



# REPORT

## Level One Inspection and Testing Services

Meridian Estate Stage 16, Lot's 1601 to  
1656.

Prepared for:

Grosvenor Lodge Pty Ltd

August 2019

Our Ref: 3807351.016.v1

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## Document Control

| Title: Level One Inspection and Testing Services |         |                                     |              |              |                |
|--|---------|-------------------------------------|--------------|--------------|----------------|
| Date   | Version | Description                         | Prepared by: | Reviewed by: | Authorised by: |
| 19-08-19   | 1       | Level One report,<br>3807351.016.v1 | DH           | RHB          | TJC            |
|  |         |                                     |              |              |                |
|  |         |                                     |              |              |                |

Distribution:

Grosvenor Lodge Pty Ltd

Chadwick Geotechnics Pty Ltd (FILE)

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## 1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) was engaged by Grosvenor Lodge Pty Ltd, to provide Level 1 Inspection and testing services for the earthworks within Stage 16 of the Meridian Estate in Clyde North.

## 2 Project details

The project included the preparation and filling of lot's 1601 to 1656. The specification required the earthworks to be completed under Level 1 Supervision that is, full-time Inspection and Testing of the earthworks. Chadwick Geotechnics were onsite for the duration of the earthworks program.

The location of the site is shown in figure 1 below.



Figure 1: Approximate site location (Image sourced from Nearmaps)

### 3 Geology

Published information<sup>1</sup> shows that the site is underlain by various geologies listed as follows;

- Quaternary Age Unnamed dune deposits Formation (Qd1) comprising of sand, clay and calcareous sand.
- Quaternary Age Unnamed swamp and lake deposits Formation (Qm1) comprising of silt and clay.
- Palaeozoic Age Murrindindi Supergroup (Sm) comprising of mudstone and sandstone
- Neogene Age Baxter Sandstone Formation (Nxx) comprising of sandstone, conglomerate, siltstone and ironstone.

### 4 Specification

A summary of the specification is shown below:

|                        |                          |
|------------------------|--------------------------|
| Compaction Requirement | 95 % Standard Compaction |
|------------------------|--------------------------|

### 5 Inspection and testing

The inspection and testing of earthworks has 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 a type one project (large scale operation). Compaction control laboratory testing was undertaken in our NATA accredited Dandenong South laboratory in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

Prior to fill being placed the subgrade was inspected. The inspections were performed in accordance with the Level 1 guidelines presented in AS 3798–2007 Section 5.5. No soft spots were encountered during the inspections, the area was found to be firm and free of vegetation and other deleterious material.

Full time Level 1 Inspection and testing of the filling operations commenced on the 25th September 2018 to the 13th February 2019. During this period Chadwick Geotechnics observed the works, including the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill material.

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

Field density and moisture content testing was carried out using a calibrated nuclear density gauge in accordance with AS 1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS 1289.5.7.1. Test locations were recorded using a handheld GPS unit. A site plan showing the field density test locations is provided in Appendix A.

<sup>1</sup> BIBBY, L.M., 2004. Simplified 1: 4 000 000 Geology of Victoria. Geological Survey of Victoria Special Publication. GeoScience Victoria.

A total of one hundred and eleven (111) tests were performed during the filling process.

The results show that four (4) tests failed to meet the specification requirements for the project. The earthworks contractor was advised of the tests that failed and the fill relevant to those areas was reworked, reconditioned, re-compacted and subsequently retested. The final results show the tests achieved the specification requirements for the project.

A summary table of Hilf density tests is provided in Appendix B and the laboratory test reports and individual Fill Certificates are provided in Appendix C and D.

## 6 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 able to be determined, that:

- The materials used by the earthworks contractor met the geotechnical property requirements of the specification.
- The sourced fill was considered to be natural and clean and suitable for use at the site.
- The fill material placed was tested at a suitable frequency in accordance with AS 3798-2007- Table 8.1 and the results indicate the compacted clay achieved the density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor and as witnessed by the Chadwick Geotechnics, combined with the satisfactory verification of test results achieved, it is inferred that areas of the site between test locations were performed to the same standard as those areas that have been tested.

It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 of AS3798-2007 - Level 1 Inspection and Testing.

