CHADWICK GEOTECHNICS

REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

Meridian Green Estate Stage 57, Lots 5701 to 5713, 5717 to 5724 & Lots 5729 to 5739

Prepared for:

Greenridge Properties Pty Ltd

17/03/2026

Our Ref: 1091936.57.v1

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Document control

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

Distribution:

Greenridge Properties Pty Ltd	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 57 of the Meridian Green Estate in Clyde North. This report relates to the Stage 57 works only, the testing was undertaken between 14 January 2026 and the 10 February 2026.

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

2 Project details

2.1 Location

Stage 57 is located North-East of Hardys Rd, and the site is on Kadamba Lane and Orbifolia Road 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 12 December 2025



2.2 Roles

The organisations and their roles are presented in Table 2.1

Table 2.1: Roles on the Project

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

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

2.3 Dates on Site

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

Table 2.2: Level 1 GITA – Onsite Presence

Month	Dates on site
January 2026	14, 15, 16, 19, 21, 22, 23, 27, 28, 29, 30
February 2026	3, 4, 10

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within the Meridian Green Estate Stage 57, as shown on the Site Plan in Appendix A, and with reference to Section 2.5 (Excluded Areas) of this report.

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

- The residential lots filled include Lots 5701 to 5713, 5717 to 5724 and Lots 5729 to 5739.

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

The fill materials used during construction 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 during the Stage 56 earthwork filling works, the fill materials used for stages 56 and 57 were sourced from the same location. The sample was taken for geotechnical compliance testing.

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-10463	97	96	88	82	76	57	40	14	26	On-site

The laboratory test result indicates the fill material is a sandy CLAY of medium 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

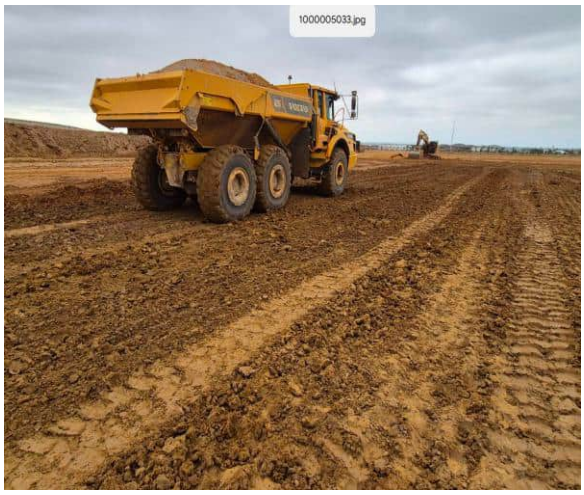


Photo 3: Subgrade assessment with Dump truck



Photo 4: Subgrade assessment with loaded Dump truck

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 Volvo**
Scraper and Tractor	**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: Dozer



Photograph 6: Pad foot roller compacting clay



Photograph 7: Water cart conditioning clay



Photograph 8: Tractor and scraper moving 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- four (54) tests were performed during the filling process. Nineteen (19) of the tests didn't achieve the recommended density or moisture ratio. These areas were reworked and retested to achieve a pass result.

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: PNDG Field density/moisture test

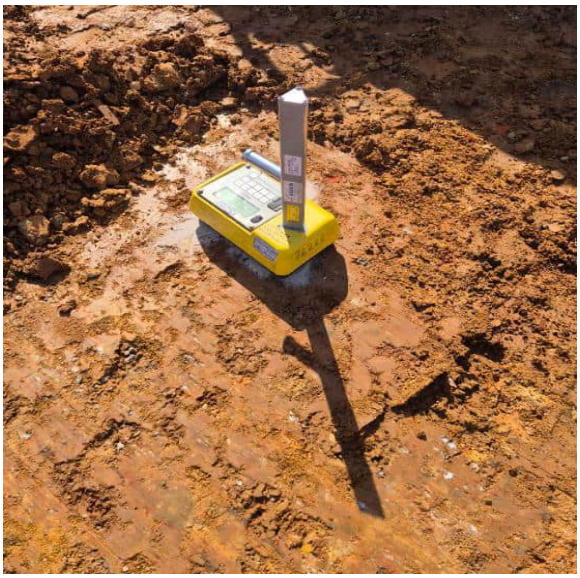


Photo 10: PNDG Field density/moisture test

5 Conclusion

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

- The materials, used by the earth-works contractor met the geotechnical property requirements of the specification.
- The sourced fill was, considered to be natural, clean, and suitable for use at the site.
- The fill material placed was tested at a suitable frequency in accordance with AS 3798-2007-Table 8.1 and the results indicate the compacted clay achieved the density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor and as witnessed by the Chadwick Geotechnics, combined with the satisfactory verification of test results achieved, it is inferred that areas of the site between test locations were performed to the same standard as those areas that have been tested.
- Based on observations made by Chadwick Geotechnics Level 1 personal and the results of field and laboratory tests, we consider that the engineered fill within the site (noted in Section 2.5), as far as we have been able to reasonably determine, have been placed in general accordance with the intent of the specification.
- It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 – Level 1 Inspection and Testing - AS3798-2007 Guidelines on Earthworks for Commercial and Residential Developments.

