CHADWICK GEOTECHNICS

REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

Riverfield Square Estate Stage 35
Lots 3501 to 3528

Prepared for:

Greenridge Properties Pty Ltd

27.03.2026

Our Ref: 1091938.035.v1

25 Metcalf Street, Dandenong South, Vic 3175, Melbourne, Australia
www.chadwickgeotechnics.com.au

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Document Control

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

Distribution:

Greenridge Properties Pty Ltd	1 PDF copy
Chadwick Geotechnics Pty Ltd (File)	1 PDF 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 35 of the Riverfield Square Estate in Clyde North between 22 September 2025 and 23 February 2026.

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

2 Project details

2.1 Location

Stage 35 is located to the North of Ballarto Road and the stage runs south from Viridian Boulevard.

The included works area is shown on the Site Plan in Appendix A and within Figure 2.1 below is an extract from Nearmap.

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	Beveridge Williams 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
September 2025	22, 23, 24, 25
October 2025	2, 3, 6, 7, 30
November 2025	25
December 2025	2
January 2026	7, 8, 12, 21, 22, 23, 27, 29
February 2026	23

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within Riverfield Square Estate Stage 35, 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:

- Lot's 3501 to Lot 3528

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

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.

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.
- Placement and compaction of engineered fill.

4.2 Fill material

Fill material used for the construction of the fill comprised of local gravelly and sandy clays won from the road boxing and trench excavations on this and the surrounding sites.

Bulk samples were taken from the earthwork area during construction. The samples were taken for geotechnical compliance testing. The material compliance test results are summarised in **Table 4.1 below.** The laboratory test certificate is attached in **Appendix C.**

Table 4.1: Compliance test Result Summary

Sample #	Particle Size Distribution (PSD)						Liquid Limit %	Plastic Limit %	Plasticity Index %
	37.5 mm	13.2 mm	4.75 mm	1.18 mm	425 µm	0.75 µm			
S26DS-00055/1	100	100	97	91	76	54	45	16	29
S26DS-00327/1	100	98	94	89	81	45	36	16	20

The laboratory test results indicated the fill material is clay of medium plasticity and satisfied the requirements of the specification.

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

The material imported and placed at the site by Brown Property Group was assessed by the Superintendent as being derived from natural soils and meeting the classification of 'Fill Material' as defined in EPA publication 1828.2-2021 "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 clay material used on site

Photograph 2: Sandy Clay used

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 natural grasses and topsoil that was present on site.

The subgrade inspection was 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 assessed with water truck

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 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
Pad foot roller	BPG 15 T, Vibrating Pad Foot Roller
Water cart	Volvo 25 T and road going truck
Dump Trucks	Volvo A256
Excavator	CAT 25 T

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 used during fill construction

Photograph 6: Import of materials used during fill construction

Photograph 7: Excavator

Photograph 8: Water Cart

4.5 Density and Moisture testing

Field density and moisture content testing was undertaken progressively during the 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.

Forty-two (42) tests were performed during the filling process. Six (6) of the tests did not achieve the recommended density or moisture ratio 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, 8 August 2025. 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.

This report is based on the nature of the project and the prevailing conditions between 22 September 2025 and 23 February 2026. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

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

Chadwick Geotechnics Pty Ltd

Report prepared by:

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Robert Barden

Project Manager

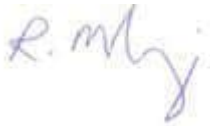
Authorised for Chadwick Geotechnics Pty Ltd by:

.....

Michael Di Meglio

Project Director

Report reviewed by:



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Robert McKenzie

Principal Geotechnical Engineer

PE0005222

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Appendix A Test location plan

T:\Dandenong\Geo Projects\1091938\WorkingMaterial\1091938.035 Riverfield Square Stage 35\CAD\FIG\1091938.035-F1.dwg 2026-Mar-26 3:36:26 PM Plotted By: KATHRYN JACKSON

LEGEND

S26DS-XXXXX HILF DENSITY TEST LOCATION

S26DS-00481 S26DS-00080 S26DS-00291 S26DS-00482 S26DS-00069 S26DS-00268 S26DS-00054 S26DS-00081 S26DS-00068 S26DS-00070 S26DS-00322 S26DS-00082 S26DS-00083 S26DS-00323 S26DS-00324 S26DS-00325 S26DS-00326

