 Stage 55

## HILF Density Testing - Field Summary

Chadwick Geotechnics
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| Report No | Sample No | Date | Test Number | Lot No | Easting | Northing | Layer/RL | Density Ratio (≥95 %) | Moisture Variation | Pass / Fail | Comments (Retest No) Compliance test taken ect |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HDR:W25DS01907 | S25DS-07540 | 18/08/2025 | 1 | 5521 / 1 | 356987 | 5781161 | 33.375 | 96.5 | 0.5 wet | Pass | |
| HDR:W25DS01907 | S25DS-07541 | 18/08/2025 | 2 | 5523 / 1 | 356993 | 5781186 | 33.736 | 95.5 | 0 wet | Pass | |
| HDR:W25DS01907 | S25DS-07542 | 18/08/2025 | 3 | 5520 / 2 | 356982 | 5781153 | 33.596 | 97 | 0 wet | Pass | |
| HDR:W25DS01907 | S25DS-07543 | 18/08/2025 | 4 | 5522 / 2 | 356986 | 5781176 | 33.994 | 98.5 | 0 wet | Pass | |
| HDR:W25DS01945 | S25DS-07662 | 20/08/2025 | 1 | - / 3 | 356988 | 5781153 | 33.755 | 104 | 0.5 dry | Pass | |
| HDR:W25DS01945 | S25DS-07663 | 20/08/2025 | 2 | - / 3 | 356991 | 5781171 | 33.999 | 100.5 | 0.5 wet | Pass | |
| HDR:W25DS01945 | S25DS-07664 | 20/08/2025 | 3 | 5524 / 4 | 356986 | 5781199 | 34.742 | 96.5 | 0.5 dry | Pass | |
| HDR:W25DS01945 | S25DS-07665 | 20/08/2025 | 4 | 5521 / - | 356982 | 5781165 | 34.508 | 98 | 0 wet | Pass | |
| HDR:W25DS01965 | S25DS-07753 | 21/08/2025 | 1 | 5523 / 5 | 356987 | 5781184 | 34.912 | 98.5 | 0 dry | Pass | |
| HDR:W25DS01965 | S25DS-07754 | 21/08/2025 | 2 | 5519 / 5 | 356983 | 5781138 | 33.991 | 98.5 | 0 dry | Pass | |
| HDR:W25DS02052 | S25DS-08070 | 28/08/2025 | 1 | 5529 / 3 | 356981 | 5781236 | 35.423 | 99 | 1.5 dry | Pass | |
| HDR:W25DS02106 | S25DS-08247 | 3/09/2025 | 2 | 5528 / 6 | 356990 | 5781241 | 36.548 | 99 | 0.5 dry | Pass | |
| HDR:W25DS02125 | S25DS-08296 | 4/09/2025 | 1 | 5526 / 6 | 357011 | 5781235 | 36.349 | 93.5 | 0.5 wet | FAIL | See Retest S25DS-08420 |
| HDR:W25DS02150 | S25DS-08420 | 8/09/2025 | 1 | 5526 / 6 | 357015 | 5781236 | 36.347 | 101.5 | 1 dry | Pass | Retest of S25DS-08296 |
| HDR:W25DS02161 | S25DS-08438 | 9/09/2025 | 1 | 5501 / 1 | 356957 | 5781313 | 38.037 | 96.5 | 0.5 dry | Pass | |
| HDR:W25DS02177 | S25DS-08483 | 10/09/2025 | 1 | 5534 / 1 | 356956 | 5781275 | 36.559 | 98 | 0 wet | Pass | |
| HDR:W25DS02177 | S25DS-08484 | 10/09/2025 | 2 | 5532 / 1 | 356946 | 5781256 | 36.004 | 99.5 | 0 dry | Pass | |
| HDR:W25DS02183 | S25DS-08495 | 11/09/2025 | 1 | 5524 / 8 | 356990 | 5781204 | 32.976 | 96 | 0 dry | Pass | |
| HDR:W25DS02183 | S25DS-08496 | 11/09/2025 | 2 | 5530 / 1 | 356963 | 5781236 | 35.806 | 98.5 | 0 dry | Pass | |
| HDR:W25DS02183 | S25DS-08497 | 11/09/2025 | 3 | 5531 / 1 | 356946 | 5781239 | 35.906 | 97 | 0 dry | Pass | |
| HDR:W25DS02214 | S25DS-08624 | 12/09/2025 | 1 | 5525 / - | 357005 | 5781206 | 36.083 | 96 | 0.5 dry | Pass | |
| HDR:W25DS02214 | S25DS-08625 | 12/09/2025 | 2 | 5533 / 3 | 356959 | 5781267 | 37.18 | 96 | 2 dry | Pass | |
| HDR:W25DS02214 | S25DS-08626 | 12/09/2025 | 3 | 5532 / 2 | 356954 | 5781256 | 36.848 | 97.5 | 0 dry | Pass | |

