CHADWICK GEOTECHNICS

REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

Riverfield Square Estate Stage 37
Lots 3701 to lot 3773

Prepared for:

Greenridge Properties Pty Ltd

October 2026

Our Ref: 1091938.037.v1

25 Metcalf Street, Dandenong South, VIC 3175, Melbourne, Australia
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Document Control

Title:	Level One Inspection and Testing Services.				
Date	**Version**	**Description**	**Prepared by:**	**Reviewed by:**	**Authorised by**
October 2026	1	Final	R. Barden	D. Glover	M. Di Meglio

Distribution:

Greenridge Properties Pty Ltd	1 PDF copy
Beveridge Williams & Co Pty Ltd	1 PDF copy
Chadwick Geotechnics Pty Ltd (File)	1 copy

1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) was engaged by Greenridge Properties Pty Ltd to provide Level 1 Geotechnical Inspection and Testing Authority (GITA) services for the earthworks conducted within Stage 37 of the Riverfield Square Estate in Clyde North between 16 February 2026 and 4 August 2026.

This report provides a summary of the earthworks carried out within Stage 37 of the Riverfield Estate development.

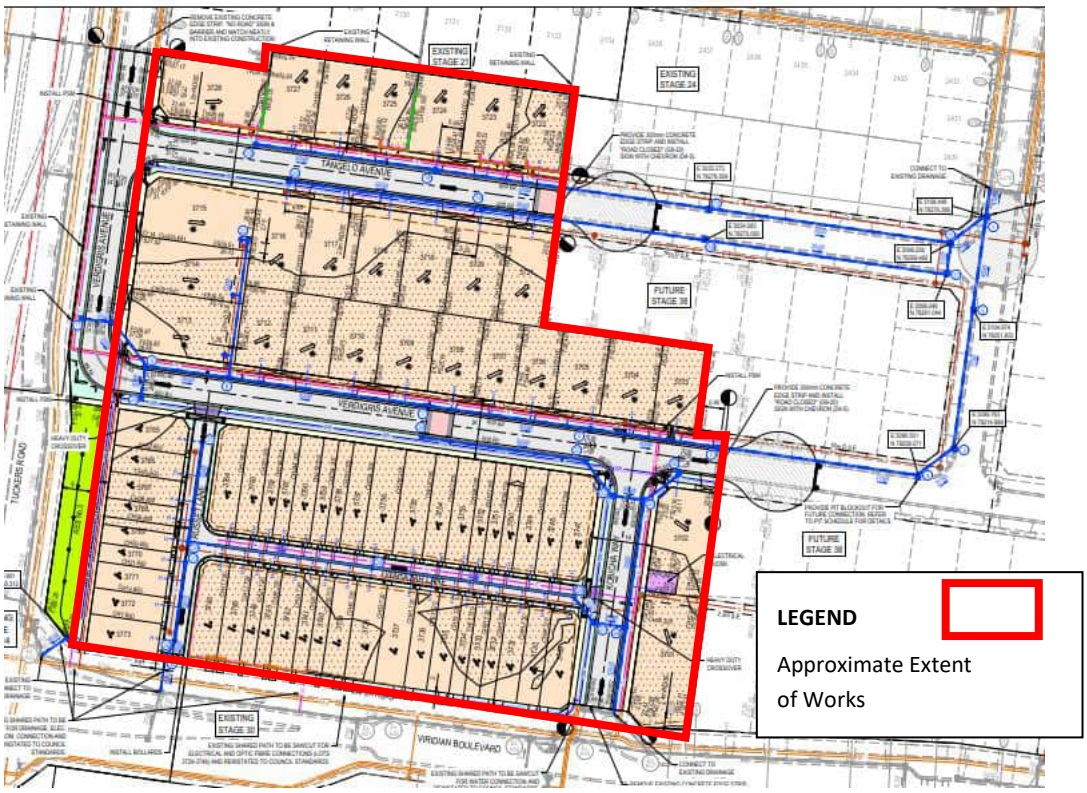
2 Project details

2.1 Location

Stage 37 is located to the east of Tuckers Road and west of Stage 38.

The stage 37 site area is shown on the Site Plan in Appendix A and within Figure 2.1 below, is an extract from the design drawings.

Figure 2.1: Site area (extract from Beveridge Williams reference # 2101578, drawing number 10)



2.2 Roles and abbreviations

The organisations involved with the project and their roles are presented in Table 2.1

Table 2.1: Project roles

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

Chadwick Geotechnics undertook the field density testing, and the compaction laboratory testing was conducted in our NATA accredited laboratory in Dandenong South (NATA No.12719).

The abbreviations used in this report are listed in Table 2.2 below.

Table 2.2: Abbreviations

Abbreviation	Definition
AS	Australian Standard
AS3798-2007	Guidelines on earthworks for commercial and residential developments
EPA	Environmental Protection Authority
GITA	Geotechnical Inspection and Testing Authority
MC	Moisture Content
SMDD	Standard Maximum Dry Density
NATA	National Association of Testing Authorities (Australia)
SOMC	Standard Optimum Moisture Content
PI	Plasticity Index
PSD	Particle Size Distribution

2.3 Dates on Site

Geotechnical and engineering staff from Chadwick Geotechnics were onsite for the duration of the earthworks program on the days shown in Table 2.3 below.

Table 2.3: Level 1 GITA – Onsite Presence

Month	Dates on site
February 2026	16, 17, 19, 20, 23, 24, 25, 27
March 2026	6, 10, 11, 12, 13, 16, 19
April 2026	1, 16
August 2026	4

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within the Riverfield Square Estate Stage 37 site as shown on Figure 2.1 and on the Site Plan in Appendix A, with reference to Section 2.5 (Excluded Areas) of this report.

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

- Lots 3701 to Lot 3773.

The stripping process resulted in some localised overexcavation in areas not planned to be filled. Controlled fill was placed and compacted in these areas to achieve the design levels. Consequently, there was a difference in lots planned to be filled and those where fill was actually placed.

2.5 Excluded Areas

This report does not include fill outside the general boundary of the filled lots as shown in Figure 2.1. 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 Specification

There was no formal specification provided for the earthworks. The works were conducted in general accordance with the AS3798-2007 and the earthworks practices adopted across the broader Riverfield Estate development.

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

- All filling shall be undertaken in accordance with 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 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.

4 Inspection and Testing

The inspection and testing of earthworks have been carried out in accordance with AS3798-2007 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.
- Placement and compaction of engineered fill.