S25DS-01545 S25DS-10498 S25DS-10499 S25DS-01546 S26DS-00321 S26DS-00373 S25DS-10035 S25DS-10634 S25DS-10036 S25DS-09192 S25DS-09207 S25DS-09191 S25DS-09298 S25DS-09279 S25DS-09281 S25DS-09208 S25DS-09019 S26DS-01547 S25DS-09280 S25DS-09017 S25DS-09018 S25DS-08909 S25DS-08966 S25DS-08858 S25DS-08965 S25DS-08967

VIRIDIAN BOULEVARD

ERNSTBROOK DRIVE

MINDARO WAY

CAPRI WAY

GREVILLEA GROVE

HONEYEATER LANE

WHISTLER WALK RESERVE

BALLARTO ROAD

3118 3119 3120 3121 3122 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447 3448 3501 3502 3503 3504 3505 3506 3507 3508 3509 3510 3511 3514 3517 3519 3520 3521 3523 3524 3525 3526 3527 3528

NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 04/08/2025.

A3 SCALE 1:1500

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ORIGINAL IN COLOUR

CHADWICK GEOTECHNICS
www.chadwickgeotechnics.com.au

PROJECT No.	1091938.035		
DESIGNED	STPA	Mar.26	
DRAWN	KMJA	Mar.26	
CHECKED	RHB	Mar.26	
	R. BARDEN	26.03.2026	
	APPROVED	DATE	

CLIENT	GREENRIDGE PROPERTIES PTY LTD
PROJECT	RIVERFIELD SQUARE ESTATE - STAGE 35
TITLE	LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST LOCATION PLAN
SCALE (A3)	1:1500
FIG No.	1091938.035-F01
REV	1

Appendix B Density and moisture test summary

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.035 Stage 35

HILF Density Testing - Field Summary

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

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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:W25DS02280	S25DS-08858	22/09/2025	1		355543	5777807.382	-	95.5	0 dry	Pass	
HDR:W25DS02290	S25DS-08909	23/09/2025	1		355519	5777843	-	91.5	0 wet	Fail	See Retest S25DS-08966
HDR:W25DS02306	S25DS-08965	24/09/2025	1		355520	5777798	-	104.5	2 dry	Pass	
HDR:W25DS02306	S25DS-08966	24/09/2025	2		355548	5777844	-	102	1.5 dry	Pass	Retest of S25DS-08909
HDR:W25DS02306	S25DS-08967	24/09/2025	3		355520	5777749	-	102.5	2 dry	Pass	
HDR:W25DS02315	S25DS-09017	25/09/2025	1	3511 / 1	355479 (5479.740)	5777878 (77879.285)	-	106	0.5 wet	Pass	
HDR:W25DS02315	S25DS-09018	25/09/2025	2	3512 / 1	355536 (5535.470)	5777871 (77869.456)	-	103.5	0 dry	Pass	
HDR:W25DS02315	S25DS-09019	25/09/2025	3	3515 / 1	355546 (5540.227)	5777914 (77912.528)	-	101	0 wet	Pass	
HDR:W25DS02341	S25DS-09191	2/10/2025	1	3518 / 1	355548 (5545.735)	5777958 (77949.091)	16.721	95	0.5 wet	Pass	
HDR:W25DS02341	S25DS-09192	2/10/2025	2	3520 / 1	355555 (5553.915)	5777988 (77980.452)	16.732	99	2 dry	Pass	
HDR:W25DS02346	S25DS-09207	3/10/2025	1	3519 / 2	355552 (5548.874)	5777975 (77966.692)	17.028	101.5	2.5 dry	Pass	
HDR:W25DS02346	S25DS-09208	3/10/2025	2	3516 / 2	355543 (5541.453)	5777931 (77926.713)	16.865	91	0 wet	Fail	See Retest S25DS-09281
HDR:W25DS02359	S25DS-09279	6/10/2025	1	3517 / Final	355539 (5542.667)	5777934 (77939.464)	17.238	92.5	0.5 dry	Fail	See Retest S25DS-09298
HDR:W25DS02359	S25DS-09280	6/10/2025	2	3513 / Final	355533 (5534.310)	5777886 (77882.123)	16.876	102.5	2 dry	Pass	
HDR:W25DS02359	S25DS-09281	6/10/2025	3	3516 / 2	355540 (5541.453)	5777931 (77926.716)	16.865	99	0 wet	Pass	Retest of S25DS-09208
HDR:W25DS02365	S25DS-09298	7/10/2025	1	3517 / Final	355541	5777941	-	97	0.5 dry	Pass	Retest of S25DS-09279
HDR:W25DS02498	S25DS-10035	30/10/2025	1	3522 / 1	355541 (5544.366)	5778025 (78016.472)	17.116	101	0.5 wet	Pass	
HDR:W25DS02498	S25DS-10036	30/10/2025	2	3521 / 1	355544 (5544.562)	5778008 (78000.325)	17.027	104	2.5 dry	Pass	
HDR:W25DS02607	S25DS-10498	25/11/2025	1	3524 / 2	355577 (5576.879)	5778044 (78037.527)	16.86	98	0.5 dry	Pass	
HDR:W25DS02607	S25DS-10499	25/11/2025	2	3525 / 2	355587 (5588.477)	5778042 (78036.513)	16.676	102.5	0 wet	Pass	
HDR:W25DS02642	S25DS-10634	2/12/2025	1	3526 / Final	355602 (5598.009)	5778026 (78026.696)	16.743	100.5	0 dry	Pass	