CHADWICK GEOTECHNICS

# Meridian Green, 1091936.055 Stage 55

## HILF Density Testing - Field Summary

Chadwick Geotechnics
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| Report No | Sample No | Date | Test Number | Lot No | Easting | Northing | Layer/RL | Density Ratio (≥95 %) | Moisture Variation | Pass / Fail | Comments (Retest No) Compliance test taken ect |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HDR:W25DS02223 | S25DS-08652 | 15/09/2025 | 1 | 5534 / 4 | 356945 | 5781282 | 37.401 | 99.5 | 0 wet | Pass | |
| HDR:W25DS02223 | S25DS-08653 | 15/09/2025 | 2 | 5524 / Final | 356994 | 5781197 | 36.483 | 103.5 | 2 dry | Pass | |
| HDR:W25DS02241 | S25DS-08696 | 16/09/2025 | 1 | 5531 / 3 | 356954 | 5781242 | 36.632 | 95.5 | 0.5 dry | Pass | |
| HDR:W25DS02241 | S25DS-08697 | 16/09/2025 | 2 | 5532 / Final | 356942 | 5781252 | 36.939 | 98 | 2.5 dry | Pass | |
| HDR:W25DS02252 | S25DS-08747 | 17/09/2025 | 1 | 5516 / 2 | 356958 | 5781169 | 34.594 | 100.5 | 1 wet | Pass | |
| HDR:W25DS02259 | S25DS-08793 | 18/09/2025 | 1 | 5514 / - | 356964 | 5781189 | 35.236 | 97.5 | 1 dry | Pass | |
| HDR:W25DS02320 | S25DS-09030 | 29/09/2025 | 1 | 5507 / 1 | 356911 | 5781254 | 36.742 | 105.5 | 3 dry | Pass | |
| HDR:W25DS02320 | S25DS-09031 | 29/09/2025 | 2 | 5509 / 1 | 356905 | 5781227 | 36.302 | 102.5 | 3 dry | Pass | |
| HDR:W25DS02320 | S25DS-09032 | 29/09/2025 | 3 | 5505 / 1 | 356918 | 5781284 | 37.551 | 99.5 | 4.5 dry | Fail | See Retest S25DS-09143 |
| HDR:W25DS02330 | S25DS-09139 | 30/09/2025 | 1 | 5511 / - | 356935 | 5781209 | 35.465 | 99.5 | 2.5 dry | Pass | |
| HDR:W25DS02332 | S25DS-09143 | 1/10/2025 | 1 | 5505 / 1 | 356918 | 5781284 | 37.551 | 96.5 | 2 dry | Pass | Retest of S25DS-09032 |
| HDR:W25DS02347 | S25DS-09209 | 3/10/2025 | 1 | 5506 / 2 | 356908 | 5781266 | 37.23 | 97 | 0 dry | Pass | |
| HDR:W25DS02347 | S25DS-09210 | 3/10/2025 | 2 | 5508 / 2 | 356905 | 5781238 | 36.718 | 94 | 2 dry | Fail | See Retest S25DS-09296 |
| HDR:W25DS02347 | S25DS-09211 | 3/10/2025 | 3 | 5510 / 1 | 356901 | 5781212 | 36.15 | 96 | 2 dry | Pass | |
| HDR:W25DS02347 | S25DS-09212 | 3/10/2025 | 4 | 5512 / 2 | 356949 | 5781207 | 35.361 | 92.5 | 2 dry | Fail | See Retest S25DS-09297 |
| HDR:W25DS02347 | S25DS-09213 | 3/10/2025 | 5 | 5511 / 2 | 356934 | 5781211 | 35.562 | 97 | 2 dry | Pass | |
| HDR:W25DS02347 | S25DS-09214 | 3/10/2025 | 6 | m | 356901 | 5781280 | 37.663 | 101 | 0.5 dry | Pass | |

CHADWICK GEOTECHNICS

# Meridian Green, 1091936.055 Stage 55

## HILF Density Testing - Field Summary

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| Report No | Sample No | Date | Test Number | Lot No | Easting | Northing | Layer/RL | Density Ratio (≥95 %) | Moisture Variation | Pass / Fail | Comments (Retest No) Compliance test taken ect |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HDR:W25DS02364 | S25DS-09296 | 7/10/2025 | 1 | 5508 / 2 | 356910 | 5781239 | 36.791 | 103 | 0.5 dry | Pass | Retest of S25DS-09210 |
| HDR:W25DS02364 | S25DS-09297 | 7/10/2025 | 2 | 5512 / - | 356947 | 5781212 | 35.507 | 99.5 | 0.5 dry | Pass | Retest of S25DS-09212 |
| HDR:W25DS02382 | S25DS-09367 | 9/10/2025 | 1 | 5510 / Final | 356889 | 5781211 | 36.39 | 98.5 | 2.5 dry | Pass | |
| HDR:W25DS02382 | S25DS-09368 | 9/10/2025 | 2 | 5508 / Final | 356893 | 5781239 | 36.908 | 106 | 2.5 dry | Pass | |
| HDR:W25DS02397 | S25DS-09439 | 14/10/2025 | 1 | 5515 / 1 | 356951 | 5781174 | 34.502 | 98 | 0.5 dry | Pass | |
| HDR:W25DS02397 | S25DS-09440 | 14/10/2025 | 2 | 5513 / 3 | 356960 | 5781202 | 35.381 | 99 | 0.5 dry | Pass | |
| HDR:W25DS02457 | S25DS-09784 | 24/10/2025 | 1 | 5512 / 5 | 356948 | 5781199 | 35.782 | 94 | 0.5 dry | Fail | See Retest S25DS-09967 |
| HDR:W25DS02457 | S25DS-09785 | 24/10/2025 | 2 | 5517 / Final | 356950 | 5781152 | 34.635 | 99 | 2.5 dry | Pass | |
| HDR:W25DS02457 | S25DS-09786 | 24/10/2025 | 3 | 5518 / Final | 356950 | 5781142 | 34.464 | 101.5 | 0 dry | Pass | |
| HDR:W25DS02457 | S25DS-09787 | 24/10/2025 | 4 | 5511 / 6 | 356932 | 5781202 | 36.093 | 99 | 0.5 dry | Pass | |
| HDR:W25DS02478 | S25DS-09965 | 28/10/2025 | 1 | 5527 / Final | 357009 | 5781246 | | 96 | 0 dry | Pass | |
| HDR:W25DS02478 | S25DS-09966 | 28/10/2025 | 2 | 5512 / 7 | 356947 | 5781213 | 36.143 | 97 | 0 wet | Pass | |
| HDR:W25DS02478 | S25DS-09967 | 28/10/2025 | 3 | 5512 / 5 | 356948 | 5781198 | 35.742 | 97.5 | 0 wet | Pass | Retest of S25DS-09784 |
| HDR:W25DS02486 | S25DS-10002 | 29/10/2025 | 1 | 5514 / 4 | 356955 | 5781185 | | 99.5 | 1 dry | Pass | |
| HDR:W25DS02499 | S25DS-10037 | 30/10/2025 | 1 | 5513 / 8 | 356965 | 5781202 | 36.37 | 102.5 | 2.5 dry | Pass | |
| HDR:W25DS02514 | S25DS-10080 | 31/10/2025 | 1 | 5514 / Final | 356957 | 5781189 | 35.659 | 101 | 2.5 dry | Pass | |
| HDR:W25DS02514 | S25DS-10081 | 31/10/2025 | 2 | 5511 / Final | 356937 | 5781214 | 36.667 | 99 | 2.5 dry | Pass | |
| | | | | | | | | | | | |

# Appendix C NATA endorsed laboratory reports

**Dandenong South**
**ACN 143 009 330**
25 Metcalf Street
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**Report No: HDR:W25DS01907**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**Order No.:** **CG Request No.:**
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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