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

6 Applicability

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

This report is based on the nature of the project and the prevailing conditions between 14 January 2026 and 10 February 2026. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

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

Chadwick Geotechnics Pty Ltd

Report prepared by:



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Robert Barden

Project Manager

Authorised for Chadwick Geotechnics Pty Ltd by:

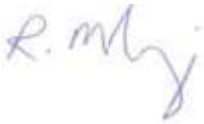


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Michael Di Meglio

Project Director

Report reviewed by:



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Robert McKenzie

Principal Geotechnical Engineer

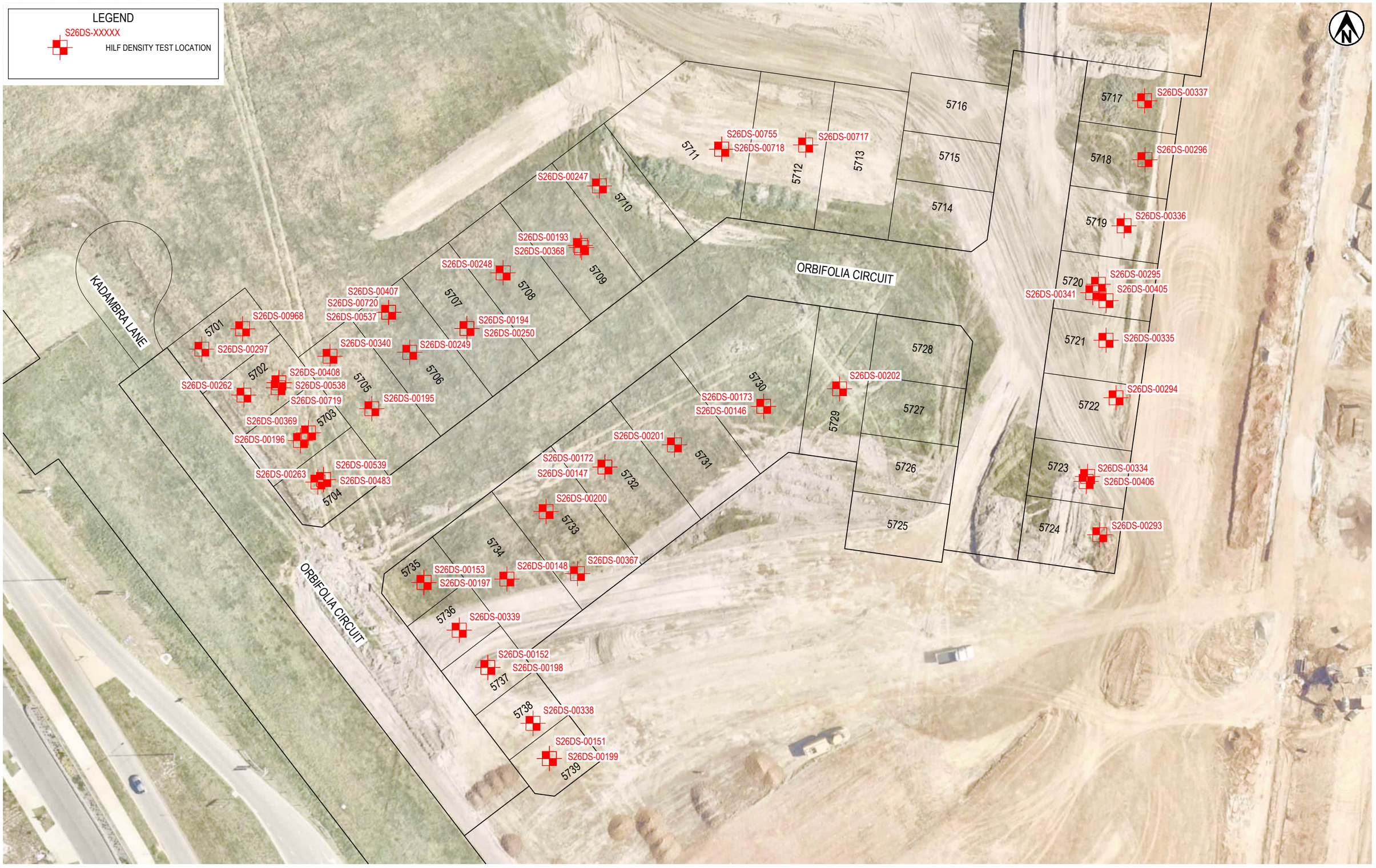
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Appendix A Test Location Plan

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PROJECT No.	1091936.057	
DESIGNED	STPA	Mar.26
DRAWN	KMJA	Mar.26
CHECKED	RHB	Mar.26
	R. BARDEN	04.03.2026
	APPROVED	DATE