4.2 Fill material

Fill materials used during construction at the site comprised of local clayey sands or gravelly and sandy clays won from the road boxing and trench excavations on this and surrounding sites.

Two bulk samples were sampled during the earthwork filling works. The material compliance test results are tabulated in Table 4.1 below. The laboratory test certificate is attached in Appendix D.

Table 4.1: Compliance test results summary

Sample #	Particle Size Distribution (PSD)						Liquid Limit %	Plastic Limit %	Plasticity Index %
	37.5 mm	13.2 mm	4.75 mm	1.18 mm	425 µm	0.75 µm			
S26DS-01156/1	100	100	100	95	80	30	41	15	26
S26DS-02170/1	100	100	100	98	74	26	55	16	39

The laboratory test results indicate the fill material was clayey sand and that the clay fraction of the soil is highly reactive. and satisfied the requirements of the specification.

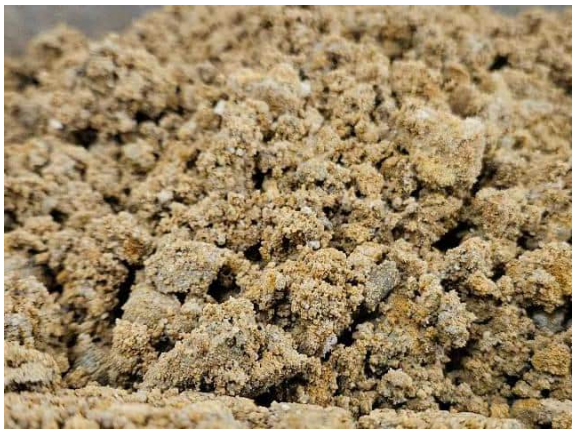
The material was deemed as being derived from natural soils. The soil is considered as 'Suitable Material' in accordance with Section 4.4 of the AS3798-2007.

The material imported and placed at the site was assessed by the Superintendent as being derived from natural soils and meeting the classification of 'Fill Material' as defined in EPA publication 1828.3-2024 "Waste disposal categories – characteristics and thresholds". Environmental testing of the material was 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 clayey sand used on site



Photograph 2: Sandy Clay use on site

4.3 Subgrade Assessment / Proof Roll

The subgrade was progressively assessed during the period Chadwick Geotechnics personnel were on site. Subgrade assessments were conducted following the removal of natural grasses and topsoil that was present on site.

The stripping process resulted in some localised overexcavation in areas not planned to be filled. Controlled fill was subsequently placed and compacted in these areas to achieve the design levels.

No soft spots or deflections were encountered during the inspections, and the area was found to be firm and free of vegetation and other deleterious material.

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

Photograph 4.2: Subgrade assessment photographs



Photograph 3: Subgrade assessment



Photograph 4: Subgrade assessment

4.4 Engineered Fill Construction

All fill material was brought by dump trucks from the local stockpiles, spread with a bulldozer and compacted with a pad foot roller. A water cart was present onsite during the works.

All fill 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
Bulldozer	CAT D6
Compaction	Hamm 1SF13 vibrating pad foot roller
Water cart	Road going truck and off-road truck
Dump Trucks	Volvo A256
Excavator	CAT 25T

Photographs of typical machinery onsite used during construction are shown below.

Photograph 4.3: General earthworks machinery and fill construction photographs



Photograph 5: Vibrating pad foot roller preparing fill



Photograph 6: Bulldozer used on site during fill construction



Photograph 7: Excavator moving earth



Photograph 8: Water cart conditioning clay

4.5 Density and Moisture testing

Field density and moisture content testing was undertaken progressively during the construction of 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 at 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-Nine (59) tests were performed during the filling process. Six (6) of the tests did not achieve the recommended density initially. These areas were reworked and retested accordingly. The retests returned passing density and moisture test results.

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

Photograph 4.4: Field density/moisture testing photographs



Photo 9: Field density/moisture test



Photo 10: Field density/moisture test

5 Conclusion

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

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

- It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 – Level 1 Inspection and Testing - AS3798-2007 Guidelines on Earthworks for Commercial and Residential Developments.

Chadwick Geotechnics completed its inspection and testing services on 4 August 2026. After this date, 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 of 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.

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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David Glover (PE0015860)

Principal Geotechnical Engineer

p:\1091938\workingmaterial\1091938.037 riverfield square stage 37\level one\1091938.037 riverfield stage 37 l1 report.docx

Appendix A Test location plan

COPYRIGHT ON THIS FIGURE IS RESERVED DO NOT SCALE FROM THIS FIGURE - IF IN DOUBT, ASK.

T:\Dandenong\Geo Projects\1091938\WorkingMaterial\1091938.037 Riverfield Square Stage 37\CAD\FIG\1091938.037-F01.dwg 2026-Nov-05 2:37:00 pm Plotted By: KATHRYN JACKSON

LEGEND

S26DS-XXXXX
HILF DENSITY TEST LOCATION

S26DS-02369 S26DS-02370 S26DS-06688 S26DS-01701 S26DS-02500 S26DS-02089 S26DS-02371 S26DS-01627 S26DS-01450
S26DS-02498 S26DS-02168 S26DS-01550 S26DS-01549 S26DS-02087 S26DS-02107 S26DS-02218 S26DS-02372 S26DS-01276
S26DS-01551 S26DS-02169 S26DS-02499 S26DS-01278 S26DS-02219 S26DS-02106 S26DS-01548 S26DS-02501 S26DS-01277 S26DS-02088
S26DS-01382 S26DS-01274 S26DS-01275 S26DS-01380 S26DS-01154 S26DS-01700 S26DS-01155 S26DS-01572 S26DS-02293
S26DS-01386 S26DS-02222 S26DS-01626 S26DS-01385 S26DS-01381 S26DS-02221 S26DS-02220 S26DS-03085
S26DS-02292 S26DS-02225 S26DS-01625 S26DS-02224 S26DS-01379 S26DS-01699 S26DS-01153 S26DS-01152 S26DS-01384 S26DS-01573 S26DS-02223 S26DS-01383 S26DS-07117 S26DS-03563