## Sample Details

| | |
|---|---|
| **Location:** | 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-07540 | S25DS-07541 | S25DS-07542 | S25DS-07543 | | |
|---|---|---|---|---|---|---|
| **Field Sample ID** | 1 | 2 | 3 | 4 | | |
| **Date Tested** | 18/08/2025 | 18/08/2025 | 18/08/2025 | 18/08/2025 | | |
| **Time Tested** | 09:15 | 09:25 | 15:40 | 15:50 | | |
| **E:** | 356986.686 | 356992.640 | 356982.386 | 356986.223 | | |
| **N:** | 5781160.713 | 5781185.854 | 5781153.242 | 5781175.578 | | |
| **EL:** | 33.375 | 33.736 | 33.596 | 33.994 | | |
| **Lot / Layer:** | 5521 / 1 | 5523 / 1 | 5520 / 2 | 5522 / 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 | 0 | | |
| **Field Moisture Content (%)** | 17.3 | 14.8 | 10.5 | 20.0 | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | |
| **Field Wet Density (t/m³)** | 1.98 | 2.01 | 1.99 | 2.01 | | |
| **Field Dry Density (t/m³)** | 1.69 | 1.75 | 1.80 | 1.67 | | |
| **Peak Converted Wet Density (t/m³)** | 2.06 | 2.11 | 2.05 | 2.03 | | |
| **Optimum Moisture Content (%)** | 17.0 | 14.5 | 10.5 | 20.0 | | |
| **Compactive Effort** | Standard | Standard | Standard | Standard | | |
| **Moisture Ratio (%)** | 101.5 | 101.0 | 101.5 | 101.0 | | |
| **Moisture Variation (%)** | 0.5 wet | 0.0 | 0.0 | 0.0 | | |
| **Hilf Density Ratio (%)** | **96.5** | **95.5** | **97.0** | **98.5** | | |

## Comments

Results relate only to the items tested/sampled.

**Dandenong South**
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**Report No: HDR:W25DS01945**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**Order No.:** **CG Request No.:**
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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



## Sample Details

| | |
|---|---|
| **Location:** | 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-07662 | S25DS-07663 | S25DS-07664 | S25DS-07665 | | |
|---|---|---|---|---|---|---|
| **Field Sample ID** | 1 | 2 | 3 | 4 | | |
| **Date Tested** | 20/08/2025 | 20/08/2025 | 20/08/2025 | 20/08/2025 | | |
| **Time Tested** | 09:00 | 09:15 | 11:00 | 11:15 | | |
| **E:** | 356987.797 | 356990.823 | 356986.471 | 35682.090 | | |
| **N:** | 5781153.252 | 5781171.498 | 5781199.051 | 5781165.300 | | |
| **EL:** | 33.755 | 33.999 | 34.742 | 34.508 | | |
| **Lot / Layer:** | - / 3 | - / 3 | 5524 / 4 | 5521 / - | | |
| **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 (%)** | 16.4 | 26.7 | 8.3 | 16.4 | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | |
| **Field Wet Density (t/m³)** | 2.12 | 1.95 | 2.05 | 2.03 | | |
| **Field Dry Density (t/m³)** | 1.82 | 1.54 | 1.89 | 1.74 | | |
| **Peak Converted Wet Density (t/m³)** | 2.04 | 1.93 | 2.12 | 2.07 | | |
| **Optimum Moisture Content (%)** | 17.0 | 26.5 | 9.0 | 16.0 | | |
| **Compactive Effort** | Standard | Standard | Standard | Standard | | |
| **Moisture Ratio (%)** | 98.0 | 101.0 | 93.5 | 101.0 | | |
| **Moisture Variation (%)** | 0.5 dry | 0.5 wet | 0.5 dry | 0.0 | | |
| **Hilf Density Ratio (%)** | **104.0** | **100.5** | **96.5** | **98.0** | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS01965**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**Order No.:** **CG Request No.:**
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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



## Sample Details

| | |
|---|---|
| **Location:** | 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-07753 | S25DS-07754 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 21/08/2025 | 21/08/2025 | | | | |
| **Time Tested** | 15:30 | 15:40 | | | | |
| **E:** | 356986.854 | 356982.656 | | | | |
| **N:** | 5781184.371 | 5781138.354 | | | | |
| **EL:** | 34.912 | 33.991 | | | | |
| **Lot / Layer:** | 5523 / 5 | 5519 / 5 | | | | |

## Field and Laboratory Data

| | | | | | | |
|---|---|---|---|---|---|---|
| **Depth of Test (mm)** | 175 | 175 | | | | |
| **Depth of Layer (mm)** | 200 | 200 | | | | |
| **AS Sieve Size (mm)** | 19.0 | 19.0 | | | | |
| **Oversize Wet (%)** | 0 | 0 | | | | |
| **Field Moisture Content (%)** | 12.8 | 21.8 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.12 | 1.97 | | | | |
| **Field Dry Density (t/m³)** | 1.88 | 1.61 | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.15 | 1.99 | | | | |
| **Optimum Moisture Content (%)** | 13.0 | 22.0 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 99.0 | 99.0 | | | | |
| **Moisture Variation (%)** | 0.0 | 0.0 | | | | |
| **Hilf Density Ratio (%)** | **98.5** | **98.5** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02052**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**Order No.:** **CG Request No.:**
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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



## Sample Details

| | |
|---|---|
| **Location:** | 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-08070 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 28/08/2025 | | | | | |
| **Time Tested** | 13:00 | | | | | |
| **E:** | 356981.025 | | | | | |
| **N:** | 5781235.617 | | | | | |
| **EL:** | 35.423 | | | | | |
| **Lot / Layer:** | 5529 / 3 | | | | | |

## 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 (%)** | 15.0 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.00 | | | | | |
| **Field Dry Density (t/m³)** | 1.74 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.02 | | | | | |
| **Optimum Moisture Content (%)** | 16.5 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 91.0 | | | | | |
| **Moisture Variation (%)** | 1.5 dry | | | | | |
| **Hilf Density Ratio (%)** | **99.0** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02106**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08247 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 3/09/2025 | | | | | |
| **Time Tested** | 15:20 | | | | | |
| **E:** | 356990.121 | | | | | |
| **N:** | 5781241.095 | | | | | |
| **EL:** | 36.548 | | | | | |
| **Lot / Layer:** | 5528 / 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 (%)** | 18.7 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.02 | | | | | |
| **Field Dry Density (t/m³)** | 1.70 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.05 | | | | | |
| **Optimum Moisture Content (%)** | 19.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 98.0 | | | | | |
| **Moisture Variation (%)** | 0.5 dry | | | | | |
| **Hilf Density Ratio (%)** | **99.0** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02125**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08296 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 4/09/2025 | | | | | |
| **Time Tested** | 14:00 | | | | | |
| **E:** | 357011.452 | | | | | |
| **N:** | 5781235.386 | | | | | |
| **EL:** | 36.349 | | | | | |
| **Lot / Layer:** | 5526 / 6 | | | | | |

