



REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

**Meridian Green Estate Clyde North
Stage 50B Lots 5043 to 5073**

Prepared for:

Greenridge Properties Pty Ltd

16 April 2025

Our Ref: 1091936.050B.v1

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Document Control

Title: Level One Inspection and testing Services.					
Date	Version	Description	Prepared by:	Reviewed by:	Authorised by
15 April 2025	1091936.050B.R1.V1	Final Report	RHB	RWMC	MCDM

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 50 of the Meridian Green Estate in Clyde North. The Stage 50 site is split into two stages called, Stage 50A and 50B, both stages were constructed at the same time by the earthwork's contractor. This report relates to the Stage 50B works only. Testing was undertaken between 17 August and 12 March 2025 for this stage of works.

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 50B is located across the southern section of Stage 50, the site is south of Guling Rise and west of Marquess Crescent in Clyde North. Stage 53 and the school site are within the same development area.

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

Figure 2.1: Extract from Nearmap



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
August 2023	17, 21
January 2025	16, 17, 20, 21, 22, 23, 24, 28, 29, 30
February 2025	4, 6, 7, 12, 13, 20, 21, 24, 26, 27
March 2025	5, 7, 12

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within Meridian Green Estate Stage 50B, 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 5043 to 5073.

2.5 Excluded Areas

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

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

3 Specifications

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

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

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

4 Inspection and Testing

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

4.1 Earthworks

The earthworks for the project comprised of the following phases:

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

4.2 Fill material

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

Samples were taken from the site comprising of local material used for fill was taken for geotechnical compliance testing during the works. The material compliance test results are summarised in **Table 4.1** The laboratory test certificate is attached in **Appendix C**.

Table 4.1: Compliance test Result Summary

Sample #	Particle Size Distribution (PSD)						Liquid Limit %	Plastic Limit %	Plasticity Index %	Source
	37.5 mm	13.2 mm	4.75 mm	1.18 mm	425 µm	0.75 µm				
S23DS-06926/1	100	100	99	94	85	73	71	21	50	On - Site
S25DS-00227/1	100	100	98	91	82	68	62	22	40	On - Site

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

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

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

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

Photographs of typical materials used during construction are shown below.

Photograph 4.1: Photographs of the material used on site



Photograph 1: Typical on-site clay material



Photograph 2: Silty Mottled Orange Brown Clay

4.3 Subgrade Assessment / Proof Roll

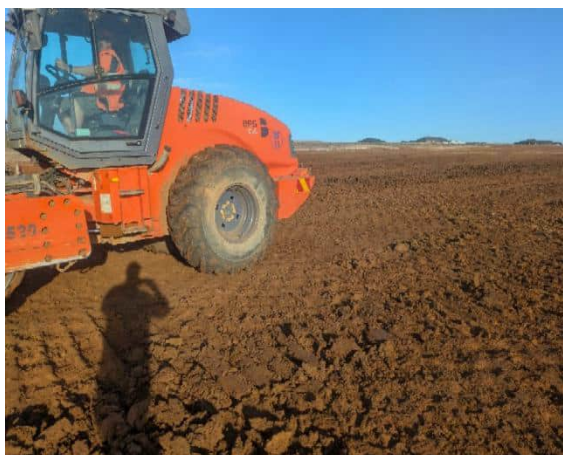
The Subgrade of the site was progressively assessed during the period Chadwick Geotechnics personnel were on site.

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

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

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

Photograph 4.2: Subgrade assessment photographs



Photograph 3: Subgrade preparation with Pad foot roller



Photograph 4: Subgrade assessment with a loaded water cart

4.4 Engineered Fill Construction

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

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

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

The following machinery was on site during earthworks.

Table 4.2: Earthworks plant on site

Equipment type	Model
Dozer	CAT D6 Dozer
Pad foot roller	CAT 15 Tonne CP56B
Water cart	1
Scraper	1
Dump trucks	Tandem
Excavator	1

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

Photograph 4.3: General Earthwork machinery and fill construction photographs



Photograph 5: Pad foot Roller compacting.



Photograph 6: Water cart moisture conditioning



Photograph 7: Bulldozer.



Photograph 8: Scraper

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;

Sixty-one (61) tests were performed during the filling process. Fourteen (14) 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 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 17 August 2023 and 12 March 2025. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

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

Chadwick Geotechnics Pty Ltd

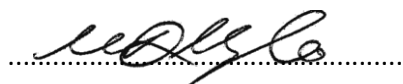
Report prepared by:

Authorised for Chadwick Geotechnics Pty Ltd by:



Robert Barden

Project Manager



Michael DiMeglio

Project Director

Report reviewed by:



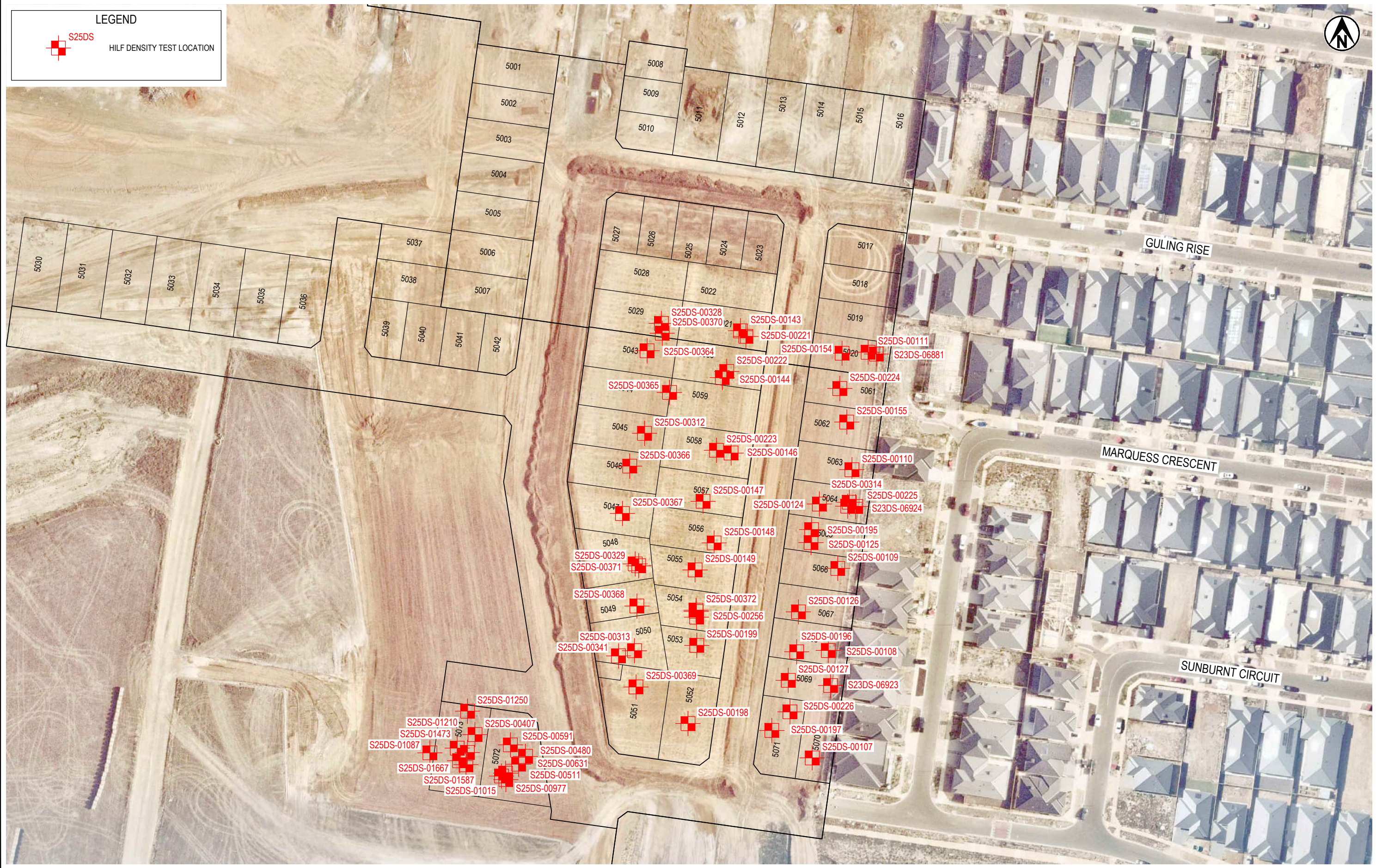
Robert McKenzie

Principal Geotechnical Engineer

RPEV Number: PE0005222

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Appendix A Test Location Plan



Appendix B Hilf Density Test Summary



Meridian Green, 1091936.050 Stage 50B

HILF Density Testing - Field Summary

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 9706 9431

www.chadwickgeotechnics.com.au



Report No	Sample No	Date	Test Number	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W23DS02005	S23DS-06881	17/08/2023	1	357229	5781397	36.589	100	0 wet	PASS	
HDR:W23DS02019	S23DS-06923	21/08/2023	1	357212	5781278	34.619	99.5	0 wet	PASS	
HDR:W23DS02019	S23DS-06924	21/08/2023	2	357221	5781342	35.994	99.5	0.5 dry	PASS	
HDR:W25DS00040	S25DS-00107	16/01/2025	1	357206	5781252	33.679	99	2.5 dry	PASS	
HDR:W25DS00040	S25DS-00108	16/01/2025	2	357212	5781291	34.318	98.5	2.5 dry	PASS	
HDR:W25DS00040	S25DS-00109	16/01/2025	3	357215	5781320	34.796	96	2 dry	PASS	
HDR:W25DS00040	S25DS-00110	16/01/2025	4	357220	5781355	35.745	100	2.5 dry	PASS	
HDR:W25DS00040	S25DS-00111	16/01/2025	5	357226	5781397	36.354	102	3 dry	PASS	
HDR:W25DS00046	S25DS-00124	17/01/2025	1	357208	5781343	35.835	96	3 dry	PASS	
HDR:W25DS00046	S25DS-00125	17/01/2025	2	357205	5781329	35.496	98	3 dry	PASS	
HDR:W25DS00046	S25DS-00126	17/01/2025	3	357201	5781304	34.807	98.5	3 dry	PASS	
HDR:W25DS00046	S25DS-00127	17/01/2025	4	357197	5781280	34.344	96.5	2 dry	PASS	
HDR:W25DS00052	S25DS-00143	20/01/2025	4	357180	5781405	38.089	105.5	4.5 dry	Fail	See Retest S25DS-00221
HDR:W25DS00052	S25DS-00144	20/01/2025	5	357174	5781388	37.934	107.5	4.5 dry	Fail	See Retest S25DS-00222
HDR:W25DS00052	S25DS-00146	20/01/2025	7	357177	5781361	37.524	102	4.5 dry	Fail	See Retest S25DS-00223
HDR:W25DS00052	S25DS-00147	20/01/2025	8	357167	5781344	37.123	96.5	2.5 dry	PASS	
HDR:W25DS00052	S25DS-00148	20/01/2025	9	357171	5781329	36.721	107	3 dry	PASS	
HDR:W25DS00052	S25DS-00149	20/01/2025	10	357164	5781319	36.49	101	2.5 dry	PASS	
HDR:W25DS00052	S25DS-00154	20/01/2025	13	357216	5781397	36.817	98	2.5 dry	PASS	
HDR:W25DS00052	S25DS-00155	20/01/2025	14	357218	5781372	36.39	104.5	2.5 dry	PASS	
HDR:W25DS00062	S25DS-00195	21/01/2025	1	357206	5781334	35.766	102	3 dry	PASS	
HDR:W25DS00062	S25DS-00196	21/01/2025	2	357200	5781290	34.756	96	2.5 dry	PASS	