TANGELO AVENUE
VERDIGRIS AVENUE
RUSSELL LANE
KOBICHA WAY
PAPER ROAD
VIRIDIAN BOULEVARD
TUCKERS ROAD
EXISTING STAGE 21
EXISTING STAGE 24
FUTURE STAGE 38
EXISTING STAGE 30
EXISTING STAGE IN-54-14
EXISTING RETAINING WALL
FUTURE RETAINING WALL
REMOVE EXISTING CONCRETE EDGE STRIP, "NO ROAD" SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION
PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5).
INSTALL PSM
HEAVY DUTY CROSSOVER
PROVIDE PIT BLOCKOUT FOR FUTURE CONNECTION. REFER TO PIT SCHEDULE FOR DETAILS.
BREAK INTO EXISTING PIT & CONNECT TO EXISTING DRAINAGE
EXISTING SHARED PATH TO BE SAWCUT FOR DRAINAGE, ELEC. & TELECOM. CONNECTION AND REINSTATED TO COUNCIL STANDARDS
INSTALL BOLLARDS
EXISTING SHARED PATH TO BE SAWCUT FOR ELECTRICAL AND OPTIC FIBRE CONNECTIONS (LOTS 3729-3748) AND REINSTATED TO COUNCIL STANDARDS
EXISTING SHARED PATH TO BE SAWCUT FOR WATER CONNECTION AND REINSTATED TO COUNCIL STANDARDS
CONNECT TO EXISTING DRAINAGE
REMOVE EXISTING CONCRETE EDGE STRIP, "NO ROAD" SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION

NOTES:
1. AERIAL IMAGE SOURCED FROM METROMAP BY AEROMETREX 2026. COPYRIGHT MAPBOX. COPYRIGHT OPENSTREET MAP. IMAGERY DATE: 06/01/2026.

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

ORIGINAL IN COLOUR

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PROJECT No.	1091938.037	
DESIGNED	RHB	Oct.26
DRAWN	KMJA	Oct.26
CHECKED		
APPROVED	DATE	

CLIENT GREENRIDGE PROPERTIES PTY LTD
PROJECT RIVERFIELD SQUARE ESTATE - STAGE 37
TITLE LEVEL ONE HILF DENSITY TESTING
HILF DENSITY TEST LOCATION PLAN

UNDER REVISION 1

SCALE (A3) 1:1000 FIG No. 1091938.037-F01 REV 1

Appendix B Density and moisture test summary

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.037 Stage 37

HILF Density Testing - Field Summary

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
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Think Act Safe Be

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:W26DS00308	S26DS-01152	16/02/2026	1	3746 / 1	354902	5778169	25.069	99	0.5 dry	Pass	
HDR:W26DS00308	S26DS-01153	16/02/2026	2	3744 / 1	354913	5778173	25.117	99.5	0 dry	Pass	
HDR:W26DS00308	S26DS-01154	16/02/2026	3	3755 / 1	354966	5778218	24.349	101.5	2.5 dry	Pass	
HDR:W26DS00308	S26DS-01155	16/02/2026	4	3749 / 1	354990	5778211	23.454	100	0.5 dry	Pass	
HDR:W26DS00330	S26DS-01274	17/02/2026	1	3766 / 1	354890	5778214	23.034	94.5	2 wet	Fail	See Retest S26DS-01380
HDR:W26DS00330	S26DS-01275	17/02/2026	2	3763 / 1	354918	5778217	25.979	98.5	2.5 dry	Pass	
HDR:W26DS00330	S26DS-01276	17/02/2026	3	3721 / 1	354989	5778266	25.53	97	0 dry	Pass	
HDR:W26DS00330	S26DS-01277	17/02/2026	4	3705 / 1	355006	5778240	23.357	99.5	0 dry	Pass	
HDR:W26DS00330	S26DS-01278	17/02/2026	5	3709 / 1	354959	5778245	24.436	97.5	0 wet	Pass	
HDR:W26DS00361	S26DS-01379	19/02/2026	1	3772 / 2	354885	5778176	25.544	96	0 wet	Pass	
HDR:W26DS00361	S26DS-01380	19/02/2026	2	3766 / 1	354890	5778214	23.034	97.5	0.5 wet	Pass	Retest of S26DS-01274
HDR:W26DS00361	S26DS-01381	19/02/2026	3	3769 / 2	354884	5778197	25.937	99	0.5 wet	Pass	
HDR:W26DS00361	S26DS-01382	19/02/2026	4	3765 / 2	354887	5778226	26.227	97	0 wet	Pass	
HDR:W26DS00361	S26DS-01383	19/02/2026	5	3730 / 2	354989	5778166	23.179	99.5	0.5 dry	Pass	
HDR:W26DS00361	S26DS-01384	19/02/2026	6	3738 / 1	354944	5778171	24.527	97.5	2 dry	Pass	
HDR:W26DS00361	S26DS-01385	19/02/2026	7	3751 / 1	354981	5778202	23.729	97	0 dry	Pass	
HDR:W26DS00361	S26DS-01386	19/02/2026	8	3760 / 2	354928	5778206	25.313	99.5	0 dry	Pass	
HDR:W26DS00381	S26DS-01450	20/02/2026	1	3831 / 1	355027	5778295	22.396	96.5	0.5 wet	Pass	
HDR:W26DS00414	S26DS-01548	23/02/2026	1	3707 / 2	354980	5778241	23.986	100.5	0.5 wet	Pass	
HDR:W26DS00414	S26DS-01549	23/02/2026	2	3718 / 2	354946	5778269	24.95	95.5	1.5 wet	Pass	
HDR:W26DS00414	S26DS-01550	23/02/2026	3	3714 / 2	354896	5778270	26.319	97	0 dry	Pass	
HDR:W26DS00414	S26DS-01551	23/02/2026	4	3712 / 2	354920	5778253	25.804	97.5	0 wet	Pass	