## 7 Applicability

This report has been prepared for the exclusive use of our client Grosvenor Lodge 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 conditions present in, factors affecting the soil at the time of the inspections, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

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

Chadwick Geotechnics Pty Ltd

Report prepared by:

Authorised for Chadwick Geotechnics Pty Ltd by:



.....  
Robert Barden

.....  
Timothy Chadwick

Geotechnical Engineer

Project Director

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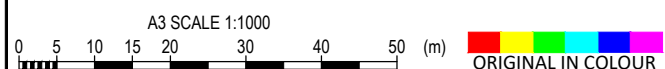
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## Appendix A: Density Test Location Plan

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NOTES:  
 1. ROAD AND DRAINAGE PLAN RECEIVED BY BROWN PROPERTY GROUP. REF: 8129-16-E-R&D-P4-Road & Drainage plans. DATE: 13/02/2019.

|                     |     |        |
|---------------------|-----|--------|
| PROJECT No. 3807351 |     |        |
| DESIGNED            | XX  | Aug.19 |
| DRAWN               | MLM | Aug.19 |
| CHECKED             |     |        |
| APPROVED            |     | DATE   |

|            |  |
|------------|--|
| CLIENT     | GROSVENER LODGE PTY LTD                                    |
| PROJECT    | MERIDIAN ESTATE - STAGE 16                                 |
| TITLE      | <b>UNDER REVISION 1</b><br>HILF DENSITY TEST LOCATION PLAN |
| SCALE (A3) | AS SHOWN   |
| FIG No.    | FIGURE 1   |
| REV        | 1  |

## Appendix B: Table of field density results

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## Hilf Summary Table

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| Report No      | Sample No | Date       | Test Number | Location [E] | Location [N] | Layer | Density Ratio<br>HILF test (≥95%) | Moisture Variation<br>From OMC (±3%) | Pass / Fail | Remarks       |
|----------------|-----------|------------|-------------|--------------|--------------|-------|-----------------------------------|--------------------------------------|-------------|---------------|
| HDR:W18DS02858 | 10966     | 25/09/2018 | 1           | 355725       | 5782138      | 1     | 98.5                              | 2 dry                                | Pass        |               |
| HDR:W18DS02858 | 10967     | 25/09/2018 | 2           | 355756       | 5782138      | 2     | 101.5                             | 0.5 dry                              | Pass        |               |
| HDR:W18DS02879 | 11042     | 26/09/2018 | 1           | 355728       | 5782132      | 5     | 98.5                              | 2 dry                                | Pass        |               |
| HDR:W18DS02879 | 11043     | 26/09/2018 | 2           | 355737       | 5782139      | 4     | 96.5                              | 0.5 dry                              | Pass        |               |
| HDR:W18DS02879 | 11044     | 26/09/2018 | 3           | 355749       | 5782140      | 3     | 101.5                             | 0 wet                                | Pass        |               |
| HDR:W18DS02910 | 11135     | 1/10/2018  | 1           | 355737       | 5782114      | 6     | 98                                | 2 dry                                | Pass        |               |
| HDR:W18DS02910 | 11136     | 1/10/2018  | 2           | 355744       | 5782137      | 7     | 99                                | 1 dry                                | Pass        |               |
| HDR:W18DS03300 | 12732     | 12/11/2018 | 1           | 355784       | 5782187      | 2     | 98                                | 0.5 wet                              | Pass        |               |
| HDR:W18DS03300 | 12733     | 12/11/2018 | 2           | 355791       | 5782201      | 1     | 102                               | 0.5 wet                              | Pass        |               |
| HDR:W18DS03319 | 12816     | 13/11/2018 | 1           | 355788       | 5782219      | 3     | 99                                | 2.5 wet                              | Pass        |               |
| HDR:W18DS03319 | 12817     | 13/11/2018 | 2           | 355813       | 5782218      | 3     | 98.5                              | 0 wet                                | Pass        |               |
| HDR:W18DS03338 | 12910     | 14/11/2018 | 1           | 355788       | 5782229      | 4     | 99.5                              | 0.5 wet                              | Pass        |               |
| HDR:W18DS03338 | 12911     | 14/11/2018 | 2           | 355801       | 5782213      | 4     | 100                               | 0.5 wet                              | Pass        |               |
| HDR:W18DS03354 | 12975     | 15/11/2018 | 1           | 355794       | 5782206      | 5     | 101.5                             | 1 dry                                | Pass        |               |
| HDR:W18DS03354 | 12976     | 15/11/2018 | 2           | 355776       | 5782222      | 5     | 99                                | 0.5 dry                              | Pass        |               |
| HDR:W18DS03379 | 13090     | 16/11/2018 | 1           | 355793       | 5782236      | 6     | 96                                | 0.5 wet                              | Pass        |               |
| HDR:W18DS03411 | 13258     | 19/11/2018 | 1           | 355766       | 5782195      | 7     | 103                               | 0 dry                                | Pass        |               |
| HDR:W18DS03411 | 13259     | 19/11/2018 | 2           | 355762       | 5782198      | 6     | 104                               | 0.5 wet                              | Pass        |               |
| HDR:W18DS03498 | 13659     | 28/11/2018 | 1           | 355802       | 5782162      | 1     | 100                               | 0 wet                                | Pass        |               |
| HDR:W18DS03498 | 13660     | 28/11/2018 | 2           | 355784       | 5782156      | 2     | 98                                | 0 wet                                | Pass        |               |
| HDR:W18DS03498 | 13661     | 28/11/2018 | 3           | 355771       | 5782169      | 2     | 94.5                              | 0.5 wet                              | Fail        | See retest 69 |
| HDR:W18DS03498 | 13662     | 28/11/2018 | 4           | 355816       | 5782197      | 1     | 98.5                              | 0 wet                                | Pass        |               |
| HDR:W18DS03514 | 13723     | 29/11/2018 | 1           | 355787       | 5782223      | 7     | 102                               | 2 dry                                | Pass        |               |
| HDR:W18DS03604 | 14141     | 7/12/2018  | 1           | 355788       | 5782168      | 3     | 95.5                              | 0.5 wet                              | Pass        |               |
| HDR:W18DS03604 | 14142     | 7/12/2018  | 2           | 355833       | 5782200      | 3     | 96.5                              | 1 wet                                | Pass        |               |