## Field and Laboratory Data

| | | | | | | |
|---|---|---|---|---|---|---|
| **Depth of Test (mm)** | 175 | | | | | |
| **Depth of Layer (mm)** | 200 | | | | | |
| **Field Moisture Content (%)** | 15.5 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 1.99 | | | | | |
| **Field Dry Density (t/m³)** | 1.72 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.13 | | | | | |
| **Optimum Moisture Content (%)** | 15.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 103.5 | | | | | |
| **Moisture Variation (%)** | 0.5 wet | | | | | |
| **Hilf Density Ratio (%)** | **93.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

**Dandenong South**
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**Report No: HDR:W25DS02150**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08420 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 8/09/2025 | | | | | |
| **Time Tested** | 10:30 | | | | | |
| **E:** | 357010915 | | | | | |
| **N:** | 5781236.014 | | | | | |
| **EL:** | 36.347 | | | | | |
| **Lot / Layer:** | 5526 / 6 | | | | | |
| | Retest of S25DS-08296 | | | | | |

## 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 (%)** | 16.1 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.09 | | | | | |
| **Field Dry Density (t/m³)** | 1.80 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.06 | | | | | |
| **Optimum Moisture Content (%)** | 17.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 95.5 | | | | | |
| **Moisture Variation (%)** | 1.0 dry | | | | | |
| **Hilf Density Ratio (%)** | **101.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Dandenong South**
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**Report No: HDR:W25DS02161**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08438 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 9/09/2025 | | | | | |
| **Time Tested** | 11:00 | | | | | |
| **E:** | 356957.214 | | | | | |
| **N:** | 5781313.219 | | | | | |
| **EL:** | 38.037 | | | | | |
| **Lot / Layer:** | 5501 / 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 (%)** | 14.1 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.02 | | | | | |
| **Field Dry Density (t/m³)** | 1.77 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.10 | | | | | |
| **Optimum Moisture Content (%)** | 14.5 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 98.0 | | | | | |
| **Moisture Variation (%)** | 0.5 dry | | | | | |
| **Hilf Density Ratio (%)** | **96.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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**Dandenong South**
**ACN 143 009 330**
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**Report No: HDR:W25DS02177**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08483 | S25DS-08484 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 10/09/2025 | 10/09/2025 | | | | |
| **Time Tested** | 01:00 | 10:10 | | | | |
| **E:** | 356956.186 | 356945.975 | | | | |
| **N:** | 5781275.322 | 5781256.118 | | | | |
| **EL:** | 36.559 | 36.004 | | | | |
| **Lot / Layer:** | 5534 / 1 | 5532 / 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 (%)** | 14.6 | 17.0 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.06 | 2.05 | | | | |
| **Field Dry Density (t/m³)** | 1.80 | 1.75 | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.11 | 2.06 | | | | |
| **Optimum Moisture Content (%)** | 14.5 | 17.0 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 100.0 | 99.5 | | | | |
| **Moisture Variation (%)** | 0.0 | 0.0 | | | | |
| **Hilf Density Ratio (%)** | **98.0** | **99.5** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02183**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08495 | S25DS-08496 | S25DS-08497 | | | |
| **Field Sample ID** | 1 | 2 | 3 | | | |
| **Date Tested** | 11/09/2025 | 11/09/2025 | 11/09/2025 | | | |
| **Time Tested** | 13:44 | 15:30 | 15:45 | | | |
| **E:** | 356990.409 | 356962.716 | 356945.692 | | | |
| **N:** | 5781203.837 | 5781235.637 | 5781239.403 | | | |
| **EL:** | 32.976 | 35.806 | 35.906 | | | |
| **Lot / Layer:** | 5524 / 8 | 5530 / 1 | 5531 / 1 | | | |

## 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 (%)** | 12.1 | 11.6 | 11.3 | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | | |
| **Field Wet Density (t/m³)** | 2.06 | 2.10 | 2.00 | | | |
| **Field Dry Density (t/m³)** | 1.84 | 1.88 | 1.79 | | | |
| **Peak Converted Wet Density (t/m³)** | 2.14 | 2.13 | 2.06 | | | |
| **Optimum Moisture Content (%)** | 12.5 | 11.5 | 11.5 | | | |
| **Compactive Effort** | Standard | Standard | Standard | | | |
| **Moisture Ratio (%)** | 98.5 | 99.0 | 99.0 | | | |
| **Moisture Variation (%)** | 0.0 | 0.0 | 0.0 | | | |
| **Hilf Density Ratio (%)** | **96.0** | **98.5** | **97.0** | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02214**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08624 | S25DS-08625 | S25DS-08626 | | | |
|---|---|---|---|---|---|---|
| **Field Sample ID** | 1 | 2 | 3 | | | |
| **Date Tested** | 12/09/2025 | 12/09/2025 | 12/09/2025 | | | |
| **Time Tested** | 09:50 | 11:30 | 11:50 | | | |
| **E:** | 357004.988 | 356958.513 | 356954.133 | | | |
| **N:** | 5781206.129 | 5781267.355 | 5781255.722 | | | |
| **EL:** | 36.083 | 37.180 | 36.848 | | | |
| **Lot / Layer:** | 5528 / - | 5533 / 3 | 5532 / 2 | | | |