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.037 Stage 37

HILF Density Testing - Field Summary

Chadwick Geotechnics
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Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W26DS00425	S26DS-01572	24/02/2026	1	3747 / 3	354998	5778211	23.48	96	0 wet	Pass	
HDR:W26DS00425	S26DS-01573	24/02/2026	2	3734 / 3	354970	5778169	24.02	98	0 wet	Pass	
HDR:W26DS00438	S26DS-01625	25/02/2026	1	3742 / -	354925	5778175	25.37	100	0 dry	Pass	
HDR:W26DS00438	S26DS-01626	25/02/2026	2	3756 / 1	354953	5778203	24.94	99.5	0.5 wet	Pass	
HDR:W26DS00438	S26DS-01627	25/02/2026	3	3722 / -	354992	5778294	23.54	97.5	0.5 wet	Pass	
HDR:W26DS00456	S26DS-01699	27/02/2026	1	3773 / 3	354880	5778172	25.502	99	0.5 wet	Pass	
HDR:W26DS00456	S26DS-01700	27/02/2026	2	3767 / 3	354885	5778209	26.428	98	0 wet	Pass	
HDR:W26DS00456	S26DS-01701	27/02/2026	3	3725 / 2	354952	5778305	24.735	98	0.5 wet	Pass	
HDR:W26DS00569	S26DS-02087	6/03/2026	1	3720 / 4	354976	5778266	24.351	94	2.5 dry	Fail	See Retest S26DS-02107
HDR:W26DS00569	S26DS-02088	6/03/2026	2	3704 / 4	355016	5778235	23.278	98.5	0.5 dry	Pass	
HDR:W26DS00569	S26DS-02089	6/03/2026	3	3725 / 4	354948	5778304	24.954	90.5	0.5 dry	Fail	See Retest S26DS-02500 & S26DS-06688
HDR:W26DS00579	S26DS-02106	10/03/2026	1	3708 / 4	354964	5778237	24.681	93.5	0.5 wet	Fail	See Retest S26DS-2219
HDR:W26DS00579	S26DS-02107	10/03/2026	2	3720 / 4	354976	5778266	24.351	98.5	4 dry	Fail	Retest of S26DS-02087, See Retest S26DS-02218
HDR:W26DS00599	S26DS-02168	11/03/2026	1	3716 / 4	354924	5778276	25.915	99	0.5 wet	Pass	
HDR:W26DS00599	S26DS-02169	11/03/2026	2	3713 / 4	354900	5778252	26.5	98.5	1.5 wet	Pass	
HDR:W26DS00611	S26DS-02218	12/03/2026	1	3720 / 4	354967	5778265	24.351	94.5	0.5 dry	Fail	Retest of S26DS-02107 See Retest S26DS-02372
HDR:W26DS00611	S26DS-02219	12/03/2026	2	3708 / 4	354975	5778238	24.681	95	1 dry	Pass	Retest of S26DS-02106
HDR:W26DS00611	S26DS-02220	12/03/2026	3	3748 / 5	354995	5778199	23.952	96.5	0.5 dry	Pass	
HDR:W26DS00611	S26DS-02221	12/03/2026	4	3754 / 5	354961	5778199	24.818	100	0.5 wet	Pass	
HDR:W26DS00611	S26DS-02222	12/03/2026	5	3759/5	354933	5778206	25.734	99.5	0 dry	Pass	
HDR:W26DS00611	S26DS-02223	12/03/2026	6	3732 / 5	354978	5778169	34.066	98	3 dry	Pass	
HDR:W26DS00611	S26DS-02224	12/03/2026	7	3737 / 5	354950	5778173	24.861	97.5	0.5 wet	Pass	

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.037 Stage 37

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HDR:W26DS00611	S26DS-02225	12/03/2026	8	3745 / 5	354910	5778178	26.104	97.5	2 dry	Pass	
HDR:W26DS00628	S26DS-02292	13/03/2026	1	3771 / 5	354883	5778185	26.262	99.5	0.5 wet	Pass	
HDR:W26DS00628	S26DS-02293	13/03/2026	2	3768 / 5	354883	5778206	26.586	98	0.5 dry	Pass	
HDR:W26DS00653	S26DS-02369	16/03/2026	1	3728 / 5	354913	5778308	26.881	98	2 wet	Pass	
HDR:W26DS00653	S26DS-02370	16/03/2026	2	3726 / 5	354939	5778307	25.666	100	1.5 wet	Pass	
HDR:W26DS00653	S26DS-02371	16/03/2026	3	3724 / 5	354965	5778302	24.691	99	0 wet	Pass	
HDR:W26DS00653	S26DS-02372	16/03/2026	4	3720 / 4	354967	5778262	24.351	99.5	0.5 wet	Pass	Retest of S26DS-02218
HDR:W26DS00695	S26DS-02498	19/03/2026	1	3715 / 5	354905	5778282	26.634	104	2 dry	Pass	
HDR:W26DS00695	S26DS-02499	19/03/2026	2	3711 / 5	354931	5778249	25.984	100.5	1 wet	Pass	
HDR:W26DS00695	S26DS-02500	19/03/2026	3	3725 / 4	354946	5778306	24.954	100.5	1 wet	Pass	Retest of S26DS-02089
HDR:W26DS00695	S26DS-02501	19/03/2026	4	3706 / 5	354990	5778238	24.166	96.5	3 wet	Pass	
HDR:W26DS00848	S26DS-03085	1/04/2026	1	3702 / 3	355032	5778193	22.746	97.5	0.5 wet	Pass	
HDR:W26DS00956	S26DS-03563	16/04/2026	1	3701 / 1	355020	5778156	22.487	101.5	2 dry	Pass	
HDR:W26DS01910	S26DS-07117	23/04/2026	1	3701 / -	355025	5778165	22.855	97	2 wet	Pass	
HDR:W26DS01792	S26DS-06688	4/08/2026	1	3725 / 4	354950	5778308	24.931	100	2.5 wet	Pass	Retest of S26DS-02089

Appendix C NATA compaction laboratory reports

CHADWICK GEOTECHNICS

Think Act Safe Be

Dandenong South
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25 Metcalf Street
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Ph: + 61 3 8796 7900
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Report No: HDR:W26DS00308
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01152	S26DS-01153	S26DS-01154	S26DS-01155		
Field Sample ID	1	2	3	4		
Date Tested	16/02/2026	16/02/2026	16/02/2026	16/02/2026		
Time Tested	09:00	13:15	15:30	15:45		
E:	354902 (4901.825)	354913 (4914.145)	354966 (4959.384)	354990 (4990.178)		
N:	5778169 (78163.021)	5778173 (78168.403)	5778218 (78211.249)	5778211 (78206.751)		
EL:	25.069	25.117	24.349	23.454		
Lot / Layer:	3746 / 1	3744 / 1	3755 / 1	3749 / 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 (%)	14.4	16.3	12.8	15.6		
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)	2.03	2.01	2.03	2.06		
Field Dry Density (t/m³)	1.77	1.73	1.80	1.78		
Peak Converted Wet Density (t/m³)	2.05	2.02	2.00	2.06		
Optimum Moisture Content (%)	15.0	16.5	15.5	16.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	95.5	99.0	84.0	97.5		
Moisture Variation (%)	0.5 dry	0.0	2.5 dry	0.5 dry		
Hilf Density Ratio (%)	**99.0**	**99.5**	**101.5**	**100.0**		