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.035 Stage 35

HILF Density Testing - Field Summary

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

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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:W26DS00007	S26DS-00054	7/01/2026	1	3502 / 1	355505 (5504.521)	5778024 (78020.365)	17.475	100.5	1.5 dry	Pass	
HDR:W26DS00013	S26DS-00068	8/01/2026	1	3503/2	355501	5778010	17.64	93	1.5 Dry	Fail	See Retest S26DS-00081
HDR:W26DS00013	S26DS-00069	8/01/2026	2	3501/3	355502	5778043	17.931	96.5	1.0 Dry	Pass	
HDR:W26DS00013	S26DS-00070	8/01/2026	3	3504/4	355491	5777991	17.97	102.5	2.5 Dry	Pass	
HDR:W26DS00019	S26DS-00080	12/01/2026	1	3501 / 3	355499 (5488.965)	5778058 (78048.799)	18.213	94	0 dry	Fail	See Retest S26DS-00481
HDR:W26DS00019	S26DS-00081	12/01/2026	2	3503 / 2	355502 (5498.976)	5778011 (780003.936)	17.601	96	0.5 dry	Pass	Retest of S26DS-00068
HDR:W26DS00019	S26DS-00082	12/01/2026	3	3505 / 4	355493 (5492.540)	5777975 (77971.119)	18.056	95	0.5 dry	Pass	
HDR:W26DS00019	S26DS-00083	12/01/2026	4	3506 / 4	355490 (5490.587)	5777958 (77954.689)	17.868	96	0.5 dry	Pass	
HDR:W26DS00078	S26DS-00268	21/01/2026	1	3501 / 4	355511	5778042	18.355	95.5	2 dry	Pass	
HDR:W26DS00088	S26DS-00291	22/01/2026	1	3501	355502 (5502.479)	5778058 (78037.970)	18.741	96	4.5 dry	Fail	See Retest S26DS-00482
HDR:W26DS00096	S26DS-00321	23/01/2026	1	3528 / 1	355615 (5631.112)	5778031 (78025.564)	FSL	98	2 dry	Pass	
HDR:W26DS00096	S26DS-00322	23/01/2026	2	3504 / Final	355488 (-)	5777987 (-)	FSL	97.5	0.5 wet	Pass	
HDR:W26DS00096	S26DS-00323	23/01/2026	3	3507 / Final	355492 (-)	5777944 (-)	FSL	97	0.5 wet	Pass	
HDR:W26DS00096	S26DS-00324	23/01/2026	4	3508 / Final	355488	5777931	FSL	95.5	0 wet	Pass	
HDR:W26DS00096	S26DS-00325	23/01/2026	5	3509 / Final	355485 (-)	5777914 (-)	FSL	97	0 wet	Pass	
HDR:W26DS00096	S26DS-00326	23/01/2026	6	3510 / Final	355481 (-)	5777900 (-)	FSL	98	3 dry	Pass	
HDR:W26DS00114	S26DS-00373	27/01/2026	1	3528 / 2	355630	5778020	16.051	97	2.5 dry	Pass	
HDR:W26DS00145	S26DS-00481	29/01/2026	1	3501 / 3	355500 (5488.965)	5778060 (78048.799)	18.196	99	2 dry	Pass	Retest of S26DS-00080
HDR:W26DS00145	S26DS-00482	29/01/2026	2	3501 / 5	355502 (5502.479)	5778058 (78037.970)	18.741	98.5	2 dry	Pass	Retest of S26DS-00291
HDR:W26DS00413	S26DS-01545	23/02/2026	1	3523 / Finsl	355550 (5550.349)	5778047 (78038.767)	17.556	101	2 dry	Pass	
HDR:W26DS00413	S26DS-01546	23/02/2026	2	3527 / Final	355620 (5618.311)	5778042 (78037.852)	16.43	97	3 dry	Pass	
HDR:W26DS00413	S26DS-01547	23/02/2026	3	3514 / Final	355520 (5521.496)	5777902 (77898.827)	17.109	95	2 dry	Pass	