## Field and Laboratory Data

| | | | | | | |
|---|---|---|---|---|---|---|
| **Depth of Test (mm)** | 175 | 175 | 175 | | | |
| **Depth of Layer (mm)** | 200 | 200 | 200 | | | |
| **AS Sieve Size (mm)** | 19.0 | 19.0 | 19.0 | | | |
| **Oversize Wet (%)** | 0 | 0 | 0 | | | |
| **Field Moisture Content (%)** | 10.2 | 10.4 | 14.0 | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | | |
| **Field Wet Density (t/m³)** | 2.09 | 2.01 | 2.04 | | | |
| **Field Dry Density (t/m³)** | 1.90 | 1.82 | 1.79 | | | |
| **Peak Converted Wet Density (t/m³)** | 2.18 | 2.09 | 2.09 | | | |
| **Optimum Moisture Content (%)** | 10.5 | 12.5 | 14.0 | | | |
| **Compactive Effort** | Standard | Standard | Standard | | | |
| **Moisture Ratio (%)** | 96.0 | 84.5 | 100.0 | | | |
| **Moisture Variation (%)** | 0.5 dry | 2.0 dry | 0.0 | | | |
| **Hilf Density Ratio (%)** | **96.0** | **96.0** | **97.5** | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02223**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08652 | S25DS-08653 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 15/09/2025 | 15/09/2025 | | | | |
| **Time Tested** | 09:15 | 09:25 | | | | |
| **E:** | 356944.580 | 356993.611 | | | | |
| **N:** | 5781281.699 | 5781197.172 | | | | |
| **EL:** | 37.401 | 36.483 | | | | |
| **Lot / Layer:** | 5534 / 4 | 5524 / Final | | | | |

## Field and Laboratory Data

| | | | | | | |
|---|---|---|---|---|---|---|
| **Depth of Test (mm)** | 275 | 275 | | | | |
| **Depth of Layer (mm)** | 300 | 300 | | | | |
| **AS Sieve Size (mm)** | 19.0 | 19.0 | | | | |
| **Oversize Wet (%)** | 0 | 0 | | | | |
| **Field Moisture Content (%)** | 9.9 | 95.5 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.13 | 2.14 | | | | |
| **Field Dry Density (t/m³)** | 1.94 | 1.10 | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.15 | 2.07 | | | | |
| **Optimum Moisture Content (%)** | 10.0 | 98.5 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 100.0 | 97.0 | | | | |
| **Moisture Variation (%)** | 0.0 | 2.0 dry | | | | |
| **Hilf Density Ratio (%)** | **99.5** | **103.5** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02241**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08696 | S25DS-08697 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 16/09/2025 | 16/09/2025 | | | | |
| **Time Tested** | 10:40 | 15:00 | | | | |
| **E:** | 356954.441 | 356941.620 | | | | |
| **N:** | 5781242.348 | 5781251.792 | | | | |
| **EL:** | 36.632 | 36.939 | | | | |
| **Lot / Layer:** | 5531 / 3 | 5532 / 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 (%)** | 10.6 | 7.7 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.05 | 2.11 | | | | |
| **Field Dry Density (t/m³)** | 1.86 | 1.95 | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.15 | 2.14 | | | | |
| **Optimum Moisture Content (%)** | 11.5 | 10.0 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 93.5 | 77.0 | | | | |
| **Moisture Variation (%)** | 0.5 dry | 2.5 dry | | | | |
| **Hilf Density Ratio (%)** | **95.5** | **98.0** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02252**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## Sample Details

| | |
|---|---|
| **Location:** | Clyde |
| **Client Request ID:** | |
| **Specification Requirements:** | |
| **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-08747 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 17/09/2025 | | | | | |
| **Time Tested** | 12:40 | | | | | |
| **E:** | 356957.792 | | | | | |
| **N:** | 5781169.382 | | | | | |
| **EL:** | 34.594 | | | | | |
| **Lot / Layer:** | 55.16 / 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 (%)** | 29.7 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 1.92 | | | | | |
| **Field Dry Density (t/m³)** | 1.48 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.91 | | | | | |
| **Optimum Moisture Content (%)** | 29.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 103.0 | | | | | |
| **Moisture Variation (%)** | 1.0 wet | | | | | |
| **Hilf Density Ratio (%)** | **100.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02259**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-08793 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 18/09/2025 | | | | | |
| **Time Tested** | 09:30 | | | | | |
| **E:** | 356963.842 | | | | | |
| **N:** | 57981188.972 | | | | | |
| **EL:** | 35.236 | | | | | |
| **Lot / Layer:** | 5514 / - | | | | | |

## 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 (%)** | 14.0 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.01 | | | | | |
| **Field Dry Density (t/m³)** | 1.76 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.06 | | | | | |
| **Optimum Moisture Content (%)** | 15.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 92.0 | | | | | |
| **Moisture Variation (%)** | 1.0 dry | | | | | |
| **Hilf Density Ratio (%)** | **97.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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**Report No: HDR:W25DS02320**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-09030 | S25DS-09031 | S25DS-09032 | | | |
| **Field Sample ID** | 1 | 2 | 3 | | | |
| **Date Tested** | 29/09/2025 | 29/09/2025 | 29/09/2025 | | | |
| **Time Tested** | 14:00 | 14:10 | 14:20 | | | |
| **E:** | 356910.880 | 356904.581 | 356917.844 | | | |
| **N:** | 5781253.872 | 5781227.159 | 5781284.485 | | | |
| **EL:** | 36.742 | 36.302 | 37.551 | | | |
| **Lot / Layer:** | 5507 / 1 | 5509 / 1 | 5505 / 1 | | | |

## 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 (%)** | 21.0 | 20.4 | 20.4 | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | | |
| **Field Wet Density (t/m³)** | 2.03 | 1.95 | 1.90 | | | |
| **Field Dry Density (t/m³)** | 1.68 | 1.62 | 1.58 | | | |
| **Peak Converted Wet Density (t/m³)** | 1.93 | 1.90 | 1.91 | | | |
| **Optimum Moisture Content (%)** | 24.5 | 23.5 | 25.0 | | | |
| **Compactive Effort** | Standard | Standard | Standard | | | |
| **Moisture Ratio (%)** | 86.5 | 86.0 | 81.0 | | | |
| **Moisture Variation (%)** | 3.0 dry | 3.0 dry | 4.5 dry | | | |
| **Hilf Density Ratio (%)** | **105.5** | **102.5** | **99.5** | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02330**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-09139 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 30/09/2025 | | | | | |
| **Time Tested** | 17:30 | | | | | |
| **E:** | 356934.886 | | | | | |
| **N:** | 5781209.279 | | | | | |
| **EL:** | 35.465 | | | | | |
| **Lot / Layer:** | 5511 / - | | | | | |