Comments

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Dandenong South
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Ph: + 61 3 8796 7900
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Report No: HDR:W26DS00330
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager -
Date of Issue: 2/11/2026

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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	S26DS-01274	S26DS-01275	S26DS-01276	S26DS-01277	S26DS-01278	
Field Sample ID	1	2	3	4	5	
Date Tested	17/02/2026	17/02/2026	17/02/2026	17/02/2026	17/02/2026	
Time Tested	15:00	15:10	15:25	15:35	15:50	
E:	354890 (5003.503)	354918 (4887.587)	354989 (4916.060)	355006 (7988.762)	354959 (4957.383)	
N:	5778214 (78238.225)	5778217 (78211.854)	5778266 (78211.211)	5778240 (78258.143)	5778245 (78244.228)	
EL:	23.034	25.979	25.530	23.357	24.436	
Lot / Layer:	3766 / 1	3763 / 1	3721 / 1	3705 / 1	3709 / 1	
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 (%)	15.6	11.4	14.1	14.0	16.7	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.01	2.05	2.06	2.06	2.04	
Field Dry Density (t/m³)	1.74	1.84	1.81	1.81	1.75	
Peak Converted Wet Density (t/m³)	2.12	2.08	2.12	2.07	2.09	
Optimum Moisture Content (%)	13.5	13.5	14.5	14.5	16.5	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Ratio (%)	114.5	83.5	99.0	98.5	101.0	
Moisture Variation (%)	2.0 wet	2.5 dry	0.0	0.0	0.0	
Hilf Density Ratio (%)	**94.5**	**98.5**	**97.0**	**99.5**	**97.5**	

Comments

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CHADWICK GEOTECHNICS

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:W26DS00361
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01379	S26DS-01380	S26DS-01381	S26DS-01382	S26DS-01383	S26DS-01384
Field Sample ID	1	2	3	4	5	6
Date Tested	19/02/2026	19/02/2026	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Time Tested	15:00	15:10	15:25	15:35	15:45	16:10
E:	354885 (4880.219)	354890 (5003.503)	354884 (4882.956)	354887 (4887.031)	354989 (4988.903)	354944 (4944.115)
N:	5778176 (78174.214)	5778214 (5778514)	5778197 (78193.447)	5778226 (78219.612)	578166 (78164.194)	5778171 (78169.331)
EL:	25.544	23.034	25.937	26.227	23.179	24.527
Lot / Layer:	3772 / 2	3766 / 1	3769 / 2	3765 / 2	3730 / 2	3738 / 1
		Retest of S26DS-01274				
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 (%)	13.9	13.1	13.6	15.0	15.2	19.2
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.03	2.09	2.11	2.05	2.07	1.92
Field Dry Density (t/m³)	1.78	1.85	1.86	1.78	1.79	1.61
Peak Converted Wet Density (t/m³)	2.12	2.14	2.13	2.11	2.08	1.97
Optimum Moisture Content (%)	14.0	12.5	13.0	15.0	15.5	21.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	100.5	103.0	103.5	101.0	98.0	91.5
Moisture Variation (%)	0.0	0.5 wet	0.5 wet	0.0	0.5 dry	2.0 dry
Hilf Density Ratio (%)	**96.0**	**97.5**	**99.0**	**97.0**	**99.5**	**97.5**

Comments

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Report No: HDR:W26DS00361
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01385	S26DS-01386				
Field Sample ID	7	8				
Date Tested	19/02/2026	19/02/2026				
Time Tested	16:20	16:30				
E:	354981 (4479.983)	354928 (4927.676)				
N:	5778202 (78197.835)	5778206 (78204.620)				
EL:	23.729	25.313				
Lot / Layer:	3751 / 1	3760 / 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 (%)	14.6	15.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.03	2.10				
Field Dry Density (t/m³)	1.77	1.83				
Peak Converted Wet Density (t/m³)	2.10	2.11				
Optimum Moisture Content (%)	14.5	15.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	99.5	99.5				
Moisture Variation (%)	0.0	0.0				
Hilf Density Ratio (%)	**97.0**	**99.5**				

Comments

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Report No: HDR:W26DS00381
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01450					
Field Sample ID	1					
Date Tested	20/02/2026					
Time Tested	08:50					
E:	355027 (5025.270)					
N:	5778295 (78294.076)					
EL:	22.396					
Lot / Layer:	3831 / 1					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	16.1					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.03					
Field Dry Density (t/m³)	1.75					
Peak Converted Wet Density (t/m³)	2.10					
Optimum Moisture Content (%)	16.0					
Compactive Effort	Standard					
Moisture Ratio (%)	102.0					
Moisture Variation (%)	0.5 wet					
Hilf Density Ratio (%)	**96.5**					

Comments

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Report No: HDR:W26DS00414
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01548	S26DS-01549	S26DS-01550	S26DS-01551		
Field Sample ID	1	2	3	4		
Date Tested	23/02/2026	23/02/2026	23/02/2026	23/02/2026		
Time Tested	08:50	15:20	15:30	15:40		
E:	354980 (4980.998)	354946 (4945.594)	354896 (4894.209)	354920 (4918.871)		
N:	5778241 (78237.360)	5778269 (78263.718)	5778270 (78263.511)	5778253 (78246.751)		
EL:	23.986	24.950	26.319	25.804		
Lot / Layer:	3707 / 2	3718 / 2	3714 / 2	3712 / 2		
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	12.1	13.5	16.5	13.3		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.17	2.06	2.03	2.11		
Field Dry Density (t/m³)	1.94	1.82	1.74	1.86		
Peak Converted Wet Density (t/m³)	2.16	2.15	2.09	2.16		
Optimum Moisture Content (%)	12.0	12.0	17.0	13.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	103.0	111.0	98.5	101.0		
Moisture Variation (%)	0.5 wet	1.5 wet	0.0	0.0		
Hilf Density Ratio (%)	**100.5**	**95.5**	**97.0**	**97.5**		

Comments

Results relate only to the items tested/sampled.