Appendix C NATA compaction laboratory reports

CHADWICK GEOTECHNICS

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

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

Report No: HDR:W25DS02280
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 23/10/2025

Sample Details

Location:
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-08858					
Field Sample ID	1					
Date Tested	22/09/2025					
Time Tested	10:00					
E:	355543.14					
N:	5777807.382					
EL:	-					
Lot / Layer:	- / 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 (%)	14.3					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.98					
Field Dry Density (t/m³)	1.73					
Peak Converted Wet Density (t/m³)	2.07					
Optimum Moisture Content (%)	14.5					
Compactive Effort	Standard					
Moisture Ratio (%)	99.0					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**95.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Dandenong South
ACN 143 009 330
25 Metcalf Street
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Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS02290
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 23/10/2025

Sample Details

Location:
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	S25DS-08909					
Field Sample ID	1					
Date Tested	23/09/2025					
Time Tested	10:45					
E:	- (5519.366)					
N:	- (77793.440)					
EL:	-					
Lot / Layer:	- / 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 (%)	14.8					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.95					
Field Dry Density (t/m³)	1.70					
Peak Converted Wet Density (t/m³)	2.13					
Optimum Moisture Content (%)	14.5					
Compactive Effort	Standard					
Moisture Ratio (%)	101.5					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**91.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02306
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 23/10/2025

Sample Details

Location:
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-08965	S25DS-08966	S25DS-08967			
Field Sample ID	1	2	3			
Date Tested	24/09/2025	24/09/2025	24/09/2025			
E:	355520	355548	355520			
N:	5777798	5777844	577749			
EL:	-	-	-			
Lot / Layer:	- / 2	- / 1	- / 2			
		Retest of S25DS-08909				

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 (%)	13.1	15.3	14.6			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	2.16	2.12	2.12			
Field Dry Density (t/m³)	1.91	1.84	1.85			
Peak Converted Wet Density (t/m³)	2.07	2.08	2.07			
Optimum Moisture Content (%)	15.0	16.5	16.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	87.5	91.0	89.0			
Moisture Variation (%)	2.0 dry	1.5 dry	2.0 dry			
Hilf Density Ratio (%)	**104.5**	**102.0**	**102.5**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02315
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 9/10/2025

Sample Details

Location:
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-09017	S25DS-09018	S25DS-09019			
Field Sample ID	1	2	3			
Date Tested	25/09/2025	25/09/2025	25/09/2025			
Time Tested	10:15	13:20	15:00			
E:	355479 (5479.740)	355536 (5535.470)	355546 (5540.227)			
N:	5777878 (77879.285)	5777871 (77869.456)	5777914 (77912.528)			
EL:	-	-	-			
Lot / Layer:	3511 / 1	3512 / 1	3515 / 1			

Field and Laboratory Data

Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	18.0	22.7	17.5			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	2.17	2.08	2.11			
Field Dry Density (t/m³)	1.84	1.69	1.80			
Peak Converted Wet Density (t/m³)	2.05	2.01	2.09			
Optimum Moisture Content (%)	17.5	23.0	17.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	101.5	99.5	100.5			
Moisture Variation (%)	0.5 wet	0.0	0.0			
Hilf Density Ratio (%)	**106.0**	**103.5**	**101.0**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Fax: +61 3 9706 9431

Report No: HDR:W25DS02341
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 7/04/2026