## 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 (%)** | 20.2 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 1.95 | | | | | |
| **Field Dry Density (t/m³)** | 1.62 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.96 | | | | | |
| **Optimum Moisture Content (%)** | 22.5 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 89.5 | | | | | |
| **Moisture Variation (%)** | 2.5 dry | | | | | |
| **Hilf Density Ratio (%)** | **99.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

**Dandenong South**
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**Report No: HDR:W25DS02332**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-09143 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 1/10/2025 | | | | | |
| **Time Tested** | 09:50 | | | | | |
| **E:** | 356917.841 | | | | | |
| **N:** | 5781283.964 | | | | | |
| **EL:** | 37.551 | | | | | |
| **Lot / Layer:** | 5505 / 1 | | | | | |
| | Retest of S25DS-09032 | | | | | |

## 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 (%)** | 22.5 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 1.88 | | | | | |
| **Field Dry Density (t/m³)** | 1.53 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.94 | | | | | |
| **Optimum Moisture Content (%)** | 25.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 90.5 | | | | | |
| **Moisture Variation (%)** | 2.0 dry | | | | | |
| **Hilf Density Ratio (%)** | **96.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02347**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-09209 | S25DS-09210 | S25DS-09211 | S25DS-09212 | S25DS-09213 | S25DS-09214 |
|---|---|---|---|---|---|---|
| Field Sample ID | 1 | 2 | 3 | 4 | 5 | 6 |
| Date Tested | 3/10/2025 | 3/10/2025 | 3/10/2025 | 3/10/2025 | 3/10/2025 | 3/10/2025 |
| Time Tested | 10:30 | 10:45 | 11:00 | 13:00 | 13:10 | 13:50 |
| E: | 356908.181 | 356904.800 | 356901.113 | 356949.038 | 35933.720 | 356900.766 |
| N: | 5781266.057 | 5781238.453 | 57810211.906 | 5781206.762 | 5781211.152 | 5781279.631 |
| EL: | 37.230 | 36.718 | 36.150 | 35.361 | 35.562 | 37.663 |
| Lot / Layer: | 5506 / 2 | 5508 / 2 | 5510 / 1 | 5512 / 2 | 5511 / 2 | 5504 / 2 |
| **Field and Laboratory Data** | | | | | | |
| Depth of Test (mm) | 175 | 175 | 175 | 175 | 175 | 175 |
| Depth of Layer (mm) | 200 | 200 | 200 | 200 | 200 | 200 |
| AS Sieve Size (mm) | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Oversize Wet (%) | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Moisture Content (%) | 21.7 | 17.9 | 18.5 | 1.5 | 21.2 | 19.8 |
| Field Moisture Content Method | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 |
| Field Wet Density (t/m³) | 1.95 | 1.87 | 1.92 | 1.85 | 1.91 | 2.07 |
| Field Dry Density (t/m³) | 1.60 | 1.58 | 1.62 | 1.83 | 1.57 | 1.72 |
| Peak Converted Wet Density (t/m³) | 2.00 | 1.99 | 2.00 | 2.00 | 1.97 | 2.04 |
| Optimum Moisture Content (%) | 22.0 | 20.0 | 20.5 | 3.0 | 23.5 | 20.0 |
| Compactive Effort | Standard | Standard | Standard | Standard | Standard | Standard |
| Moisture Ratio (%) | 99.5 | 89.5 | 90.0 | 46.5 | 90.5 | 98.5 |
| Moisture Variation (%) | 0.0 | 2.0 dry | 2.0 dry | 2.0 dry | 2.0 dry | 0.5 dry |
| **Hilf Density Ratio (%)** | **97.0** | **94.0** | **96.0** | **92.5** | **97.0** | **101.0** |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02364**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## 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-09296 | S25DS-09297 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 7/10/2025 | 7/10/2025 | | | | |
| **Time Tested** | 08:45 | 10:00 | | | | |
| **E:** | 356910.204 | 356947.251 | | | | |
| **N:** | 5781238.995 | 5781212.131 | | | | |
| **EL:** | 36.791 | 35.507 | | | | |
| **Lot / Layer:** | 5508 / 2 | 5512 / - | | | | |
| | Retest of S25DS-09210 | Retest of S25DS-09212 | | | | |

## 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 (%)** | 20.3 | 21.1 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.03 | 2.01 | | | | |
| **Field Dry Density (t/m³)** | 1.69 | 1.66 | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.97 | 2.03 | | | | |
| **Optimum Moisture Content (%)** | 21.0 | 21.5 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 96.5 | 98.5 | | | | |
| **Moisture Variation (%)** | 0.5 dry | 0.5 dry | | | | |
| **Hilf Density Ratio (%)** | **103.0** | **99.5** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02382**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 23/10/2025



## 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-09367 | S25DS-09368 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 9/10/2025 | 9/10/2025 | | | | |
| **Time Tested** | 14:00 | 14:15 | | | | |
| **E:** | 356889.151 | 356893.259 | | | | |
| **N:** | 5781211.175 | 5781239.231 | | | | |
| **EL:** | 36.390 | 36.908 | | | | |
| **Lot / Layer:** | 5510 / Final | 5508 / 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 (%)** | 19.1 | 16.6 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 1.91 | 2.07 | | | | |
| **Field Dry Density (t/m³)** | 1.60 | 1.78 | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.93 | 1.96 | | | | |
| **Optimum Moisture Content (%)** | 22.0 | 19.5 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 88.0 | 86.0 | | | | |
| **Moisture Variation (%)** | 2.5 dry | 2.5 dry | | | | |
| **Hilf Density Ratio (%)** | **98.5** | **106.0** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02397**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 23/10/2025



## 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-09439 | S25DS-09440 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 14/10/2025 | 14/10/2025 | | | | |
| **Time Tested** | 09:40 | 14:00 | | | | |
| **E:** | 356951.353 | 356959.630 | | | | |
| **N:** | 5781174.194 | 5781201.886 | | | | |
| **EL:** | 34.502 | 35.381 | | | | |
| **Lot / Layer:** | 5515 / 1 | 5513 / 3 | | | | |