| Report No      | Sample No | Date       | Test Number | Location [E] | Location [N] | Layer | Density Ratio<br>HILF test (≥95%) | Moisture Variation<br>From OMC (±3%) | Pass / Fail | Remarks         |
|----------------|-----------|------------|-------------|--------------|--------------|-------|-----------------------------------|--------------------------------------|-------------|-----------------|
| HDR:W18DS03644 | 14265     | 11/12/2018 | 1           | 355781       | 5782169      | 4     | 100                               | 0 wet                                | Pass        |                 |
| HDR:W18DS03644 | 14266     | 11/12/2018 | 2           | 355803       | 5782184      | 4     | 96                                | 1 wet                                | Pass        |                 |
| HDR:W19DS00014 | 49        | 7/01/2019  | 1           | 355841       | 5782180      | 1     | 100                               | 0.5 dry                              | Pass        |                 |
| HDR:W19DS00019 | 67        | 8/01/2019  | 1           | 355851       | 578215       | 1     | 96.5                              | 2 wet                                | Pass        |                 |
| HDR:W19DS00019 | 68        | 8/01/2019  | 2           | 355838       | 5782149      | 3     | 95                                | 0 wet                                | Pass        |                 |
| HDR:W19DS00019 | 69        | 8/01/2019  | 3           | 355836       | 5782150      | 2     | 95.5                              | 2 wet                                | Pass        | Retest of 13661 |
| HDR:W19DS00019 | 70        | 8/01/2019  | 4           | 355821       | 578219       | 2     | 95                                | 0 dry                                | Pass        |                 |
| HDR:W19DS00019 | 71        | 8/01/2019  | 5           | 355818       | 5782131      | 3     | 95                                | 0 dry                                | Pass        |                 |
| HDR:W19DS00025 | 83        | 9/01/2019  | 1           | 355845       | 5782195      | 5     | 96                                | 1.5 wet                              | Pass        |                 |
| HDR:W19DS00025 | 84        | 9/01/2019  | 2           | 355822       | 5782163      | 5     | 93.5                              | 3 wet                                | Fail        | See retest 138  |
| HDR:W19DS00025 | 85        | 9/01/2019  | 3           | 355851       | 5782192      | 4     | 96                                | 1 wet                                | Pass        |                 |
| HDR:W19DS00025 | 86        | 9/01/2019  | 4           | 355846       | 5782132      | 2     | 99                                | 2 wet                                | Pass        |                 |
| HDR:W19DS00025 | 87        | 9/01/2019  | 5           | 355824       | 5782165      | 4     | 96.5                              | 2 wet                                | Pass        |                 |
| HDR:W19DS00025 | 88        | 9/01/2019  | 6           | 355848       | 5782135      | 1     | 100                               | 2 wet                                | Pass        |                 |
| HDR:W19DS00025 | 89        | 9/01/2019  | 7           | 355854       | 5782105      | 1     | 95.5                              | 0 wet                                | Pass        |                 |
| HDR:W19DS00025 | 90        | 9/01/2019  | 8           | 355850       | 5782107      | 2     | 97                                | 2 wet                                | Pass        |                 |
| HDR:W19DS00034 | 131       | 10/01/2019 | 1           | 355873       | 5782144      | 3     | 102.5                             | 1.5 dry                              | Pass        |                 |
| HDR:W19DS00034 | 132       | 10/01/2019 | 2           | 355849       | 5782118      | 3     | 98                                | 0 wet                                | Pass        |                 |
| HDR:W19DS00034 | 133       | 10/01/2019 | 3           | 355871       | 5782145      | 3     | 96                                | 2.5 wet                              | Pass        |                 |
| HDR:W19DS00034 | 134       | 10/01/2019 | 4           | 355852       | 5782189      | 6     | 96                                | 0.5 dry                              | Pass        |                 |
| HDR:W19DS00034 | 135       | 10/01/2019 | 5           | 355855       | 5782187      | 7     | 96.5                              | 1 wet                                | Pass        |                 |
| HDR:W19DS00034 | 136       | 10/01/2019 | 6           | 355838       | 5782158      | 7     | 96                                | 0.5 wet                              | Pass        |                 |
| HDR:W19DS00034 | 137       | 10/01/2019 | 7           | 355841       | 5782160      | 6     | 95.5                              | 0 wet                                | Pass        |                 |
| HDR:W19DS00034 | 138       | 10/01/2019 | 8           | 355823       | 5782165      | 5     | 97.5                              | 0.5 wet                              | Pass        | Retest of 84    |
| HDR:W19DS00034 | 139       | 10/01/2019 | 9           | 355870       | 5782136      | 4     | 99                                | 0.5 wet                              | Pass        |                 |