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-09191	S25DS-09192				
Field Sample ID	1	2				
Date Tested	2/10/2025	2/10/2025				
Time Tested	12:00	12:10				
E:	355548 (5545.735)	355555 (5553.915)				
N:	5777958 (77949.091)	5777988 (77980.452)				
EL:	16.721	16.732				
Lot / Layer:	3518 / 1	3520 / 1				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	19.3	26.1				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.93	1.86				
Field Dry Density (t/m³)	1.61	1.47				
Peak Converted Wet Density (t/m³)	2.02	1.88				
Optimum Moisture Content (%)	19.0	28.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.5	93.0				
Moisture Variation (%)	0.5 wet	2.0 dry				
Hilf Density Ratio (%)	**95.0**	**99.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02346
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 9/10/2025

Sample Details

Location:
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-09207	S25DS-09208				
Field Sample ID	1	2				
Date Tested	3/10/2025	3/10/2025				
Time Tested	11:20	11:35				
E:	355552 (5548.874)	355543 (5541.453)				
N:	5777975 (77966.692)	5777931 (77926.713)				
EL:	17.028	16.865				
Lot / Layer:	3159 / 2	3516 / 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 (%)	19.8	18.8				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.96	1.92				
Field Dry Density (t/m³)	1.64	1.61				
Peak Converted Wet Density (t/m³)	1.94	2.11				
Optimum Moisture Content (%)	22.5	19.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	89.0	100.0				
Moisture Variation (%)	2.5 dry	0.0				
Hilf Density Ratio (%)	**101.5**	**91.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02359
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 9/10/2025

Sample Details

Location:
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-09279	S25DS-09280	S25DS-09281			
Field Sample ID	1	2	3			
Date Tested	6/10/2025	6/10/2025	6/10/2025			
Time Tested	12:45	13:00	14:40			
E:	355539 (5542.667)	355533 (5534.310)	355540 (5541.453)			
N:	5777934 (77939.464)	5777886 (77882.123)	5777931 (77926.716)			
EL:	17.238	16.876	16.865			
Lot / Layer:	3517 / Final	3513 / Final	3516 / 2			
			Retest of S25DS-09208			

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 (%)	18.3	14.4	18.9			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.91	2.10	2.04			
Field Dry Density (t/m³)	1.61	1.84	1.72			
Peak Converted Wet Density (t/m³)	2.06	2.06	2.07			
Optimum Moisture Content (%)	18.5	16.5	19.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	98.5	88.5	100.5			
Moisture Variation (%)	0.5 dry	2.0 dry	0.0			
Hilf Density Ratio (%)	**92.5**	**102.5**	**99.0**			

Comments

Results relate only to the items tested/sampled.

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Report No: HDR:W25DS02365
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 9/10/2025

Sample Details

Location:
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-09298					
Field Sample ID	1					
Date Tested	7/10/2025					
Time Tested	12:10					
E:	355541					
N:	5777941					
EL:	-					
Lot / Layer:	3517 / Final					
	Retest of S25DS-09279					

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 (%)	16.5					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.05					
Field Dry Density (t/m³)	1.76					
Peak Converted Wet Density (t/m³)	2.11					
Optimum Moisture Content (%)	17.0					
Compactive Effort	Standard					
Moisture Ratio (%)	98.5					
Moisture Variation (%)	0.5 dry					
Hilf Density Ratio (%)	**97.0**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02498
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-10035	S25DS-10036				
Field Sample ID	1	2				
Date Tested	30/10/2025	30/10/2025				
Time Tested	09:20	09:35				
E:	355541 (5544.366)	355544 (5544.562)				
N:	5778025 (78016.472)	5778008 (78000.325)				
EL:	17.116	17.027				
Lot / Layer:	3522 / 1	3521 / 1				

Field and Laboratory Data

Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	16.5	15.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.06	2.08				
Field Dry Density (t/m³)	1.77	1.81				
Peak Converted Wet Density (t/m³)	2.04	2.00				
Optimum Moisture Content (%)	16.0	17.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.0	85.0				
Moisture Variation (%)	0.5 wet	2.5 dry				
Hilf Density Ratio (%)	**101.0**	**104.0**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS02607
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-10498	S25DS-10499				
Field Sample ID	1	2				
Date Tested	25/11/2025	25/11/2025				
Time Tested	14:46	15:00				
E:	355577 (5576.879)	355587 (5588.477)				
N:	5778044 (78037.527)	5778042 (78036.513)				
EL:	16.86	16.676				
Lot / Layer:	3524 / 2	3525 / 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 (%)	16.7	18.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.10	2.07				
Field Dry Density (t/m³)	1.80	1.75				
Peak Converted Wet Density (t/m³)	2.14	2.02				
Optimum Moisture Content (%)	17.0	18.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	98.5	100.0				
Moisture Variation (%)	0.5 dry	0.0				
Hilf Density Ratio (%)	**98.0**	**102.5**				

Comments

Results relate only to the items tested/sampled.