CLIENT **GREENRIDGE PROPERTIES PTY LTD**
PROJECT **MERIDIAN GREEN ESTATE - STAGE 57**
TITLE LEVEL ONE HILF DENSITY TESTING
HILF DENSITY TEST LOCATION PLAN
SCALE (A3) 1:750 FIG No. 1091936.057-F01 REV 1

Appendix B Hilf Density Test Summary

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Meridian Green, 1091936.057

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:W26DS00034	S26DS-00146	14/01/2026	1	5730 / -	356803	5781204	36.887	91.5	4.5 dry	Fail	See Retest S26DS-00173
HDR:W26DS00034	S26DS-00147	14/01/2026	2	5732 / -	356769	5781191	37.197	97	4 dry	Fail	See Retest S26DS-00172
HDR:W26DS00034	S26DS-00148	14/01/2026	3	5734 / -	356748	5781167	37.005	97	2.5 dry	Pass	
HDR:W26DS00036	S26DS-00151	15/01/2026	1	5739 / 1	356757	5781129	36.073	99	4.5 dry	Fail	See Retest S26DS-00199
HDR:W26DS00036	S26DS-00152	15/01/2026	2	5737 / 1	356744	5781148	36.534	100	3.5 dry	Fail	See Retest S26DS-00198
HDR:W26DS00036	S26DS-00153	15/01/2026	3	5735 / 1	356730	5781166	37.045	100	5 dry	Fail	See Retest S26DS-00197
HDR:W26DS00045	S26DS-00172	16/01/2026	1	5732 / 1	356769	5781191	37.197	95.5	2.5 dry	Pass	Retest of S26DS-00147
HDR:W26DS00045	S26DS-00173	16/01/2026	2	5730 / 1	356803	5781204	36.887	95.5	1.5 dry	Pass	Retest of S26DS-00146
HDR:W26DS00053	S26DS-00193	19/01/2026	1	5709 / 1	356764	5781238	37.882	101	3.5 dry	Fail	See Retest S26DS-00368
HDR:W26DS00053	S26DS-00194	19/01/2026	2	5707 / 1	356739	5781221	37.976	98	4 dry	Fail	See Retest S26DS-00250
HDR:W26DS00053	S26DS-00195	19/01/2026	3	5705	356719	5781204	37.041	98.5	3 dry	Pass	
HDR:W26DS00053	S26DS-00196	19/01/2026	4	5703	356704	5781197	38.018	94.5	1.5 dry	Fail	See Retest S26DS-00369
HDR:W26DS00053	S26DS-00197	19/01/2026	5	5735 / 1	356730	5781166	37.045	96.5	1.5 dry	Pass	Retest of S26DS-00153
HDR:W26DS00053	S26DS-00198	19/01/2026	6	5737 / 1	356744	5781148	36.534	98	0 dry	Pass	Retest of S26DS-00152
HDR:W26DS00053	S26DS-00199	19/01/2026	7	5739 / 1	356757	5781129	36.073	96	0 wet	Pass	Retest of S26DS-00151
HDR:W26DS00053	S26DS-00200	19/01/2026	8	5733 / 2	356756	5781181	37.57	109	5.5 dry	Fail	See Retest S26DS- 0367
HDR:W26DS00053	S26DS-00201	19/01/2026	9	5731 / 2	356784	5781196	37.335	102.5	3.0 dry	Pass	
HDR:W26DS00053	S26DS-00202	19/01/2026	10	5729 / 2	356819	5781208	36.843	98	2.5 dry	Pass	
HDR:W26DS00067	S26DS-00247	21/01/2026	1	5710	356768	5781251	38.076	95.5	0 wet	Pass	
HDR:W26DS00067	S26DS-00248	21/01/2026	2	5708	356747	5781233	38.151	98.5	2 dry	Pass	