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CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
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DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W26DS00425
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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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	S26DS-01572	S26DS-01573				
Field Sample ID	1	2				
Date Tested	24/02/2026	24/02/2026				
Time Tested	13:00	13:15				
E:	354998 (5002.087)	354970 (4970.191)				
N:	5778211 (78201.034)	5778169 (78165.766)				
EL:	23.480	24.020				
Lot / Layer:	3747 / 3	3734 / 3				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	14.9	16.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.01	2.05				
Field Dry Density (t/m³)	1.74	1.77				
Peak Converted Wet Density (t/m³)	2.09	2.09				
Optimum Moisture Content (%)	15.0	16.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	100.5	100.0				
Moisture Variation (%)	0.0	0.0				
Hilf Density Ratio (%)	**96.0**	**98.0**				

Comments

Results relate only to the items tested/sampled.

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Dandenong South
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Report No: HDR:W26DS00438
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 6/03/2026

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	S26DS-01625	S26DS-01626	S26DS-01627			
Field Sample ID	1	2	3			
Date Tested	25/02/2026	25/02/2026	25/02/2026			
Time Tested	15:00	15:15	15:30			
E:	354925 (4923.323)	354953 (4949.155)	354992 (4988.779)			
N:	5778175 (78170.095)	5778203 (78199.762)	5778294 (78293.639)			
RL:	25.37	24.94	23.54			
Lot / Layer:	3742 / -	3756 / 1	3722 / -			
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 (%)	15.7	16.1	15.1			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	2.09	2.06	2.08			
Field Dry Density (t/m³)	1.81	1.77	1.81			
Peak Converted Wet Density (t/m³)	2.09	2.07	2.13			
Optimum Moisture Content (%)	15.5	15.5	15.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	99.5	105.0	102.5			
Moisture Variation (%)	0.0	0.5 wet	0.5 wet			
Hilf Density Ratio (%)	**100.0**	**99.5**	**97.5**			

Comments

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CHADWICK GEOTECHNICS

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Dandenong South
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Report No: HDR:W26DS00456
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 22/04/2026

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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 Derived
Material: CLAY

Sample Data

Sample ID	S26DS-01699	S26DS-01700	S26DS-01701			
Field Sample ID	1	2	3			
Date Tested	27/02/2026	27/02/2026	27/02/2026			
Time Tested	14:40	15:00	15:15			
E:	4877.259 (354880)	4883.318 (354885)	4951.851 (354952)			
N:	78166.807 (5778172)	78205.249 (5778209)	78301.381 (5778305)			
RL:	25.502	26.428	24.735			
Lot / Layer:	3773 / 3	3767 / 3	3725 / 2			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	13.6	14.7	16.7			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	2.08	2.07	2.06			
Field Dry Density (t/m³)	1.83	1.80	1.76			
Peak Converted Wet Density (t/m³)	2.10	2.11	2.10			
Optimum Moisture Content (%)	13.0	14.5	16.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	103.0	101.0	104.0			
Moisture Variation (%)	0.5 wet	0.0	0.5 wet			
Hilf Density Ratio (%)	**99.0**	**98.0**	**98.0**			

Comments

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Report No: HDR:W26DS00569
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager -
Date of Issue: 27/10/2026

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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	S26DS-02087	S26DS-02088	S26DS-02089			
Field Sample ID	2	3	4			
Date Tested	6/03/2026	6/03/2026	6/03/2026			
Time Tested	13:25	13:35	13:45			
E:	354976 (4972.853)	355016 (5013.277)	354948 (4949.561)			
N:	5778266 (78262.215)	5778235 (78231.343)	5778304 (78298.305)			
EL:	24.351	23.278	24.954			
Lot / Layer:	3720 / 4	3704 / 4	3725 / 4			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	11.9	16.0	17.3			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.94	2.04	1.90			
Field Dry Density (t/m³)	1.74	1.76	1.62			
Peak Converted Wet Density (t/m³)	2.06	2.07	2.09			
Optimum Moisture Content (%)	14.5	16.0	17.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	82.5	98.5	97.5			
Moisture Variation (%)	2.5 dry	0.5 dry	0.5 dry			
Hilf Density Ratio (%)	**94.0**	**98.5**	**90.5**			

Comments

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Report No: HDR:W26DS00579
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 20/03/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02106	S26DS-02107				
Field Sample ID	1	2				
Date Tested	10/03/2026	10/03/2026				
Time Tested	14:20					
E:	354964 (4964.297)	354976 (4972.853)				
N:	5778237 (78237.874)	5778266 (78262.215)				
EL:	24.681	24.351				
Lot / Layer:	3708 / 4	3720 / 4				
		Retest of S26DS-02087				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	15.3	11.4				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.92	1.97				
Field Dry Density (t/m³)	1.66	1.76				
Peak Converted Wet Density (t/m³)	2.05	2.00				
Optimum Moisture Content (%)	15.0	15.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.0	73.0				
Moisture Variation (%)	0.5 wet	4.0 dry				
Hilf Density Ratio (%)	**93.5**	**98.5**				

Comments

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Report No: HDR:W26DS00599
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 20/03/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02168	S26DS-02169				
Field Sample ID	1	2				
Date Tested	11/03/2026	11/03/2026				
Time Tested	14:10	14:20				
E:	354924 (4922.654)	354900 (4896.810)				
N:	5778276 (78267.927)	5778252 (78248.087)				
EL:	25.915	26.500				
Lot / Layer:	3716 / 4	3713 / 4				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	14.8	17.8				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.06	2.04				
Field Dry Density (t/m³)	1.80	1.73				
Peak Converted Wet Density (t/m³)	2.09	2.07				
Optimum Moisture Content (%)	14.5	16.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	103.5	110.5				
Moisture Variation (%)	0.5 wet	1.5 wet				
Hilf Density Ratio (%)	**99.0**	**98.5**				