Dandenong South
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Report No: HDR:W25DS02642
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-10634					
Field Sample ID	1					
Date Tested	2/12/2025					
Time Tested	15:35					
E:	355602 (5598.009)					
N:	5778006 (78026.696)					
EL:	16.743					
Lot / Layer:	3526 / Final					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	16.7					
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)	2.08					
Optimum Moisture Content (%)	17.0					
Compactive Effort	Standard					
Moisture Ratio (%)	100.0					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**100.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Dandenong South
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Report No: HDR:W26DS00007
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-00054					
Field Sample ID	1					
Date Tested	7/01/2026					
Time Tested	08:30					
E:	355505 (5504.521)					
N:	5778024 (78020.365)					
EL:	17.475					
Lot / Layer:	3502 / 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 (%)	21.3					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.98					
Field Dry Density (t/m³)	1.63					
Peak Converted Wet Density (t/m³)	1.97					
Optimum Moisture Content (%)	23.0					
Compactive Effort	Standard					
Moisture Ratio (%)	92.5					
Moisture Variation (%)	1.5 dry					
Hilf Density Ratio (%)	**100.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W26DS00013
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

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

Sample Data

Sample ID	S26DS-00068	S26DS-00069	S26DS-00070			
Field Sample ID	1	2	3			
Date Tested	8/01/2026	8/01/2026	8/01/2026			
Time Tested	09:30	12:00	16:10			
E:	355501	355502	355491			
N:	5778010	5778043	5777991			
EL:	17.64	17.931	17.970			
Lot / Layer:	3503 / 2	3501 / 3	3504 / 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 (%)	14.0	15.5	16.8			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.92	1.92	1.97			
Field Dry Density (t/m³)	1.69	1.66	1.68			
Peak Converted Wet Density (t/m³)	2.07	2.03	1.92			
Optimum Moisture Content (%)	15.5	16.5	19.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	90.5	95.0	87.0			
Moisture Variation (%)	1.5 dry	1.0 dry	2.5 dry			
Hilf Density Ratio (%)	**93.0**	**94.0**	**102.5**			

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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

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

Report No: HDR:W26DS00019
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-00080	S26DS-00081	S26DS-00082	S26DS-00083		
Field Sample ID	1	2	3	4		
Date Tested	12/01/2026	12/01/2026	12/01/2026	12/01/2026		
Time Tested	09:00	09:20	15:20	15:00		
E:	355499 (5488.965)	355502 (5498.976)	355493 (5492.540)	355490 (5490.587)		
N:	5778058 (78048.799)	5778011 (780003.936)	5777975 (77971.119)	5777958 (77954.689)		
EL:	18.213	17.601	18.056	17.868		
Lot / Layer:	3501 / 3	3503 / 2	3505 / 4	3506 / 4		
		Retest of S26DS-00068				
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 (%)	13.4	15.1	13.6	12.8		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.95	1.98	2.00	2.03		
Field Dry Density (t/m³)	1.72	1.72	1.76	1.80		
Peak Converted Wet Density (t/m³)	2.08	2.06	2.10	2.11		
Optimum Moisture Content (%)	13.5	15.5	14.5	13.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	98.5	97.5	95.0	97.0		
Moisture Variation (%)	0.0	0.5 dry	0.5 dry	0.5 dry		
Hilf Density Ratio (%)	**94.0**	**96.0**	**95.0**	**96.0**		

Comments

Results relate only to the items tested/sampled.