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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:W26DS00067	S26DS-00249	21/01/2026	3	5706	356727	5781216	38.184	98.5	3 dry	Pass	
HDR:W26DS00067	S26DS-00250	21/01/2026	4	5707	356739	5781221	37.976	95.5	0.5 dry	Pass	Retest of S26DS-00194
HDR:W26DS00074	S26DS-00262	21/01/2026	5	5702 / 2	356692	5781206	38.422	101	1.5 dry	Pass	
HDR:W26DS00074	S26DS-00263	21/01/2026	6	5704 / 2	356708	5781188	37.864	103	3.5 dry	Fail	See Retest S26DS-00483
HDR:W26DS00090	S26DS-00293	22/01/2026	1	5724	356875	5781177	35.636	97.5	2.5 dry	Pass	
HDR:W26DS00090	S26DS-00294	22/01/2026	2	5722	356878	5781206	35.996	95	2.5 dry	Pass	
HDR:W26DS00090	S26DS-00295	22/01/2026	3	5720	356875	5781230	36.446	90.5	0 wet	Fail	See Retest S25DS-00341
HDR:W26DS00090	S26DS-00296	22/01/2026	4	5718	356885	5781257	36.907	98.5	2.5 dry	Pass	
HDR:W26DS00090	S26DS-00297	22/01/2026	5	5701	356683	5781216	38.684	96	2.5 dry	Pass	
HDR:W26DS00102	S26DS-00334	23/01/2026	1	5723 / 2	356872	5781189	35.885	93.5	0 wet	Fail	See Retest S26DS-00406
HDR:W26DS00102	S26DS-00335	23/01/2026	2	5721 / 2	356876	5781218	36.433	93	0 wet	Fail	See Retest S26DS-00405
HDR:W26DS00102	S26DS-00336	23/01/2026	3	5719 / 2	356880	5781243	36.929	96.5	0 dry	Pass	
HDR:W26DS00102	S26DS-00337	23/01/2026	4	5717 / 2	356885	5781269	37.434	97.5	2 dry	Pass	
HDR:W26DS00102	S26DS-00338	23/01/2026	5	5738 / 2	356754	5781136	36.584	102.5	3.0 dry	Pass	
HDR:W26DS00102	S26DS-00339	23/01/2026	6	5736 / 2	356738	5781156	37.041	99.5	2 dry	Pass	
HDR:W26DS00102	S26DS-00340	23/01/2026	7	5705 / 4	356710	5781215	38.667	98	2.5 dry	Pass	
HDR:W26DS00102	S26DS-00341	23/01/2026	8	5720	356874	5781228	36.446	96.5	2 dry	Pass	Retest of S26DS-00295
HDR:W26DS00112	S26DS-00367	27/01/2026	1	5733 / 2	356763	5781168	37.702	100	0 wet	Pass	Retest of S26DS-00200
HDR:W26DS00112	S26DS-00368	27/01/2026	2	5709 / 1	356764	5781238	37.5	102.5	2.5 dry	Pass	Retest of S26DS-00193
HDR:W26DS00112	S26DS-00369	27/01/2026	3	5703	356705	5781198	38.018	96.5	1.5 dry	Pass	Retest of S26DS-00196
HDR:W26DS00128	S26DS-00405	28/01/2026	1	5721 / 2	356876	5781219	36.401	104.5	2.5 dry	Pass	Retest of S26DS-00335
HDR:W26DS00128	S26DS-00406	28/01/2026	2	5723 / 2	356872	5781188	35.809	101	2.5 dry	Pass	Retest of S26DS-00334

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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:W26DS00128	S26DS-00407	28/01/2026	3	5706 / 4	356723	5781224	38.704	102	3.5 dry	Fail	See Retest S26DS-00537
HDR:W26DS00128	S26DS-00408	28/01/2026	4	5702 / 4	356699	5781209	38.91	101.5	4 dry	Fail	See Retest S26Ds-00538
HDR:W26DS00146	S26DS-00483	29/01/2026	1	5704 / 2	356709	5781188	37.86	106	4.5 dry	Fail	Retest of S26DS-00263 See 00539
HDR:W26DS00159	S26DS-00537	30/01/2026	1	5706 / 4	356723	5781224	38.704	107	4.5 dry	Fail	Retest of S26DS-00407 See 00720
HDR:W26DS00159	S26DS-00538	30/01/2026	2	5702 / 4	356699	5781209	38.91	102.5	4 dry	Fail	Retest of S26DS-00408 see 00719
HDR:W26DS00159	S26DS-00539	30/01/2026	3	5704 / 2	356709	5781188	37.86	97	1.5 dry	Pass	Retest of S26DS-00483
HDR:W26DS00197	S26DS-00717	3/02/2026	1	5717	356812	5781260	37.462	97	0 dry	Pass	
HDR:W26DS00197	S26DS-00718	3/02/2026	2	5711 / 1	356794	5781259	37.751	94.5	0 dry	Fail	See Retest S26DS-00755
HDR:W26DS00197	S26DS-00719	3/02/2026	3	5702	356699	5781208	38.91	98.5	3 dry	Pass	Retest of S26DS-00538
HDR:W26DS00197	S26DS-00720	3/02/2026	4	5706 / 4	356723	5781224	38.704	99.5	3 dry	Pass	Retest S26DS-00537
HDR:W26DS00208	S26DS-00755	4/02/2026	1	5711 / 1	356794	5781259	37.751	102.5	2.5 dry	Pass	Retest of S26DS-00718
HDR:W26DS00254	S26DS-00968	10/02/2026	1	5701 / 6	356691	5781221	39.269	99	0 wet	Pass	

Appendix C NATA endorsed laboratory reports

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

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Fax: +61 3 9706 9431

Report No: HDR:W26DS00034
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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 trace of Gravel/Sand

Sample Data

Sample ID	S26DS-00146	S26DS-00147	S26DS-00148			
Field Sample ID	1	2	3			
Date Tested	14/01/2026	14/01/2026	14/01/2026			
Time Tested	15:00	15:15	15:30			
E:	356803	356769	356748			
N:	5781204	5781191	5781167			
EL:	36.887	37.197	37.005			
Lot / Layer:	5730 / -	5732 / -	5734 / -			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	15.3	18.9	21.6			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.82	1.85	1.86			
Field Dry Density (t/m³)	1.58	1.56	1.53			
Peak Converted Wet Density (t/m³)	1.99	1.91	1.92			
Optimum Moisture Content (%)	20.0	23.0	24.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	75.5	81.5	90.0			
Moisture Variation (%)	4.5 dry	4.0 dry	2.5 dry			
Hilf Density Ratio (%)	**91.5**	**97.0**	**97.0**			

Comments

Results relate only to the items tested/sampled.