Meridian Green, 1091936.050 Stage 50B

HILF Density Testing - Field Summary

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 9706 9431

www.chadwickgeotechnics.com.au



Report No	Sample No	Date	Test Number	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS00062	S25DS-00197	21/01/2025	3	357191	5781262	34.224	100	2.5 dry	PASS	
HDR:W25DS00062	S25DS-00198	21/01/2025	4	357161	5781264	34.592	102.5	2.5 dry	PASS	
HDR:W25DS00062	S25DS-00199	21/01/2025	5	357164	5781292	35.286	99	2.5 dry	PASS	
HDR:W25DS00071	S25DS-00221	22/01/2025	3	357182	5781403	38.056	104	2.5 dry	PASS	Retest of S25DS-00143
HDR:W25DS00071	S25DS-00222	22/01/2025	4	357175	5781390	37.976	97	2 dry	PASS	Retest of S25DS-00144
HDR:W25DS00071	S25DS-00223	22/01/2025	5	357172	5781362	37.605	98.5	3 dry	PASS	Retest of S25DS-00146
HDR:W25DS00071	S25DS-00224	22/01/2025	6	357216	5781384	36.775	105.5	3 dry	PASS	
HDR:W25DS00071	S25DS-00225	22/01/2025	7	357218	5781342	36.031	108.5	5 dry	Fail	See Retest S25DS-00314
HDR:W25DS00071	S25DS-00226	22/01/2025	8	357198	5781269	34.447	100.5	2.5 dry	PASS	
HDR:W25DS00083	S25DS-00256	23/01/2025	1	357164	5781303	35.808	92.5	2 dry	Fail	See Retest S25DS-00315
HDR:W25DS00093	S25DS-00312	24/01/2025	4	357146	5781368	38.293	100	2 dry	PASS	
HDR:W25DS00093	S25DS-00313	24/01/2025	5	357142	5781291	35.844	93.5	2 dry	Fail	See Retest S25DS-00341
HDR:W25DS00093	S25DS-00314	24/01/2025	6	357219	5781344	36.012	102	2.5 dry	PASS	Retest of S25DS-00225
HDR:W25DS00093	S25DS-00315	24/01/2025	7	357164	5781305	35.834	92.5	1.5 dry	Fail	Retest of S25DS-00256 See 00372
HDR:W25DS00097	S25DS-00328	28/01/2025	1	357152	5781408	38.95	97.5	4 dry	Fail	See Retest S25Ds-00370
HDR:W25DS00097	S25DS-00329	28/01/2025	2	357142	5781322	36.905	96	4.5 dry	Fail	See Retest S25DS-00371
HDR:W25DS00103	S25DS-00341	29/01/2025	1	357136	5781289	35.9	102.5	2.5 dry	PASS	Retest of S25DS-00313
HDR:W25DS00114	S25DS-00364	30/01/2025	3	357147	5781398	39.082	100.5	2.5 dry	PASS	
HDR:W25DS00114	S25DS-00365	30/01/2025	4	357155	5781383	38.86	103.5	0 dry	PASS	
HDR:W25DS00114	S25DS-00366	30/01/2025	5	357140	5781357	38.416	103.5	2.5 dry	PASS	
HDR:W25DS00114	S25DS-00367	30/01/2025	6	357138	5781340	37.666	98	2 dry	PASS	

[illegible]

Appendix C NATA endorsed laboratory reports



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

Ph: + 61 3 8796 7900
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Report No: HDR:W23DS02005

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Approved Signatory: M. Longfield
(Senior Technician)

Site Number: 12712
Date of Issue: 23/08/2023

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S23DS-06881				
Field Sample ID	1				
Date Tested	17/08/2023				
Time Tested	08:17				
E:	357228.713				
N:	5781396.615				
EL:	36.589				
Lot / Layer:	5022 / 1				

Field and Laboratory Data

Depth of Test (mm)	225				
Depth of Layer (mm)	250				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	22.2				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m ³)	1.97				
Field Dry Density (t/m ³)	1.61				
Peak Converted Wet Density (t/m ³)	1.97				
Optimum Moisture Content (%)	22.0				
Compactive Effort	Standard				
Moisture Ratio (%)	100.0				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	100.0				

Comments



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:W23DS02019

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Approved Signatory: M. Longfield
(Senior Technician)

Site Number: 12712
Date of Issue: 23/08/2023

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S23DS-06923	S23DS-06924	S23DS-06925			
Field Sample ID	1	2	3			
Client Sample ID	2	3	4			
Date Tested	21/08/2023	21/08/2023	21/08/2023			
Time Tested	14:57	15:02	15:09			
E:	357212.328	357221.294	357230.598			
N:	5781278.074	5781342.109	5781408.756			
EL:	34.619	35.994	36.910			
Lot / Layer:	5031 / 3	5026 / 3	5021 / 3			

Field and Laboratory Data

Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	20.3	21.1	29.4			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m ³)	2.01	1.95	1.97			
Field Dry Density (t/m ³)	1.67	1.61	1.52			
Peak Converted Wet Density (t/m ³)	2.02	1.97	1.98			
Optimum Moisture Content (%)	20.0	22.0	26.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	100.5	97.0	112.0			
Moisture Variation (%)	0.0	0.5 dry	3.0 wet			
Hilf Density Ratio (%)	99.5	99.5	99.5			

Comments



Dandenong South
ACN 143 009 330
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DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
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Report No: HDR:W25DS00040

Issue No: 1

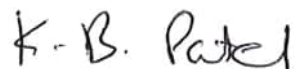
HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Site Number: 12712

Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 22/01/2025

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00107	S25DS-00108	S25DS-00109	S25DS-00110	S25DS-00111
Field Sample ID	1	2	3	4	5
Date Tested	16/01/2025	16/01/2025	16/01/2025	16/01/2025	16/01/2025
Time Tested	08:00	08:15	08:25	08:35	08:45
E:	357205.778	357211.515	357214.909	357219.964	357225.748
N:	5781252.183	5781290.596	5781319.951	5781355.245	5781397.258
EL:	33.679	34.318	34.796	35.745	36.354
Lot / Layer	5070 / 1	5068 / 1	5066 / 1	5063 / 1	5020 / 1

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	25.3	13.2	12.4	15.4	11.7
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.84	1.98	1.96	1.97	1.98
Field Dry Density (t/m ³)	1.47	1.75	1.75	1.71	1.77
Peak Converted Wet Density (t/m ³)	1.86	2.02	2.04	1.97	1.95
Optimum Moisture Content (%)	28.0	15.5	14.5	18.0	14.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	91.0	84.0	85.5	86.0	80.0
Moisture Variation (%)	2.5 dry	2.5 dry	2.0 dry	2.5 dry	3.0 dry
Hilf Density Ratio (%)	99.0	98.5	96.0	100.0	102.0

Comments



Dandenong South
ACN 143 009 330
25 Metcalf Street
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Report No: HDR:W25DS00040

Issue No: 1

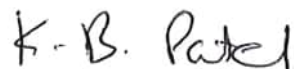
HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Site Number: 12712

Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 22/01/2025

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Sample Details

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

Sample Data

Sample ID	S25DS-00112	S25DS-00113	S25DS-00114	S25DS-00115	S25DS-00116
Field Sample ID	6	7	8	9	10
Date Tested	16/01/2025	16/01/2025	16/01/2025	16/01/2025	16/01/2025
Time Tested	08:50	08:55	09:05	14:20	14:30
E:	357182.491	357193.755	357223.376	357220.526	357215.775
N:	5781468.611	5781467.411	5781465.149	5781434.885	5781408.283
EL:	38.408	37.786	36.783	36.939	36.933
Lot / Layer	5012 / 1	5013 / 2	5015 / 2	5017 / 2	5019 / 2