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

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

Report No: HDR:W26DS00078
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 7/04/2026

Sample Details

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

Sample Data

Sample ID	S26DS-00268					
Field Sample ID	1					
Date Tested	21/01/2026					
Time Tested	12:15					
E:	355511 (5508.068)					
N:	5778042 (78034.043)					
EL:	18.355					
Lot / Layer:	3501 / 4					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	12.3					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.97					
Field Dry Density (t/m³)	1.76					
Peak Converted Wet Density (t/m³)	2.06					
Optimum Moisture Content (%)	14.5					
Compactive Effort	Standard					
Moisture Ratio (%)	84.5					
Moisture Variation (%)	2.0 dry					
Hilf Density Ratio (%)	**95.5**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
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25 Metcalf Street
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Report No: HDR:W26DS00088
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-00291					
Field Sample ID	1					
Date Tested	22/01/2026					
Time Tested	13:40					
E:	355394 (5502.479)					
N:	5777857 (78037.970)					
EL:	18.741					
Lot / Layer:	3501 / 5					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	12.1					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.90					
Field Dry Density (t/m³)	1.70					
Peak Converted Wet Density (t/m³)	1.98					
Optimum Moisture Content (%)	16.5					
Compactive Effort	Standard					
Moisture Ratio (%)	73.0					
Moisture Variation (%)	4.5 dry					
Hilf Density Ratio (%)	**96.0**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W26DS00096
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 7/04/2026

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-00321	S26DS-00322	S26DS-00323	S26DS-00324	S26DS-00325	S26DS-00326
Field Sample ID	1	2	3	4	5	6
Date Tested	23/01/2026	23/01/2026	23/01/2026	23/01/2026	23/01/2026	23/01/2026
Time Tested	08:48	09:00	09:10	09:15	09:30	09:40
E:	355615 (5631.112)	355488 (-)	355492 (-)	355488 (-)	355485 (-)	355481 (-)
N:	5778031 (78025.564)	5777987 (-)	5777944 (-)	5777931 (-)	5777914 (-)	5777900 (-)
EL:	15.807	-	-	-	-	-
Lot / Layer:	3528 / 1	3504 / Final	3507 / Final	3508 / Final	3509 / Final	3510 / Final
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	12.2	16.4	18.7	15.2	19.4	12.7
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
Field Wet Density (t/m³)	2.02	2.05	1.97	1.97	1.98	1.95
Field Dry Density (t/m³)	1.80	1.76	1.66	1.71	1.66	1.73
Peak Converted Wet Density (t/m³)	2.06	2.09	2.03	2.06	2.05	1.99
Optimum Moisture Content (%)	14.5	16.0	18.5	15.0	19.5	15.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	85.5	102.0	101.5	100.0	101.0	81.0
Moisture Variation (%)	2.0 dry	0.5 wet	0.5 wet	0.0	0.0	3.0 dry
Hilf Density Ratio (%)	**98.0**	**97.5**	**97.0**	**95.5**	**97.0**	**98.0**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Think Act Be Safe

Dandenong South
ACN 143 009 330
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Report No: HDR:W26DS00114
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-00373					
Field Sample ID	1					
Date Tested	27/01/2026					
Time Tested	09:45					
E:	- (5628.214)					
N:	- (78018.370)					
EL:	16.051					
Lot / Layer:	3528 / 2					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	12.7					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.97					
Field Dry Density (t/m³)	1.75					
Peak Converted Wet Density (t/m³)	2.04					
Optimum Moisture Content (%)	15.0					
Compactive Effort	Standard					
Moisture Ratio (%)	84.5					
Moisture Variation (%)	2.5 dry					
Hilf Density Ratio (%)	**97.0**					

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
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Report No: HDR:W26DS00145
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-00481	S26DS-00482				
Field Sample ID	1	2				
Date Tested	29/01/2026	29/01/2026				
Time Tested	08:30	09:00				
E:	355500 (5488.965)	355394 (5502.479)				
N:	578060 (78048.799)	5777857 (78037.970)				
EL:	18.196	18.741				
Lot / Layer:	3501 / 3	35.01 / 5				
	Retest of S26DS-00080	Retest of S26DS-00291				

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 (%)	11.1	12.2				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.03	2.03				
Field Dry Density (t/m³)	1.83	1.81				
Peak Converted Wet Density (t/m³)	2.05	2.07				
Optimum Moisture Content (%)	13.0	14.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	84.0	85.5				
Moisture Variation (%)	2.0 dry	2.0 dry				
Hilf Density Ratio (%)	**99.0**	**98.5**				