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Dandenong South
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DANDENONG SOUTH, VIC 3175

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Report No: HDR:W26DS00036
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S26DS-00151	S26DS-00152	S26DS-00153			
Field Sample ID	1	2	3			
Date Tested	15/01/2026	15/01/2026	15/01/2026			
Time Tested	12:30	11:00	11:20			
E:	356757.082	356743.917	356730.245			
N:	5781128.546	5781148.080	5781166.285			
EL:	36.073	36.534	37.045			
Lot / Layer:	5739 / 1	5737 / 1	5735 / 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	17.9	18.6			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.84	1.92	1.87			
Field Dry Density (t/m³)	1.52	1.62	1.57			
Peak Converted Wet Density (t/m³)	1.86	1.92	1.87			
Optimum Moisture Content (%)	25.5	21.5	23.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	82.5	84.0	78.5			
Moisture Variation (%)	4.5 dry	3.5 dry	5.0 dry			
Hilf Density Ratio (%)	**99.0**	**100.0**	**100.0**			

Comments

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CHADWICK GEOTECHNICS

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Report No: HDR:W26DS00045
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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 trace of Sand & Gravel

Sample Data

Sample ID	S26DS-00172	S26DS-00173				
Field Sample ID	1	2				
Date Tested	16/01/2026	16/01/2026				
Time Tested	11:20	12:40				
E:	0356769	0356803				
N:	5781191	5781204				
EL:	37.197	36.887				
Lot / Layer:	5732 / 1	5730 / 1				
	Retest of S26DS-00147	Retest of S26DS-00146				
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 (%)	18.9	20.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.83	1.92				
Field Dry Density (t/m³)	1.54	1.60				
Peak Converted Wet Density (t/m³)	1.92	2.01				
Optimum Moisture Content (%)	21.5	21.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	88.0	92.5				
Moisture Variation (%)	2.5 dry	1.5 dry				
Hilf Density Ratio (%)	**95.5**	**95.5**				

Comments

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Report No: HDR:W26DS00053
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00193	S26DS-00194	S26DS-00195	S26DS-00196	S26DS-00197	S26DS-00198
Field Sample ID	1	2	3	4	5	6
Date Tested	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026	19/01/2026
Time Tested	09:15	09:25	09:35	09:45	12:15	12:30
E:	356763.740	356739.437	356719.054	356704	356730.245	356743.917
N:	5781238.479	5781220.678	5781203.502	5781197	5781166.285	5781148.060
EL:	37.882	37.976	387.041	38.018	37.045	36.534
Lot / Layer:	5709 / 1	5707 / 1	5705 / 1	5703 / 1	5735 / 1	5737 / 1
					Retest of S26DS-00153	Retest of S26DS-00152
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 (%)	18.8	14.8	17.2	14.0	16.8	16.9
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)	1.92	1.91	1.86	1.95	1.94	1.92
Field Dry Density (t/m³)	1.61	1.66	1.59	1.71	1.66	1.65
Peak Converted Wet Density (t/m³)	1.90	1.95	1.89	2.06	2.01	1.97
Optimum Moisture Content (%)	22.5	19.0	20.0	15.5	18.5	17.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	83.5	78.0	86.0	90.5	91.5	99.5
Moisture Variation (%)	3.5 dry	4.0 dry	3.0 dry	1.5 dry	1.5 dry	0.0
Hilf Density Ratio (%)	**101.0**	**98.0**	**98.5**	**94.5**	**96.5**	**98.0**

Comments

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Report No: HDR:W26DS00053
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00199	S26DS-00200	S26DS-00201	S26DS-00202		
Field Sample ID	7	8	9	10		
Date Tested	19/01/2026	19/01/2026	19/01/2026	19/01/2026		
Time Tested	12:45	13:40	14:00	14:30		
E:	356757.082	356756.388	356783.906	356819.249		
N:	5781128.546	5781181.469	5781195.753	5781207.769		
EL:	36.073	37.570	37.335	36.843		
Lot / Layer:	5739 / 1	5733 / 2	5731 / 2	5729 / 2		
	Retest of S26DS-00151					
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 (%)	19.4	18.5	18.2	16.6		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.92	1.99	1.95	1.95		
Field Dry Density (t/m³)	1.60	1.68	1.65	1.67		
Peak Converted Wet Density (t/m³)	2.00	1.83	1.90	1.99		
Optimum Moisture Content (%)	19.5	24.0	21.0	19.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	101.0	76.5	86.0	87.0		
Moisture Variation (%)	0.0	5.5 dry	3.0 dry	2.5 dry		
Hilf Density Ratio (%)	**96.0**	**109.0**	**102.5**	**98.0**		