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	10.3	22.1	15.4	15.7	17.0
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	2.05	1.91	1.97	1.90	1.99
Field Dry Density (t/m ³)	1.86	1.56	1.71	1.64	1.70
Peak Converted Wet Density (t/m ³)	2.07	1.83	1.96	1.93	1.97
Optimum Moisture Content (%)	10.5	26.5	18.5	19.0	20.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	96.0	83.0	83.5	83.5	86.0
Moisture Variation (%)	0.5 dry	4.5 dry	3.0 dry	3.0 dry	2.5 dry
Hilf Density Ratio (%)	99.0	104.5	100.5	98.0	101.0

Comments



Dandenong South
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Report No: HDR:W25DS00046

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 22/01/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00124	S25DS-00125	S25DS-00126	S25DS-00127	S25DS-00128	S25DS-00129
Field Sample ID	1	2	3	4	5	6
Date Tested	17/01/2025	17/01/2025	17/01/2025	17/01/2025	17/01/2025	17/01/2025
Time Tested	08:00	08:10	08:20	08:30	14:00	14:10
E:	357208.319	357205.340	357200.824	357197.209	357219.021	357215.959
N:	5781342.970	5781329.183	5781304.407	5781279.914	5781423.142	5781407.521
EL:	35.835	35.496	34.807	34.344	36.169	36.926
Lot / Layer:	5064 / 2	5065 / 2	5067 / 2	5069 / 2	5018 / 3	5019 / 3

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150	150
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 (%)	13.5	14.7	11.5	10.0	16.4	16.1
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.94	2.01	1.99	1.99	1.98	2.01
Field Dry Density (t/m ³)	1.71	1.75	1.79	1.81	1.70	1.73
Peak Converted Wet Density (t/m ³)	2.02	2.05	2.03	2.07	2.02	2.03
Optimum Moisture Content (%)	16.5	17.5	14.5	12.0	18.5	19.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	82.5	83.5	79.5	82.0	87.5	85.0
Moisture Variation (%)	3.0 dry	3.0 dry	3.0 dry	2.0 dry	2.0 dry	3.0 dry
Hilf Density Ratio (%)	96.0	98.0	98.5	96.5	98.0	99.0

Comments



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Report No: HDR:W25DS00052

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 22/01/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00140	S25DS-00141	S25DS-00142	S25DS-00143	S25DS-00144	S25DS-00145	S25DS-00146
Field Sample ID	1	2	3	4	5	6	7
Date Tested	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025
Time Tested	08:25	08:35	08:40	08:45	08:50	08:55	09:00
E:	357174.025	357185.318	357182.839	357180.094	357173.577	357173.577	357176.740
N:	5781441.800	5781439.946	5781417.342	5781404.921	5781388.193	5781376.424	5781861.214
EL:	38.377	38.085	38.134	38.089	37.934	37.758	37.524
Lot / Layer:	5024 / 1	5023 / 1	5022 / 1	5021 / 1	5060 / 1	4054 / 1	5058 / 1

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0	0
Field Moisture Content (%)	23.5	19.1	21.7	23.6	19.3	25.9	20.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.91	1.98	1.87	1.91	1.99	1.86	1.78
Field Dry Density (t/m ³)	1.54	1.66	1.53	1.55	1.67	1.48	1.48
Peak Converted Wet Density (t/m ³)	1.83	1.94	1.80	1.82	1.85	1.83	1.75
Optimum Moisture Content (%)	28.5	22.0	27.5	28.0	24.0	29.0	25.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	82.5	88.0	79.5	84.0	80.5	89.0	81.5
Moisture Variation (%)	4.5 dry	2.5 dry	5.5 dry	4.5 dry	4.5 dry	3.0 dry	4.5 dry
Hilf Density Ratio (%)	104.5	102.0	103.5	105.5	107.5	101.5	102.0

Comments



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Report No: HDR:W25DS00052

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 22/01/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00147	S25DS-00148	S25DS-00149	S25DS-00152	S25DS-00153	S25DS-00154	S25DS-00155
Field Sample ID	8	9	10	11	12	13	14
Date Tested	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025	20/01/2025
Time Tested	09:10	09:20	09:30	14:00	15:15	15:25	15:35
E:	357166.708	357170.673	357163.876	357194.919	357231.197	357216.434	357218.119
N:	5781343.948	5781329.070	5781319.409	5781467.703	5781433.905	5781396.894	5781372.280
EL:	37.123	36.721	36.490	37.720	36.878	36.817	36.390
Lot / Layer:	5057 / 1	5056 / 1	5055 / 1	5013 / 2	5017 / 4	5020 / 4	5062 / 4
				Retest of S25DS-00113			

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0	0
Field Moisture Content (%)	22.4	19.9	25.8	22.9	10.9	16.7	13.7
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.80	1.84	1.84	1.92	1.92	1.97	2.00
Field Dry Density (t/m ³)	1.47	1.53	1.46	1.56	1.73	1.69	1.76
Peak Converted Wet Density (t/m ³)	1.87	1.72	1.82	1.91	2.02	2.02	1.91
Optimum Moisture Content (%)	25.0	22.5	28.5	25.5	13.0	19.0	16.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	90.0	87.5	90.0	89.5	83.5	87.5	86.0
Moisture Variation (%)	2.5 dry	3.0 dry	2.5 dry	2.5 dry	2.0 dry	2.5 dry	2.5 dry
Hilf Density Ratio (%)	96.5	107.0	101.0	100.5	95.0	98.0	104.5

Comments



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Report No: HDR:W25DS00062

Issue No: 1

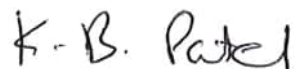
HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Site Number: 12712

Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 28/01/2025

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Sample Details

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

Sample Data

Sample ID	S25DS-00195	S25DS-00196	S25DS-00197	S25DS-00198	S25DS-00199
Field Sample ID	1	2	3	4	5
Date Tested	21/01/2025	21/01/2025	21/01/2025	21/01/2025	21/01/2025
Time Tested	08:45	09:00	09:05	09:50	10:00
E:	357205.556	357200.207	357191.310	357161.328	357164.470
N:	5781333.814	5781290.137	5781262.002	5781264.455	5781292.434
EL:	35.766	34.756	34.224	34.592	35.286
Lot / Layer:	5065 / 4	5068 / 4	5071 / 4	5052 / 1	5053 / 1