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Think Act Safe Be

Dandenong South
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Report No: HDR:W26DS00413
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Location:
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-01545	S26DS-01546	S26DS-01547			
Field Sample ID	1	2	3			
Date Tested	23/02/2026	23/02/2026	23/02/2026			
Time Tested	11:30	11:45	12:00			
E:	355550 (5550.349)	355620 (5618.311)	355520 (5521.496)			
N:	5778047 (78038.767)	5778042 (78037.852)	5777902 (77898.827)			
EL:	17.556	16.430	17.109			
Lot / Layer:	3523 / Finsl	3527 / Final	3514 / Final			

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 (%)	11.2	12.8	22.1			
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	1.96	1.90			
Field Dry Density (t/m³)	1.88	1.73	1.55			
Peak Converted Wet Density (t/m³)	2.07	2.02	1.99			
Optimum Moisture Content (%)	13.0	15.5	24.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	85.5	82.0	91.5			
Moisture Variation (%)	2.0 dry	3.0 dry	2.0 dry			
Hilf Density Ratio (%)	**101.0**	**97.0**	**95.0**			

Comments

Results relate only to the items tested/sampled.

Appendix D NATA compliance laboratory report

CHADWICK GEOTECHNICS

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

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

Report No: MAT:S26DS-00055/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Sample Location	E: 355505 (5504.521), N: 5778024 (78020.365), EL: 17.475, Lot: 3502, Layer: 1
Field Sample ID	1
Date Sampled	7/01/2025
Time Sampled	08:30
Source	Onsite
Material	Clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S26DS-00055

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	13.7	
Date Tested		12/01/2026	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	11.5	
Mould Length (mm)		250	
Crumbling		No	
Curling		Yes	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	45	
Plastic Limit (%)	AS 1289.3.2.1	16	
Plasticity Index (%)	AS 1289.3.3.1	29	
Date Tested		14/01/2026	

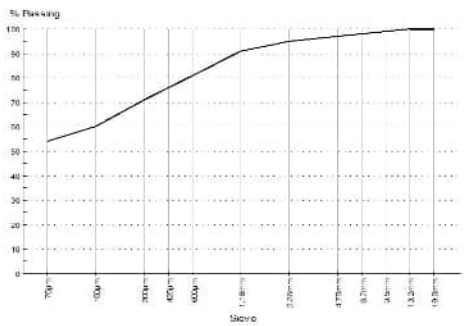
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 13/01/2026

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	100	
9.5mm	99	
6.7mm	98	
4.75mm	97	
2.36mm	95	
1.18mm	91	
600µm	81	
425µm	76	
300µm	71	
150µm	60	
75µm	54	

Chart



Comments

Results relate only to the items tested/sampled.

Dandenong South
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DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
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Report No: MAT:S26DS-00327/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 35
Project No.: 1091938.035
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

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

Sample Details

Sample Location	E: 355492, N: 5777944, EL: -, Lot: 3507, Layer: Final
Field Sample ID	1
Date Sampled	23/01/2026
Time Sampled	09:10
Source	Onsite
Material	Clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S26DS-00327

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	15.2	
Date Tested		27/01/2026	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	11.5	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	36	
Plastic Limit (%)	AS 1289.3.2.1	16	
Plasticity Index (%)	AS 1289.3.3.1	20	
Date Tested		6/02/2026	

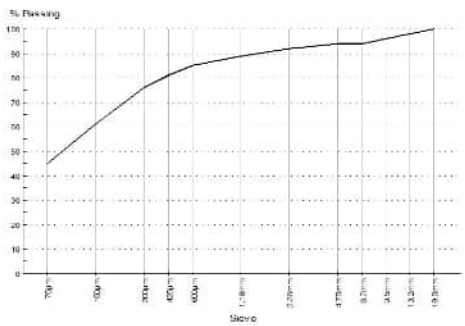
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 29/01/2026

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	98	
9.5mm	96	
6.7mm	94	
4.75mm	94	
2.36mm	92	
1.18mm	89	
600µm	85	
425µm	81	
300µm	76	
150µm	61	
75µm	45	

Chart



Comments

Results relate only to the items tested/sampled.

Appendix E Controlled fill certificate

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Riverfield Square Stage 35,
Lots 3501 to Lot 3528.

Chadwick Geotechnics REF: 1091938.033v1

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

DATE: 27 March 2026

SUMMARY

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

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

LIMITATIONS

This Certificate has been commissioned for the filling of the lots mentioned above and is based on the site conditions present at the time of the inspections (22 September 2025 and 23 February 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

CHADWICK
GEOTECHNICS