## Field and Laboratory Data

| | | | | | | |
|---|---|---|---|---|---|---|
| **Depth of Test (mm)** | 175 | 175 | | | | |
| **Depth of Layer (mm)** | 200 | 200 | | | | |
| **AS Sieve Size (mm)** | 19.0 | 19.0 | | | | |
| **Oversize Wet (%)** | 0 | 0 | | | | |
| **Field Moisture Content (%)** | 18.0 | 17.8 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 2.00 | 2.02 | | | | |
| **Field Dry Density (t/m³)** | 1.69 | 1.72 | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.05 | 2.04 | | | | |
| **Optimum Moisture Content (%)** | 18.5 | 18.5 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 98.5 | 96.5 | | | | |
| **Moisture Variation (%)** | 0.5 dry | 0.5 dry | | | | |
| **Hilf Density Ratio (%)** | **98.0** | **99.0** | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02457**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 6/03/2026



## 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-09784 | S25DS-09785 | S25DS-09786 | S25DS-09787 | | |
| **Field Sample ID** | 1 | 2 | 3 | 4 | | |
| **Date Tested** | 24/10/2025 | 24/10/2025 | 24/10/2025 | 24/10/2025 | | |
| **Time Tested** | 08:45 | 09:00 | 09:16 | 13:50 | | |
| **E:** | 356947.614 | 356950.420 | 356949.932 | 356932.402 | | |
| **N:** | 5781199.225 | 5781151.823 | 5781142.102 | 5781201.610 | | |
| **EL:** | 35.782 | 34.635 | 34.464 | 36.093 | | |
| **Lot / Layer:** | 5512 / 5 | 5517 / Final | 5518 / Final | 5511 / 6 | | |
| **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 (%)** | 24.3 | 24.4 | 24.0 | 18.2 | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | |
| **Field Wet Density (t/m³)** | 1.88 | 1.86 | 1.96 | 2.05 | | |
| **Field Dry Density (t/m³)** | 1.51 | 1.50 | 1.58 | 1.74 | | |
| **Peak Converted Wet Density (t/m³)** | 2.00 | 1.88 | 1.94 | 2.07 | | |
| **Optimum Moisture Content (%)** | 24.5 | 27.0 | 24.5 | 18.5 | | |
| **Compactive Effort** | Standard | Standard | Standard | Standard | | |
| **Moisture Ratio (%)** | 99.0 | 90.5 | 99.0 | 98.0 | | |
| **Moisture Variation (%)** | 0.5 dry | 2.5 dry | 0.0 | 0.5 dry | | |
| **Hilf Density Ratio (%)** | **94.0** | **99.0** | **101.5** | **99.0** | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02478**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 6/03/2026



## 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-09965 | S25DS-09966 | S25DS-09967 | | | |
|---|---|---|---|---|---|---|
| **Field Sample ID** | 1 | 2 | 3 | | | |
| **Date Tested** | 28/10/2025 | 28/10/2025 | 28/10/2025 | | | |
| **Time Tested** | 14:50 | 15:20 | 15:35 | | | |
| **E:** | 357009 | 356946.620 | 356947.615 | | | |
| **N:** | 5781246 | 5781212.913 | 5781198.135 | | | |
| **EL:** | - | 36.143 | 35.742 | | | |
| **Lot / Layer:** | 5527 / Final | 5512 / 7 | 5512 / 5 | | | |
| | | | Retest of S25DS-09784 | | | |
| **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 (%)** | 11.6 | 18.7 | 16.7 | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | AS 1289.2.1.1 | | | |
| **Field Wet Density (t/m³)** | 2.09 | 2.04 | 2.05 | | | |
| **Field Dry Density (t/m³)** | 1.87 | 1.72 | 1.76 | | | |
| **Peak Converted Wet Density (t/m³)** | 2.18 | 2.10 | 2.11 | | | |
| **Optimum Moisture Content (%)** | 11.5 | 18.5 | 16.5 | | | |
| **Compactive Effort** | Standard | Standard | Standard | | | |
| **Moisture Ratio (%)** | 99.5 | 100.0 | 100.5 | | | |
| **Moisture Variation (%)** | 0.0 | 0.0 | 0.0 | | | |
| **Hilf Density Ratio (%)** | **96.0** | **97.0** | **97.5** | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02486**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 6/03/2026



## 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-10002 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 29/10/2025 | | | | | |
| **Time Tested** | 11:30 | | | | | |
| **E:** | 356954.878 | | | | | |
| **N:** | 5781184.613 | | | | | |
| **EL:** | 5514 / 4 | | | | | |

## 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 (%)** | 14.0 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.09 | | | | | |
| **Field Dry Density (t/m³)** | 1.83 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.10 | | | | | |
| **Optimum Moisture Content (%)** | 15.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 95.0 | | | | | |
| **Moisture Variation (%)** | 1.0 dry | | | | | |
| **Hilf Density Ratio (%)** | **99.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Think Act Be Safe

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**Report No: HDR:W25DS02499**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 6/03/2026



## 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-10037 | | | | | |
| **Field Sample ID** | 1 | | | | | |
| **Date Tested** | 30/10/2025 | | | | | |
| **Time Tested** | 14:15 | | | | | |
| **E:** | 356964.735 | | | | | |
| **N:** | 5781202.013 | | | | | |
| **EL:** | 36.370 | | | | | |
| **Lot / Layer:** | 5513 / 8 | | | | | |

## 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 (%)** | 17.3 | | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | | | | | |
| **Field Wet Density (t/m³)** | 2.04 | | | | | |
| **Field Dry Density (t/m³)** | 1.74 | | | | | |
| **Peak Converted Wet Density (t/m³)** | 2.00 | | | | | |
| **Optimum Moisture Content (%)** | 20.0 | | | | | |
| **Compactive Effort** | Standard | | | | | |
| **Moisture Ratio (%)** | 87.0 | | | | | |
| **Moisture Variation (%)** | 2.5 dry | | | | | |
| **Hilf Density Ratio (%)** | **102.5** | | | | | |

## Comments

Results relate only to the items tested/sampled.