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	14.1	15.2	14.8	22.9	15.0
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	2.06	1.92	2.04	1.95	1.98
Field Dry Density (t/m ³)	1.80	1.66	1.78	1.58	1.73
Peak Converted Wet Density (t/m ³)	2.01	1.99	2.04	1.90	2.00
Optimum Moisture Content (%)	17.0	17.5	17.5	25.5	17.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	83.5	86.5	84.5	90.5	84.5
Moisture Variation (%)	3.0 dry	2.5 dry	2.5 dry	2.5 dry	2.5 dry
Hilf Density Ratio (%)	102.0	96.0	100.0	102.5	99.0

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W25DS00071

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 28/01/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00219	S25DS-00220	S25DS-00221	S25DS-00222
Field Sample ID	1	2	3	4
Date Tested	22/01/2025	22/01/2025	22/01/2025	22/01/2025
Time Tested	12:00	12:10	12:20	12:30
E:	357177.351	357178.926	357182.031	357175.192
N:	5781443.160	5781418.855	5781402.930	5781390.406
EL:	38.295	38.195	38.056	37.976
Lot / Layer:	5024 / -	5022 / 1	5021 / 1	5060 / 1
	Retest of S25DS-00140	Retest of S25DS-00142	Retest of S25DS-00143	Retest of S25DS-00144

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125
Depth of Layer (mm)	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	24.5	22.8	20.6	23.7
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.87	1.87	1.90	1.84
Field Dry Density (t/m ³)	1.50	1.52	1.58	1.49
Peak Converted Wet Density (t/m ³)	1.80	1.82	1.83	1.90
Optimum Moisture Content (%)	29.5	27.5	23.5	26.0
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	83.5	82.5	88.5	91.0
Moisture Variation (%)	4.5 dry	4.5 dry	2.5 dry	2.0 dry
Hilf Density Ratio (%)	103.5	102.5	104.0	97.0

Comments



Dandenong South
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Report No: HDR:W25DS00071

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 28/01/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00223	S25DS-00224	S25DS-00225	S25DS-00226
Field Sample ID	5	6	7	8
Date Tested	22/01/2025	22/01/2025	22/01/2025	22/01/2025
Time Tested	12:40	13:00	13:10	13:20
E:	357171.513	357215.627	357218.475	357197.799
N:	5781362.190	5781384.283	5781342.205	5781268.663
EL:	37.605	36.775	36.031	34.447
Lot / Layer:	5058 / 1	5061 / 5	5064 / 5	5071 / 5
	Retest of S25DS-00146			

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125
Depth of Layer (mm)	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	22.7	26.9	24.9	23.8
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/m ³)	1.85	1.94	1.94	1.86
Field Dry Density (t/m ³)	1.51	1.52	1.55	1.50
Peak Converted Wet Density (t/m ³)	1.88	1.83	1.79	1.85
Optimum Moisture Content (%)	26.0	30.0	30.0	26.5
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	87.5	90.0	83.5	90.0
Moisture Variation (%)	3.0 dry	3.0 dry	5.0 dry	2.5 dry
Hilf Density Ratio (%)	98.5	105.5	108.5	100.5

Comments



Dandenong South
ACN 143 009 330
25 Metcalf Street
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Ph: + 61 3 8796 7900
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Report No: HDR:W25DS00083

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Date of Issue: 3/02/2025
Approved Signatory: Krushik Patel
(Senior Geotechnician)
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Sample Details

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

Sample Data

Sample ID	S25DS-00256
Field Sample ID	1
Date Tested	23/01/2025
Time Tested	09:30
E:	357164.397
N:	5781302.525
EL:	35.808
Lot / Layer:	5054 / 2

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	15.6
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.85
Field Dry Density (t/m ³)	1.60
Peak Converted Wet Density (t/m ³)	2.00
Optimum Moisture Content (%)	17.5
Compactive Effort	Standard
Moisture Ratio (%)	88.5
Moisture Variation (%)	2.0 dry
Hilf Density Ratio (%)	92.5

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W25DS00093

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 31/01/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00309	S25DS-00310	S25DS-00311	S25DS-00312	S25DS-00313	S25DS-00314	S25DS-00315
Field Sample ID	1	2	3	4	5	6	7
Date Tested	24/01/2025	24/01/2025	24/01/2025	24/01/2025	24/01/2025	24/01/2025	24/01/2025
Time Tested	07:50	08:00	08:30	08:40	08:50	09:00	11:00
E:	357174.978	357183.220	357151.722	357145.783	357142.174	357219.014	357164.285
N:	5781442.864	5781416.236	5781419.564	5781368.252	5781290.518	5781343.612	5781304.577
EL:	38.300	38.151	38.949	38.293	35.844	36.012	35.834
Lot / Layer:	5024 / 1	5022 / 1	5028 / 1	5045 / 1	5050 / 1	5064 / 5	5054 / 2
	Retest of S25DS-00219	Retest of S25DS-00220				Retest of S25DS-00225	Retest of S25DS-00256

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150	150	150
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0	0
Field Moisture Content (%)	23.8	22.9	21.2	20.9	19.0	23.8	17.9
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	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.95	1.84	1.80	1.96	1.85	1.96	1.84
Field Dry Density (t/m ³)	1.57	1.49	1.49	1.62	1.55	1.58	1.56
Peak Converted Wet Density (t/m ³)	1.92	1.90	1.82	1.96	1.97	1.92	1.99
Optimum Moisture Content (%)	26.5	25.5	26.0	23.0	21.5	26.5	19.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	90.5	89.5	81.5	90.5	89.5	90.5	91.5
Moisture Variation (%)	2.5 dry	2.5 dry	4.5 dry	2.0 dry	2.0 dry	2.5 dry	1.5 dry
Hilf Density Ratio (%)	101.5	96.5	99.0	100.0	93.5	102.0	92.5

Comments



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Report No: HDR:W25DS00097

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 3/02/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00328	S25DS-00329	
Field Sample ID	1	2	
Date Tested	28/01/2025	28/01/2025	
Time Tested		08:00	
E:	357151.811	357142.439	
N:	5781407.575	5781321.554	
EL:	38.950	36.905	
Lot / Layer:	5029 / -	5048 / -	