Comments

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Report No: HDR:W26DS00067
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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: In-Situ
Material: Clay

Sample Data

Sample ID	S26DS-00247	S26DS-00248	S26DS-00249	S26DS-00250		
Field Sample ID	1	2	3	4		
Date Tested	21/01/2026	21/01/2026	21/01/2026	21/01/2026		
Time Tested	11:20	14:40	14:50	15:00		
E:	356767.826	356747.199	356727.191	356739.437		
N:	5781251.230	5781232.607	5781215.593	5781220.678		
EL:	38.076	38.151	38.184	37.976		
Lot/ Layer:	5710 / 3	5708 / 3	5706 / 3	5707 / 1		
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	18.7	18.6	21.4	21.8		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.95	1.93	1.91	1.92		
Field Dry Density (t/m³)	1.64	1.63	1.57	1.57		
Peak Converted Wet Density (t/m³)	2.05	1.96	1.94	2.01		
Optimum Moisture Content (%)	18.5	20.5	24.5	22.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	100.5	90.0	87.0	98.5		
Moisture Variation (%)	0.0	2.0 dry	3.0 dry	0.5 dry		
Hilf Density Ratio (%)	**95.5**	**98.5**	**98.5**	**95.5**		

Comments

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Report No: HDR:W26DS00074
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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	S26DS-00262	S26DS-00263				
Field Sample ID	1	2				
Date Tested	21/01/2026	21/01/2026				
Time Tested	15:16	15:20				
E:	356691.668	356707.516				
N:	5781206.429	5781187.796				
EL:	38.422	37.864				
Lot / Layer:	5702 / 2	5704 / 2				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	13.3	16.7				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.11	1.97				
Field Dry Density (t/m³)	1.86	1.69				
Peak Converted Wet Density (t/m³)	2.08	1.92				
Optimum Moisture Content (%)	15.0	20.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	88.5	83.5				
Moisture Variation (%)	1.5 dry	3.5 dry				
Hilf Density Ratio (%)	**101.0**	**103.0**				

Comments

Results relate only to the items tested/sampled.

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Report No: HDR:W26DS00090
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00293	S26DS-00294	S26DS-00295	S26DS-00296	S26DS-00297	
Field Sample ID	1	2	3	4	5	
Date Tested	22/01/2026	22/01/2026	22/01/2026	22/01/2026	22/01/2026	
Time Tested	11:00	11:20	11:30	11:40	15:50	
E:	356875.001	356878.488	356875	356884.703	356682.638	
N:	5781176.508	5781205.848	57810230	5781256.852	5781216.268	
EL:	35.636	35.996	36.446	36.907	38.684	
Lot / Layer:	5724 / 1	5722 / 1	5720 / 1	5718 / 1	5701 / 2	
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	
Depth of Layer (mm)	200	200	200	200	200	
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	
Oversize Wet (%)	0	0	0	0	0	
Field Moisture Content (%)	22.5	17.5	16.2	20.4	20.6	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.89	1.87	1.90	1.90	1.87	
Field Dry Density (t/m³)	1.54	1.59	1.64	1.58	1.55	
Peak Converted Wet Density (t/m³)	1.94	1.97	2.10	1.93	1.94	
Optimum Moisture Content (%)	25.5	20.0	16.0	23.0	23.5	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Ratio (%)	89.0	87.0	100.5	88.0	88.0	
Moisture Variation (%)	2.5 dry	2.5 dry	0.0	2.5 dry	2.5 dry	
Hilf Density Ratio (%)	**97.5**	**95.0**	**90.5**	**98.5**	**96.0**	

Comments

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CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
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Report No: HDR:W26DS00102
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S26DS-00334	S26DS-00335	S26DS-00336	S26DS-00337	S26DS-00338	S26DS-00339
Field Sample ID	1	2	3	4	5	6
Date Tested	23/01/2026	23/01/2026	23/01/2026	23/01/2026	23/01/2026	23/01/2026
Time Tested	07:40	08:00	08:15	08:35	12:40	13:00
E:	356872.408	356876.355	356880.228	356884.622	356753.589	356737.775
N:	5781188.985	5781218.167	5781242.698	5781269.484	5781136.100	5781156.068
EL:	35.885	36.433	36.929	37.434	36.584	37.041
Lot / Layer:	5723 / 2	5721 / 2	5719 / 2	5717 / 2	5738 / 2	5736 / 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 (%)	17.3	15.8	14.3	18.4	17.5	15.5
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)	1.96	1.94	2.00	1.92	1.97	2.00
Field Dry Density (t/m³)	1.67	1.68	1.75	1.62	1.67	1.73
Peak Converted Wet Density (t/m³)	2.10	2.09	2.07	1.97	1.92	2.01
Optimum Moisture Content (%)	17.0	15.5	14.5	20.5	20.5	17.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	101.5	101.0	99.0	89.0	85.5	87.5
Moisture Variation (%)	0.0	0.0	0.0	2.0 dry	3.0 dry	2.0 dry
Hilf Density Ratio (%)	**93.5**	**93.0**	**96.5**	**97.5**	**102.5**	**99.5**