Comments

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Report No: HDR:W26DS00611
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager - Date of Issue: 2/11/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02218	S26DS-02219	S26DS-02220	S26DS-02221	S26DS-02222	S26DS-02223
Field Sample ID	1	2	3	4	5	6
Date Tested	12/03/2026	12/03/2026	12/03/2026	12/03/2026	12/03/2026	12/03/2026
Time Tested	14:00	14:10	14:20	14:30	14:40	14:50
E:	354967 (4972.853)	354975 (4964.297)	354995 (4993.387)	354961 (4962.980)	354933 (4932.720)	354978 (4977.913)
N:	5778265 (5778245)	5778238 (78237.874)	5778199 (78194.527)	5778199 (78198.672)	5778206 (78202.783)	5778169 (78163.522)
EL:	24.351	24.681	23.952	24.818	25.734	34.066
Lot / Layer:	3720 / 4	3708 / 4	3748 / 5	3754 / 5	3759 / 5	3732 / 5
	Retest of S26DS-02107	Retest of S26DS-02106				
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	15.1	13.5	17.8	15.9	15.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.97	1.95	2.04	2.04	2.07	1.93
Field Dry Density (t/m³)	1.68	1.69	1.80	1.73	1.78	1.67
Peak Converted Wet Density (t/m³)	2.08	2.05	2.12	2.04	2.08	1.97
Optimum Moisture Content (%)	17.5	16.0	13.5	17.5	16.0	18.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	97.5	95.0	98.0	102.0	99.0	83.0
Moisture Variation (%)	0.5 dry	1.0 dry	0.5 dry	0.5 wet	0.0	3.0 dry
Hilf Density Ratio (%)	**94.5**	**95.0**	**96.5**	**100.0**	**99.5**	**98.0**

Comments

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Report No: HDR:W26DS00611
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager - Date of Issue: 2/11/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02224	S26DS-02225				
Field Sample ID	7	8				
Date Tested	12/03/2026	12/03/2026				
Time Tested	15:00	15:10				
E:	354950 (4949.293)	354910 (4908.625)				
N:	5778173 (78167.375)	5778178 (78172.583)				
EL:	24.861	26.104				
Lot / Layer:	3737 / 5	3745 / 5				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	18.8	16.7				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.01	1.95				
Field Dry Density (t/m³)	1.69	1.67				
Peak Converted Wet Density (t/m³)	2.06	1.99				
Optimum Moisture Content (%)	18.5	19.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.0	88.5				
Moisture Variation (%)	0.5 wet	2.0 dry				
Hilf Density Ratio (%)	**97.5**	**97.5**				

Comments

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Report No: HDR:W26DS00628
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 20/03/2026

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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	S26DS-02292	S26DS-02293				
Field Sample ID	1	2				
Date Tested	13/03/2026	13/03/2026				
Time Tested	14:30	14:50				
E:	354883 (4883.250)	354883 (4883.250)				
N:	5778185 (78181.916)	5778206 (78199.466)				
EL:	26.262	26.586				
Lot / Layer:	3771 / 5	3768 / 5				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	21.1	18.9				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.02	2.02				
Field Dry Density (t/m³)	1.67	1.70				
Peak Converted Wet Density (t/m³)	2.03	2.06				
Optimum Moisture Content (%)	20.5	19.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	103.5	98.0				
Moisture Variation (%)	0.5 wet	0.5 dry				
Hilf Density Ratio (%)	**99.5**	**98.0**				

Comments

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Report No: HDR:W26DS00653
Issue No: 2
This report replaces all previous issues of report no 'HDR:W26DS00653'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager -
Date of Issue: 2/11/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02369	S26DS-02370	S26DS-02371	S26DS-02372		
Field Sample ID	1	2	3	4		
Date Tested	16/03/2026	16/03/2026	16/03/2026	16/03/2026		
Time Tested	14:00	14:10	01:42	14:30		
E:	354913 (4909.987)	354939 (4937.574)	354965 (4966.287)	354967 (4972.853)		
N:	5778308 (78306.252)	5778307 (78301.903)	5778302 (78298.324)	5778262 (78262.215)		
EL:	26.881	25.666	24.691	24.351		
Lot / Layer:	3728 / 5	3726 / 5	3724 / 5	3720 / 4		
				Retest of S26DS-02218		
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	17.7	21.5	18.8	19.6		
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)	2.04	2.02	2.03	2.03		
Field Dry Density (t/m³)	1.73	1.66	1.70	1.69		
Peak Converted Wet Density (t/m³)	2.08	2.02	2.05	2.04		
Optimum Moisture Content (%)	16.0	20.0	18.5	19.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	112.5	107.0	101.0	102.5		
Moisture Variation (%)	2.0 wet	1.5 wet	0.0	0.5 wet		
Hilf Density Ratio (%)	**98.0**	**100.0**	**99.0**	**99.5**		

Comments

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Report No: HDR:W26DS00695
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager - Date of Issue: 2/11/2026

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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: Imported - Dam
Material: Clay

Sample Data

Sample ID	S26DS-02498	S26DS-02499	S26DS-02500	S26DS-02501		
Field Sample ID	2	3	4	5		
Date Tested	19/03/2026	19/03/2026	19/03/2026	19/03/2026		
Time Tested	08:30	08:40	08:50	09:00		
E:	354905 (4904.625)	354931 (4929.319)	354946 (4942.319)	354990 (4990.658)		
N:	5778282 (78277.319)	5778249 (78244.764)	5778306 (78362.215)	5778238 (78233.464)		
EL:	26.634	25.984	24.954	24.166		
Lot / Layer:	3715 / 5	3711 / 5	3725 / 4	3706 / 5		
			Retest of S26DS-02089			
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	16.7	19.9	19.7	19.6		
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)	2.07	2.05	2.05	2.00		
Field Dry Density (t/m³)	1.77	1.71	1.71	1.68		
Peak Converted Wet Density (t/m³)	1.99	2.04	2.04	2.07		
Optimum Moisture Content (%)	18.5	19.0	19.0	16.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	89.0	105.0	104.5	117.5		
Moisture Variation (%)	2.0 dry	1.0 wet	1.0 wet	3.0 wet		
Hilf Density Ratio (%)	**104.0**	**100.5**	**100.5**	**96.5**		

Comments

Results relate only to the items tested/sampled.

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Dandenong South
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Report No: HDR:W26DS00848
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 7/05/2026

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S26DS-03085					
Field Sample ID	1					
Date Tested	1/04/2026					
Time Tested	16:10					
E:	355032 (5029.710)					
N:	5778193 (78189.261)					
EL:	22.746					
Lot / Layer:	3702 / 3					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	18.9					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.04					
Field Dry Density (t/m³)	1.71					
Peak Converted Wet Density (t/m³)	2.09					
Optimum Moisture Content (%)	18.5					
Compactive Effort	Standard					
Moisture Ratio (%)	102.5					
Moisture Variation (%)	0.5 wet					
Hilf Density Ratio (%)	**97.5**					

Comments

Results relate only to the items tested/sampled.