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 (%)	16.1	14.9	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m ³)	1.88	1.86	
Field Dry Density (t/m ³)	1.62	1.62	
Peak Converted Wet Density (t/m ³)	1.93	1.94	
Optimum Moisture Content (%)	20.5	19.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	78.5	77.0	
Moisture Variation (%)	4.0 dry	4.5 dry	
Hilf Density Ratio (%)	97.5	96.0	

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W25DS00103

Issue No: 1

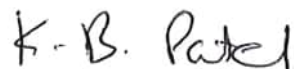
HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Site Number: 12712

Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 3/02/2025

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Sample Details

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

Sample Data

Sample ID	S25DS-00341	S25DS-00342	
Field Sample ID	1	2	
Date Tested	29/01/2025	29/01/2025	
Time Tested	13:10	13:00	
E:	357136.479	357151.712	
N:	5781288.670	5781418.600	
EL:	35.900	38.939	
Lot / Layer:	5050 / 1	5028 / 1	
	Retest of S25DS-00313	Retest of S25DS-00311	

Field and Laboratory Data

Depth of Test (mm)	125	125	
Depth of Layer (mm)	150	150	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	27.0	26.5	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m ³)	1.91	1.87	
Field Dry Density (t/m ³)	1.50	1.48	
Peak Converted Wet Density (t/m ³)	1.86	1.86	
Optimum Moisture Content (%)	29.5	29.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	91.5	91.0	
Moisture Variation (%)	2.5 dry	2.5 dry	
Hilf Density Ratio (%)	102.5	100.5	

Comments



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Report No: HDR:W25DS00114

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 4/02/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00362	S25DS-00363	S25DS-00364	S25DS-00365	S25DS-00366	S25DS-00367
Field Sample ID	1	2	3	4	5	6
Date Tested	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025
Time Tested	11:00	11:10	11:20	11:30	11:40	11:50
E:	357148.975	357160.961	357146.686	357154.722	357140.479	357137.883
N:	5781444.532	5781443.636	5781397.774	5781382.890	5781356.541	5781339.586
EL:	39.168	38.794	39.082	38.860	38.416	37.666
Lot / Layer:	5026 / -	5025 / -	5043 / 2	5044 / 2	5046 / 2	5047 / 2

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	125
Depth of Layer (mm)	150	150	150	150	150	150
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 (%)	27.2	24.1	23.1	28.2	28.8	24.8
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/m ³)	1.95	1.90	1.90	1.95	1.89	1.86
Field Dry Density (t/m ³)	1.53	1.53	1.54	1.52	1.47	1.49
Peak Converted Wet Density (t/m ³)	1.92	1.89	1.88	1.89	1.82	1.90
Optimum Moisture Content (%)	27.5	26.5	25.5	28.5	31.5	27.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	99.5	90.5	90.0	99.5	91.5	91.5
Moisture Variation (%)	0.0	2.5 dry	2.5 dry	0.0	2.5 dry	2.0 dry
Hilf Density Ratio (%)	102.0	100.5	100.5	103.5	103.5	98.0

Comments



Dandenong South
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Report No: HDR:W25DS00114

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 4/02/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00368	S25DS-00369	S25DS-00370	S25DS-00371	S25DS-00372	
Field Sample ID	7	8	9	10	11	
Date Tested	30/01/2025	30/01/2025	30/01/2025	30/01/2025	30/01/2025	
Time Tested	12:00	12:10	12:20	12:30	12:40	
E:	357143.040	357142.717	357152.110	357143.693	357164.200	
N:	5781306.496	5781277.564	5781404.060	5781320.898	5781305.017	
EL:	36.434	35.267	39.144	37.054	35.800	
Lot / Layer:	5049 / 2	5051 / 2	5025 / -	5048 / -	5054 / 2	
			Retest of S25DS-00328	Retest of S25DS-00329	Retest of S25DS-00315	

Field and Laboratory Data

Depth of Test (mm)	125	125	125	125	125	
Depth of Layer (mm)	150	150	150	150	150	
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	
Oversize Wet (%)	0	0	0	0	0	
Field Moisture Content (%)	25.0	26.7	27.9	27.5	27.0	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m ³)	1.92	1.86	1.89	1.86	1.90	
Field Dry Density (t/m ³)	1.54	1.47	1.47	1.46	1.50	
Peak Converted Wet Density (t/m ³)	1.84	1.84	1.92	1.85	1.84	
Optimum Moisture Content (%)	27.5	29.5	28.0	30.0	29.5	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Ratio (%)	91.0	90.5	100.0	91.5	91.0	
Moisture Variation (%)	2.5 dry	2.5 dry	0.0	2.5 dry	2.5 dry	
Hilf Density Ratio (%)	104.0	101.0	98.5	100.5	103.0	

Comments



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Report No: HDR:W25DS00129

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 27/02/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00407
Field Sample ID	1
Date Tested	4/02/2025
E:	357085.137
N:	5781260.528
EL:	34.559
Lot / Layer:	5073 / 1

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	17.6
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.96
Field Dry Density (t/m ³)	1.67
Peak Converted Wet Density (t/m ³)	2.00
Optimum Moisture Content (%)	20.0
Compactive Effort	Standard
Moisture Ratio (%)	89.0
Moisture Variation (%)	2.0 dry
Hilf Density Ratio (%)	98.0

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W25DS00156

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 1/03/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00480
Field Sample ID	1
Date Tested	6/02/2025
Time Tested	10:50
E:	357103.1826
N:	5781252.753
EL:	34.568
Lot / Layer:	5072 / 2

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	12.8
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.96
Field Dry Density (t/m ³)	1.74
Peak Converted Wet Density (t/m ³)	2.03
Optimum Moisture Content (%)	15.5
Compactive Effort	Standard
Moisture Ratio (%)	83.5
Moisture Variation (%)	2.5 dry
Hilf Density Ratio (%)	96.5

Comments



Dandenong South
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Report No: HDR:W25DS00166

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 27/02/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00511
Field Sample ID	1
Date Tested	7/02/2025
Time Tested	12:15
E:	357096.056
N:	5781246.730
EL:	34.586
Lot / Layer:	5072 / 3

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	27.7
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.83
Field Dry Density (t/m ³)	1.44
Peak Converted Wet Density (t/m ³)	1.86
Optimum Moisture Content (%)	30.0
Compactive Effort	Standard
Moisture Ratio (%)	93.0
Moisture Variation (%)	2.0 dry
Hilf Density Ratio (%)	98.5