Comments

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CHADWICK GEOTECHNICS

Dandenong South
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Fax: +61 3 9706 9431

Report No: HDR:W26DS00102
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00340	S26DS-00341				
Field Sample ID	7	8				
Date Tested	23/01/2026	23/01/2026				
Time Tested	14:10	14:30				
E:	356710.109	356874				
N:	5781214.741	5781228				
EL:	38.667	36.446				
Lot / Layer:	5705 / 4	5720 / 2				
		Retest of S26DS-00295				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	17.3	14.5				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.94	1.98				
Field Dry Density (t/m³)	1.65	1.73				
Peak Converted Wet Density (t/m³)	1.98	2.06				
Optimum Moisture Content (%)	20.0	17.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	87.0	86.5				
Moisture Variation (%)	2.5 dry	2.0 dry				
Hilf Density Ratio (%)	**98.0**	**96.5**				

Comments

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Report No: HDR:W26DS00112
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00367	S26DS-00368	S26DS-00369			
Field Sample ID	1	2	3			
Date Tested	27/01/2026	27/01/2026	27/01/2026			
Time Tested	09:00	09:10	10:20			
E:	356763.120	356764	356705			
N:	5781168.185	5781238	5781198			
EL:	37.702	37.50	38.018			
Lot / Layer:	5733 / 2	5709 / 1	5707 / 1			
	Retest of S26DS-00200	Retest of S26DS-00193	Retest of S26DS-00196			
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 (%)	21.8	19.0	15.2			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.99	2.00	1.97			
Field Dry Density (t/m³)	1.63	1.68	1.71			
Peak Converted Wet Density (t/m³)	1.99	1.95	2.04			
Optimum Moisture Content (%)	22.0	21.5	17.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	100.0	88.0	90.0			
Moisture Variation (%)	0.0	2.5 dry	1.5 dry			
Hilf Density Ratio (%)	**100.0**	**102.5**	**96.5**			

Comments

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Report No: HDR:W26DS00128
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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	S26DS-00405	S26DS-00406	S26DS-00407	S26DS-00408		
Field Sample ID	1	2	3	4		
Date Tested	28/01/2026	28/01/2026	28/01/2026	28/01/2026		
Time Tested	12:50	13:05	14:40	14:50		
E:	356876.354	356872.101	356722.675	356699.181		
N:	5781219.013	5781187.913	5781224.146	5781209.052		
EL:	36.401	35.809	38.704	38.910		
Lot / Layer:	5721 / 2	5723 / 2	5706 / 4	5702 / 4		
	Retest of S26DS-00335	Retest of S26DS-00334				
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 (%)	12.5	12.3	21.0	19.5		
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)	2.13	2.09	1.91	1.88		
Field Dry Density (t/m³)	1.89	1.86	1.58	1.57		
Peak Converted Wet Density (t/m³)	2.04	2.07	1.88	1.85		
Optimum Moisture Content (%)	15.0	14.5	24.5	24.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	83.5	84.0	86.0	82.0		
Moisture Variation (%)	2.5 dry	2.5 dry	3.5 dry	4.0 dry		
Hilf Density Ratio (%)	**104.5**	**101.0**	**102.0**	**101.5**		

Comments

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Report No: HDR:W26DS00146
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 98%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Onsite
Material:	Clay

Sample Data

Sample ID	S26DS-00483					
Field Sample ID	1					
Date Tested	29/01/2026					
Time Tested	11:00					
E:	356708.719					
N:	5781188.315					
EL:	37.860					
Lot / Layer:	5704 / 2					
	Retest of S26DS-00263					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
Field Moisture Content (%)	20.4					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.97					
Field Dry Density (t/m³)	1.64					
Peak Converted Wet Density (t/m³)	1.86					
Optimum Moisture Content (%)	25.0					
Compactive Effort	Standard					
Moisture Ratio (%)	81.0					
Moisture Variation (%)	4.5 dry					
Hilf Density Ratio (%)	**106.0**					

Comments

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Report No: HDR:W26DS00159
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00537	S26DS-00538	S26DS-00539			
Field Sample ID	1	2	3			
Date Tested	30/01/2026	30/01/2026	30/01/2026			
Time Tested	09:15	09:30	12:30			
E:	356722.675	36699	356708.719			
N:	5781224.146	5781209	5781188.315			
EL:	38.704	38.910	37.860			
Lot / Layer:	5706 / 4	5702 / 4	5704 / 2			
	Retest of S26DS-00407	Retest of S26DS-00408	Retest of S26DS-00483-00263			
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 (%)	23.2	20.5	18.0			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.97	1.91	1.95			
Field Dry Density (t/m³)	1.60	1.59	1.66			
Peak Converted Wet Density (t/m³)	1.84	1.86	2.02			
Optimum Moisture Content (%)	28.0	24.5	19.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	83.5	83.5	92.0			
Moisture Variation (%)	4.5 dry	4.0 dry	1.5 dry			
Hilf Density Ratio (%)	**107.0**	**102.5**	**97.0**			