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CHADWICK GEOTECHNICS

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Report No: HDR:W26DS00956
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 7/05/2026

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	S26DS-03563					
Field Sample ID	1					
Date Tested	16/04/2026					
Time Tested	12:00					
E:	355020 (5019.978)					
N:	5778156 (78152.931)					
EL:	22.487					
Lot / Layer:	3701 / 1					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	14.7					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.07					
Field Dry Density (t/m³)	1.80					
Peak Converted Wet Density (t/m³)	2.03					
Optimum Moisture Content (%)	16.5					
Compactive Effort	Standard					
Moisture Ratio (%)	88.0					
Moisture Variation (%)	2.0 dry					
Hilf Density Ratio (%)	**101.5**					

Comments

Results relate only to the items tested/sampled.

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Report No: HDR:W26DS01910
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: B. Taseski (Branch Laboratory Manager -)
Date of Issue: 31/08/2026

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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	S26DS-07117					
Field Sample ID	1					
Date Tested	23/04/2026					
Time Tested	10:35					
E:	355025 (50258.275)					
N:	5778165 (78162.747)					
EL:	22.855					
Lot / Layer:	3701 / -					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	16.8					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.09					
Field Dry Density (t/m³)	1.79					
Peak Converted Wet Density (t/m³)	2.16					
Optimum Moisture Content (%)	14.5					
Compactive Effort	Standard					
Moisture Ratio (%)	114.5					
Moisture Variation (%)	2.0 wet					
Hilf Density Ratio (%)	**97.0**					

Comments

Results relate only to the items tested/sampled.

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CHADWICK GEOTECHNICS

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Report No: HDR:W26DS01792
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

ilac-MRA NATA

Accreditation Number: 12719
Site Number: 12712

Approved Signatory: B. Taseski
(Branch Laboratory Manager -
Date of Issue: 27/10/2026

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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	S26DS-06688					
Field Sample ID	1					
Date Tested	4/08/2026					
Time Tested	11:30					
E:	354950 (4950.508)					
N:	5778308 (78307.956)					
EL:	24.931					
Lot / Layer:	3725 / 4					
	Retest of S26DS-02089					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	20.1					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.06					
Field Dry Density (t/m³)	1.71					
Peak Converted Wet Density (t/m³)	2.06					
Optimum Moisture Content (%)	18.0					
Compactive Effort	Standard					
Moisture Ratio (%)	113.0					
Moisture Variation (%)	2.5 wet					
Hilf Density Ratio (%)	**100.0**					

Comments

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Appendix D NATA compliance laboratory report

CHADWICK GEOTECHNICS

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Ph: + 61 3 8796 7900
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Report No: MAT:S26DS-01156/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 20/03/2026

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Sample Details

Sample Location	E: 354902 (4901.825), N: 5778169 (78163.021), EL: 3746, Layer: 1
Field Sample ID	1
Date Sampled	16/02/2026
Time Sampled	09:00
Source	Onsite
Material	SC Clayey SAND, brown, fine to coarse grained, medium plasticity clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S26DS-01156

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	15.5	
Date Tested		23/02/2026	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	9.5	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	41	
Plastic Limit (%)	AS 1289.3.2.1	15	
Plasticity Index (%)	AS 1289.3.3.1	26	
Date Tested		14/03/2026	

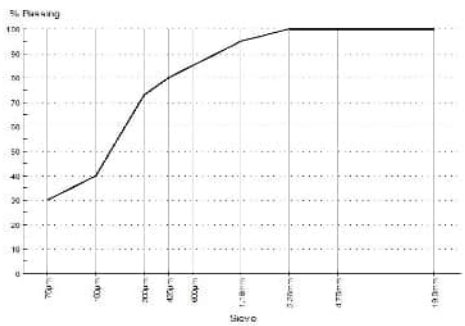
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 24/02/2026

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
4.75mm	100	
2.36mm	100	
1.18mm	95	
600µm	85	
425µm	80	
300µm	73	
150µm	40	
75µm	30	

Chart



Comments

Results relate only to the items tested/sampled.

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Dandenong South
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Ph: + 61 3 8796 7900
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Report No: MAT:S26DS-02170/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 37
Project No.: 1091938.037
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 22/04/2026

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Sample Details

Sample Location	E: 354900 (4896.810), N: 5778252 (78248.087), EL: 26.500, Lot: 3713, Layer: 4
Field Sample ID	1
Date Sampled	11/03/2026
Time Sampled	14:20
Source	Imported - Dam
Material	C Clayey SAND, pale brown grey, fine to coarse grained, high plasticity clay
Specification	AS Grading
Sampling Method	
Sample ID	S26DS-02170

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	14.0	
Date Tested		17/03/2026	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	7.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	55	
Plastic Limit (%)	AS 1289.3.2.1	16	
Plasticity Index (%)	AS 1289.3.3.1	39	
Date Tested		26/03/2026	

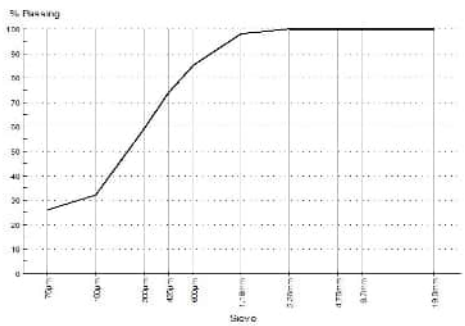
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 20/03/2026

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
6.7mm	100	
4.75mm	100	
2.36mm	100	
1.18mm	98	
600µm	85	
425µm	74	
300µm	59	
150µm	32	
75µm	26	

Chart



Comments

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Appendix E Controlled fill certificate

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Riverfield Square Stage 37,
Lots 3701 to Lot 3773.

Chadwick Geotechnics REF: 1091938.037.v1

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

DATE: October 2026

SUMMARY

Chadwick Geotechnics Pty Ltd conducted, Level 1 inspection and testing, in accordance with Section 8.2 of *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 specifications.

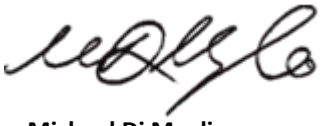
LIMITATIONS

This Certificate has been commissioned for the filling of the lots mentioned above and is based on the site conditions present at the time of the inspections (16 February 2026 and 4 August 2026). 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, or where there has been a change in the nature of the project or the site conditions since the site testing.

Chadwick Geotechnics Pty Ltd



Robert Barden
Project Coordinator



Michael Di Meglio
Project Director

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