Comments



Dandenong South
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Report No: HDR:W25DS00199

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00591
Field Sample ID	1
Date Tested	12/02/2025
Time Tested	11:00
E:	357097.799
N:	5781256.850
EL:	34.985
Lot / Layer:	5072 / 3

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	24.8
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.86
Field Dry Density (t/m ³)	1.49
Peak Converted Wet Density (t/m ³)	1.83
Optimum Moisture Content (%)	30.0
Compactive Effort	Standard
Moisture Ratio (%)	82.0
Moisture Variation (%)	5.0 dry
Hilf Density Ratio (%)	101.5

Comments



Dandenong South
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25 Metcalf Street
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Report No: HDR:W25DS00219

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-00631
Field Sample ID	1
Date Tested	13/02/2025
E:	357100.721
N:	5781249.923
EL:	24.784
Lot / Layer:	5072 / 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 Wet Density (t/m ³)	1.91
Peak Converted Wet Density (t/m ³)	1.84
Compactive Effort	Standard
Moisture Variation (%)	3.0 dry
Hilf Density Ratio (%)	103.5

Comments



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Report No: HDR:W25DS00292

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-00977
Field Sample ID	1
Date Tested	20/02/2025
Time Tested	11:55
E:	357096.187
N:	5781244.431
EL:	34.945
Lot / Layer:	5072 / 5

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	29.2
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.85
Field Dry Density (t/m ³)	1.43
Peak Converted Wet Density (t/m ³)	1.97
Optimum Moisture Content (%)	30.5
Compactive Effort	Standard
Moisture Ratio (%)	95.0
Moisture Variation (%)	1.5 dry
Hilf Density Ratio (%)	94.0

Comments



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Report No: HDR:W25DS00305

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
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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	S25DS-01015
Field Sample ID	1
Date Tested	21/02/2025
Time Tested	14:10
E:	357044.608
N:	5781245.678
EL:	34.980
Lot / Layer:	5072 / -
	Retest of S25DS-00977

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	27.1
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.93
Field Dry Density (t/m ³)	1.52
Peak Converted Wet Density (t/m ³)	1.93
Optimum Moisture Content (%)	27.0
Compactive Effort	Standard
Moisture Ratio (%)	100.5
Moisture Variation (%)	0.0
Hilf Density Ratio (%)	100.0

Comments



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Report No: HDR:W25DS00320

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
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Sample Details

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

Sample Data

Sample ID	S25DS-01087
Field Sample ID	1
Date Tested	24/02/2025
Time Tested	13:00
E:	357069
N:	5781254
EL:	-
Lot / Layer:	- / -

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	25.5
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.74
Field Dry Density (t/m ³)	1.38
Peak Converted Wet Density (t/m ³)	1.77
Optimum Moisture Content (%)	30.5
Compactive Effort	Standard
Moisture Ratio (%)	83.5
Moisture Variation (%)	5.0 dry
Hilf Density Ratio (%)	98.5

Comments



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Report No: HDR:W25DS00346

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

K. B. Patel

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel
(Senior Geotechnician)
Date of Issue: 13/03/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-01210
Field Sample ID	1
Date Tested	26/02/2025
Time Tested	10:56
E:	357082.421
N:	578124.127
EL:	35.417
Lot / Layer:	5073 / 1

Field and Laboratory Data

Depth of Test (mm)	125
Depth of Layer (mm)	150
AS Sieve Size (mm)	19.0
Oversize Wet (%)	0
Field Moisture Content (%)	25.9
Field Moisture Content Method	AS 1289.2.1.1
Field Wet Density (t/m ³)	1.87
Field Dry Density (t/m ³)	1.49
Peak Converted Wet Density (t/m ³)	1.78
Optimum Moisture Content (%)	29.5
Compactive Effort	Standard
Moisture Ratio (%)	88.0
Moisture Variation (%)	3.5 dry
Hilf Density Ratio (%)	105.0

Comments



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Report No: HDR:W25DS00362

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



Accredited for compliance with ISO/IEC 17025
– Testing

Accreditation Number: 12719
Site Number: 12712
Date of Issue: 14/03/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Approved Signatory: J. Lamont
(Discipline Manager - CMT)

Sample Details

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

Sample Data

Sample ID	S25DS-01250				
Field Sample ID	1				
Date Tested	27/02/2025				
Time Tested	14:10				
E:	357082.461				
N:	5781268.893				
EL:	35.803				
Lot / Layer:	5073 / 8				

Field and Laboratory Data

Depth of Test (mm)	125				
Depth of Layer (mm)	150				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	26.7				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m ³)	1.92				
Field Dry Density (t/m ³)	1.51				
Peak Converted Wet Density (t/m ³)	1.88				
Optimum Moisture Content (%)	28.0				
Compactive Effort	Standard				
Moisture Ratio (%)	95.0				
Moisture Variation (%)	1.5 dry				
Hilf Density Ratio (%)	102.0				

Comments



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Report No: HDR:W25DS00417

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

Accreditation Number: 12719
Site Number: 12712
Date of Issue: 14/03/2025
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Approved Signatory: J. Lamont
(Discipline Manager - CMT)

Sample Details

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

Sample Data

Sample ID	S25DS-01473				
Field Sample ID	1				
Date Tested	5/03/2025				
Time Tested	10:45				
E:	357078.760				
N:	5781255.674				
EL:	25.786				
Lot / Layer:	5073 / -				
	Retest				

Field and Laboratory Data

Depth of Test (mm)	125				
Depth of Layer (mm)	150				
AS Sieve Size (mm)	19.0				
Field Moisture Content (%)	31.0				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m ³)	1.92				
Field Dry Density (t/m ³)	1.46				
Peak Converted Wet Density (t/m ³)	1.91				
Optimum Moisture Content (%)	28.5				
Compactive Effort	Standard				
Moisture Ratio (%)	109.0				
Moisture Variation (%)	2.5 wet				
Hilf Density Ratio (%)	100.5				

Comments



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Report No: HDR:W25DS00432

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

Accreditation Number: 12719
Approved Signatory: J. Lamont
(Discipline Manager - CMT)

Site Number: 12712
Date of Issue: 14/03/2025
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S25DS-01587				
Field Sample ID	1				
Date Tested	7/03/2025				
E:	357081.899				
N:	5781249.748				
EL:	35.961				
Lot / Layer:	5073 / 8				