Comments

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Report No: HDR:W26DS00197
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 13/03/2026

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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	S26DS-00717	S26DS-00718	S26DS-00719	S26DS-00720		
Field Sample ID	1	2	3	4		
Date Tested	3/02/2026	3/02/2026	3/02/2026	3/02/2026		
Time Tested	09:15	09:30	13:00	13:15		
E:	356812.201	356794.004	356699	356722.675		
N:	5781260.001	5781259.108	5781208	5781224.146		
EL:	37.462	37.751	38.910	38.704		
Lot / Layer:	5712 / 1	5711 / 1	5702 / 4	5706 / 4		
			Retest of S26DS-00538			
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 (%)	22.5	20.0	20.4	22.2		
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)	1.93	1.90	1.89	1.92		
Field Dry Density (t/m³)	1.57	1.58	1.57	1.57		
Peak Converted Wet Density (t/m³)	1.99	2.01	1.92	1.92		
Optimum Moisture Content (%)	22.5	20.0	23.5	25.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	99.0	99.5	87.5	87.5		
Moisture Variation (%)	0.0	0.0	3.0 dry	3.0 dry		
Hilf Density Ratio (%)	**97.0**	**94.5**	**98.5**	**99.5**		

Comments

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Report No: HDR:W26DS00208
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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	S26DS-00755					
Field Sample ID	1					
Date Tested	4/02/2026					
Time Tested	11:00					
E:	356794.004					
N:	5781259.108					
EL:	37.751					
Lot / Layer:	5711 / 1					
	Retest of S26DS-00718					

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 (%)	15.5					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.06					
Field Dry Density (t/m³)	1.78					
Peak Converted Wet Density (t/m³)	2.01					
Optimum Moisture Content (%)	18.5					
Compactive Effort	Standard					
Moisture Ratio (%)	84.5					
Moisture Variation (%)	2.5 dry					
Hilf Density Ratio (%)	**102.5**					

Comments

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Report No: HDR:W26DS00254
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 57
Project No.: 1091936.057
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: 19/02/2026

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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	S26DS-00968					
Field Sample ID	1					
Date Tested	10/02/2026					
Time Tested	12:25					
E:	356691.380					
N:	5781220.632					
EL:	39.269					
Lot / Layer:	5701 / 6					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
Field Moisture Content (%)	26.4					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.91					
Field Dry Density (t/m³)	1.51					
Peak Converted Wet Density (t/m³)	1.93					
Optimum Moisture Content (%)	26.0					
Compactive Effort	Standard					
Moisture Ratio (%)	101.0					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**99.0**					

Comments

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Report No: MAT:S25DS-10463/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 56
Project No.: 1091936.056
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: 16/02/2026

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Sample Details

Sample Location	E: 356914.052, N: 5781082.720, EL: 34.557, Lot: 5623, Layer: 6
Field Sample ID	1
Date Sampled	24/11/2025
Time Sampled	12:30
Source	Onsite
Material	CI; CLAY with gravel & sand, brown, medium plasticity.
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S25DS-10463

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	15.6	
Date Tested		26/11/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	12.5	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	40	
Plastic Limit (%)	AS 1289.3.2.1	14	
Plasticity Index (%)	AS 1289.3.3.1	26	
Date Tested		28/11/2025	

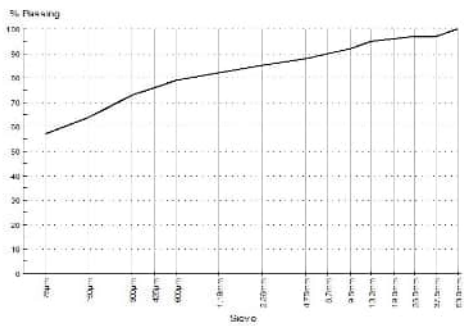
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 28/11/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
53.0mm	100	
37.5mm	97	
26.5mm	97	
19.0mm	96	
13.2mm	95	
9.5mm	92	
6.7mm	90	
4.75mm	88	
2.36mm	85	
1.18mm	82	
600µm	79	
425µm	76	
300µm	73	
150µm	64	
75µm	57	

Chart



Comments

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Appendix D Fill Certificate

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Meridian Green Estate
Stage 57
Lots 5701 to 5713, 5717 to 5724, and 5729 to 5739

REF: 1091936.057.R1.v1

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

DATE: 17 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 14 January 2026 and was completed 10 February 2026. No responsibility or liability will be accepted, and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD





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Project Manager

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Project Director

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