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**Report No: HDR:W25DS02514**
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 6/03/2026



## 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-10080 | S25DS-10081 | | | | |
| **Field Sample ID** | 1 | 2 | | | | |
| **Date Tested** | 31/10/2025 | 31/10/2025 | | | | |
| **Time Tested** | 08:30 | 11:50 | | | | |
| **E:** | 356957.360 | 356937.367 | | | | |
| **N:** | 5781188.613 | 5781214.448 | | | | |
| **EL:** | 35.659 | 36.667 | | | | |
| **Lot / Layer:** | 5514 / Final | 5511 / 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 (%)** | 20.5 | 22.2 | | | | |
| **Field Moisture Content Method** | AS 1289.2.1.1 | AS 1289.2.1.1 | | | | |
| **Field Wet Density (t/m³)** | 1.98 | 1.94 | | | | |
| **Field Dry Density (t/m³)** | 1.64 | 1.58 | | | | |
| **Peak Converted Wet Density (t/m³)** | 1.96 | 1.95 | | | | |
| **Optimum Moisture Content (%)** | 23.0 | 25.0 | | | | |
| **Compactive Effort** | Standard | Standard | | | | |
| **Moisture Ratio (%)** | 89.5 | 89.0 | | | | |
| **Moisture Variation (%)** | 2.5 dry | 2.5 dry | | | | |
| **Hilf Density Ratio (%)** | **101.0** | **99.0** | | | | |

## Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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**Report No: MAT:S25DS-08659/1**
**Issue No: 1**

# Material Test Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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



## Sample Details

| | |
|---|---|
| **Location** | Clyde |
| **Sample Location** | |
| **Field Sample ID** | 1 |
| **Date Sampled** | 9/09/2025 |
| **Time Sampled** | 10:40 |
| **Source** | Imported |
| **Material** | Clay |
| **Specification** | AS Grading |
| **Sampling Method** | AS1289.1.2.1 Clause 6.4 (b) |
| **Sample ID** | S25DS-08659 |

## Other Test Results

| Description | Method | Result | Limits |
|---|---|---|---|
| Moisture Content (%) | AS 1289.2.1.1 | 14.1 | |
| Date Tested | | 17/09/2025 | |
| Sample History | AS 1289.1.1 | Oven-Dried | |
| Preparation | AS 1289.1.1 | Dry Sieved | |
| Linear Shrinkage (%) | AS 1289.3.4.1 | 5.0 | |
| Mould Length (mm) | | 250 | |
| Crumbling | | No | |
| Curling | | No | |
| Cracking | | No | |
| Liquid Limit (%) | AS 1289.3.1.2 | 26 | |
| Plastic Limit (%) | AS 1289.3.2.1 | 13 | |
| Plasticity Index (%) | AS 1289.3.3.1 | 13 | |
| Date Tested | | 19/09/2025 | |

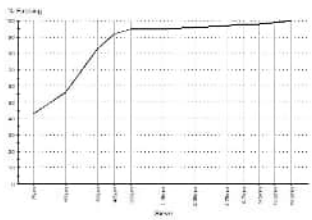
## Particle Size Distribution

**Method:** AS 1289.3.6.1
**Drying By:** Oven
**Date Tested:** 18/09/2025

**Note:** Sample Washed

| Sieve Size | % Passing | Limits |
|---|---|---|
| 19.0mm | 100 | |
| 13.2mm | 99 | |
| 9.5mm | 98 | |
| 6.7mm | 98 | |
| 4.75mm | 97 | |
| 2.36mm | 96 | |
| 1.18mm | 95 | |
| 600µm | 95 | |
| 425µm | 92 | |
| 300µm | 83 | |
| 150µm | 56 | |
| 75µm | 43 | |

## Chart



## Comments

Results relate only to the items tested/sampled.

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**Report No: MAT:S25DS-09216/1**
**Issue No: 1**

# Material Test Report

**Client:** Greenridge Properties Pty Ltd
**Address:** PO Box 3131
AUBURN VIC 3123
**Project:** Meridian Green Estate, Stage 55
**Project No.:** 1091936.055
**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: 23/10/2025



## Sample Details

| | |
|---|---|
| **Location** | Clyde |
| **Sample Location** | E: 356901.113, N: 57810211.906, EL: 36.150, Lot: 5510, Layer: 1 |
| **Field Sample ID** | 1 |
| **Date Sampled** | 3/10/2025 |
| **Time Sampled** | 11:00 |
| **Source** | Onsite |
| **Material** | CH Sandy CLAY, trace gravel, orange mottled grey, high plasticity, fine to coarse grained sand |
| **Specification** | AS Grading |
| **Sampling Method** | AS1289.1.2.1 Clause 6.4 (b) |
| **Sample ID** | S25DS-09216 |

## Other Test Results

| Description | Method | Result | Limits |
|---|---|---|---|
| Moisture Content (%) | AS 1289.2.1.1 | 18.2 | |
| Date Tested | | 7/10/2025 | |
| Sample History | AS 1289.1.1 | Oven-Dried | |
| Preparation | AS 1289.1.1 | Dry Sieved | |
| Linear Shrinkage (%) | AS 1289.3.4.1 | 13.0 | |
| Mould Length (mm) | | 250 | |
| Crumbling | | No | |
| Curling | | No | |
| Cracking | | Yes | |
| Liquid Limit (%) | AS 1289.3.1.2 | 61 | |
| Plastic Limit (%) | AS 1289.3.2.1 | 17 | |
| Plasticity Index (%) | AS 1289.3.3.1 | 44 | |
| Date Tested | | 8/10/2025 | |

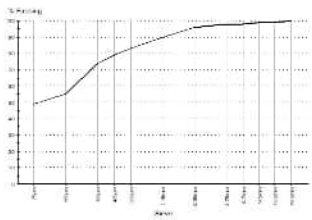
## Particle Size Distribution

**Method:** AS 1289.3.6.1
**Drying By:** Oven
**Date Tested:** 13/10/2025

**Note:** Sample Washed

| Sieve Size | % Passing | Limits |
|---|---|---|
| 19.0mm | 100 | |
| 13.2mm | 99 | |
| 9.5mm | 99 | |
| 6.7mm | 98 | |
| 4.75mm | 98 | |
| 2.36mm | 96 | |
| 1.18mm | 90 | |
| 600µm | 83 | |
| 425µm | 79 | |
| 300µm | 74 | |
| 150µm | 55 | |
| 75µm | 49 | |

## Chart



## Comments

Results relate only to the items tested/sampled.

# Appendix D Fill Certificate

# CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

**PROJECT** : Meridian Green Estate
Stage 55
Lot's 5501 & 5504 to Lot 5534

**REF:** 1091936.055.R1.v1

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

**DATE:** 25 March 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 between 18 August 2025 and was completed 31 October 2025. No responsibility or liability will be accepted, and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

**CHADWICK GEOTECHNICS PTY LTD**

**Robert Barden**
**Project Manager**

**Michael DiMeglio**
**Project Director**



www.chadwickgeotechnics.com.au

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