Field and Laboratory Data

Depth of Test (mm)	125				
Depth of Layer (mm)	150				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	19.3				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m ³)	1.82				
Field Dry Density (t/m ³)	1.53				
Peak Converted Wet Density (t/m ³)	1.94				
Optimum Moisture Content (%)	22.0				
Compactive Effort	Standard				
Moisture Ratio (%)	87.0				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	94.0				

Comments



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Report No: HDR:W25DS00454

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

Accreditation Number: 12719
Site Number: 12712
Date of Issue: 14/03/2025
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Approved Signatory: J. Lamont
(Discipline Manager - CMT)

Sample Details

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

Sample Data

Sample ID	S25DS-01667				
Field Sample ID	1				
Date Tested	12/03/2025				
E:	357079.640				
N:	5781251.175				
EL:	35.946				
Lot / Layer:	5073 / 8				
	Retest of S25DS-01587				

Field and Laboratory Data

Depth of Test (mm)	125				
Depth of Layer (mm)	150				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Moisture Content (%)	19.0				
Field Moisture Content Method	AS 1289.2.1.1				
Field Wet Density (t/m ³)	1.89				
Field Dry Density (t/m ³)	1.59				
Peak Converted Wet Density (t/m ³)	1.98				
Optimum Moisture Content (%)	20.0				
Compactive Effort	Standard				
Moisture Ratio (%)	96.0				
Moisture Variation (%)	1.0 dry				
Hilf Density Ratio (%)	95.0				

Comments

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

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. Longfield
 (Senior Technician)
 Date of Issue: 15/09/2023

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Sample Details

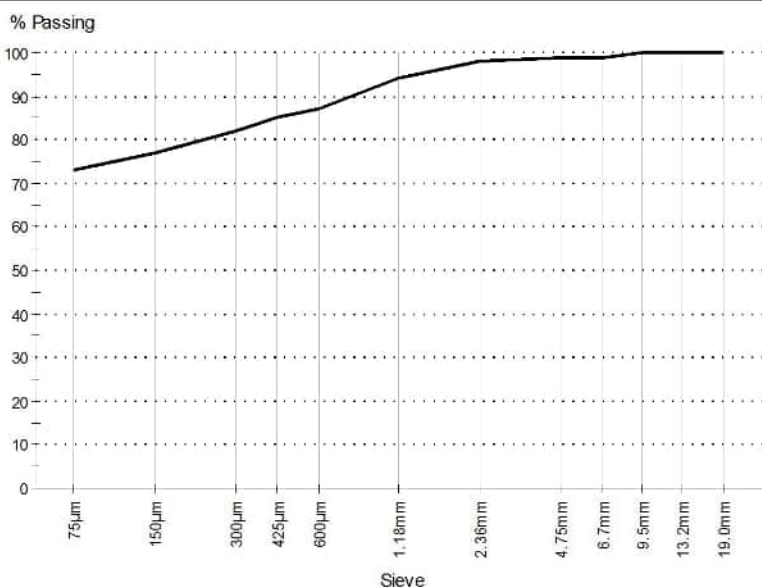
Sample Location E: 357230.598, N: 5781408.756, EL: 36.910, Lot: 5021, Layer: 3
Field Sample ID 1
Date Sampled 21/08/2023
Time Sampled 15:09
Source Onsite
Material Silty Clay
Specification AS Grading
Sampling Method AS1289.1.2.1 Clause 6.4 (b)
Sample ID S23DS-06926

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	28.1	
Sample History	AS 1289.1.1	Oven-dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	18.5	
Mould Length (mm)		250	
Crumbling		No	

Particle Size Distribution

AS 1289.3.6.1



Drying By: Oven
Date Tested: 29/08/2023

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	100	
9.5mm	100	
6.7mm	99	
4.75mm	99	
2.36mm	98	
1.18mm	94	
600µm	87	
425µm	85	
300µm	82	
150µm	77	
75µm	73	

Comments

N/A



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Report No: MAT:S23DS-06926/1

Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.:
TRN:

CG Request No.:
Lot No.:



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– Testing

Accreditation Number: 12719
Approved Signatory: M. Longfield
(Senior Technician)

Site Number: 12712
Date of Issue: 15/09/2023

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Other Test Results

Description	Method	Result	Limits
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	71	
Plastic Limit (%)	AS 1289.3.2.1	21	
Plasticity Index (%)	AS 1289.3.3.1	50	
Date Tested		30/08/2023	

Comments

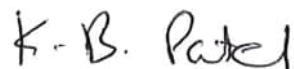
N/A

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Green Estate, Stage 50
Project No.: 1091936.050

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 – Testing

Accreditation Number: 12719 Approved Signatory: Krushik Patel
 (Senior Geotechnician)
 Site Number: 12712 Date of Issue: 5/02/2025
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Sample Details

Sample Location E: 357218.475, N: 5781342.205, EL: 36.031, Lot: 5064, Layer: 5
Field Sample ID 1
Date Sampled 22/01/2025
Time Sampled 13:10
Source Onsite
Material Clay
Specification AS Grading
Sampling Method AS1289.1.2.1 Clause 6.4 (b)
Sample ID S25DS-00227

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	19.5	
Date Tested		23/01/2025	
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	62	
Plastic Limit (%)	AS 1289.3.2.1	22	
Plasticity Index (%)	AS 1289.3.3.1	40	
Date Tested		28/01/2025	

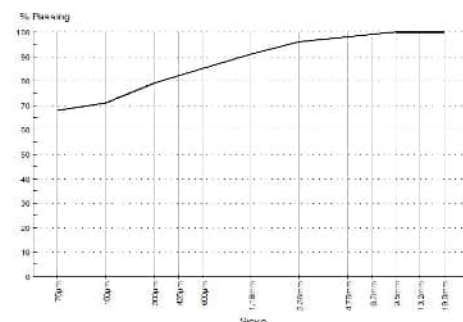
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 28/01/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	100	
9.5mm	100	
6.7mm	99	
4.75mm	98	
2.36mm	96	
1.18mm	91	
600µm	85	
425µm	82	
300µm	79	
150µm	71	
75µm	68	

Chart



Comments

N/A

Appendix D Fill Certificate



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Meridian Green Estate
Stage 50B
Lots 5043 to 5073

REF: 1091936.050B.R1.v1

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

DATE: 16 April 2025

SUMMARY

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

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

LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection (17 August 2023 and was completed 17 March 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

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