## Hilf Summary Table

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| Report No      | Sample No | Date       | Test Number | Location [E] | Location [N] | Layer | Density Ratio<br>HILF test (≥95%) | Moisture Variation<br>From OMC (±3%) | Pass / Fail | Remarks |
|----------------|-----------|------------|-------------|--------------|--------------|-------|-----------------------------------|--------------------------------------|-------------|---------|
| HDR:W19DS00034 | 140       | 10/01/2019 | 10          | 355859       | 578117       | 4     | 97.5                              | 1 wet                                | Pass        |         |
| HDR:W19DS00044 | 165       | 11/01/2019 | 1           | 355878       | 5782144      | 5     | 99                                | 0 wet                                | Pass        |         |
| HDR:W19DS00044 | 166       | 11/01/2019 | 2           | 355897       | 5782074      | 1     | 99.5                              | 0.5 wet                              | Pass        |         |
| HDR:W19DS00044 | 168       | 11/01/2019 | 3           | 355880       | 5782103      | 1     | 100                               | 1 wet                                | Pass        |         |
| HDR:W19DS00044 | 169       | 11/01/2019 | 4           | 355880       | 5782101      | 2     | 102                               | 1 wet                                | Pass        |         |
| HDR:W19DS00044 | 167       | 11/01/2019 | 5           | 355899       | 5782076      | 2     | 97.5                              | 0 dry                                | Pass        |         |
| HDR:W19DS00052 | 203       | 14/01/2019 | 1           | 355873       | 5782100      | 4     | 95.5                              | 0.5 wet                              | Pass        |         |
| HDR:W19DS00052 | 204       | 14/01/2019 | 2           | 355893       | 5782087      | 3     | 96.5                              | 2 dry                                | Pass        |         |
| HDR:W19DS00052 | 205       | 14/01/2019 | 3           | 355912       | 5782111      | 3     | 98                                | 2 wet                                | Pass        |         |
| HDR:W19DS00052 | 206       | 14/01/2019 | 4           | 355904       | 5782128      | 4     | 96.5                              | 2 wet                                | Pass        |         |
| HDR:W19DS00068 | 263       | 15/01/2019 | 1           | 355808       | 5782084      | 2     | 95.5                              | 0 wet                                | Pass        |         |
| HDR:W19DS00068 | 264       | 15/01/2019 | 2           | 355806       | 5782082      | 1     | 96                                | 0.5 wet                              | Pass        |         |
| HDR:W19DS00068 | 265       | 15/01/2019 | 3           | 355849       | 5782080      | 1     | 99.5                              | 0 wet                                | Pass        |         |
| HDR:W19DS00068 | 266       | 15/01/2019 | 4           | 355852       | 5782078      | 2     | 98                                | 2.5 wet                              | Pass        |         |
| HDR:W19DS00068 | 267       | 15/01/2019 | 5           | 355878       | 5782089      | 5     | 96.5                              | 0.5 dry                              | Pass        |         |
| HDR:W19DS00068 | 268       | 15/01/2019 | 6           | 355893       | 5782112      | 5     | 99                                | 0.5 dry                              | Pass        |         |
| HDR:W19DS00086 | 359       | 16/01/2019 | 1           | 355889       | 5782125      | 6     | 101                               | 2.5 wet                              | Pass        |         |
| HDR:W19DS00086 | 360       | 16/01/2019 | 2           | 355889       | 5782081      | 6     | 96.5                              | 3 wet                                | Pass        |         |
| HDR:W19DS00086 | 361       | 16/01/2019 | 3           | 355852       | 5782074      | 3     | 97.5                              | 3 wet                                | Pass        |         |
| HDR:W19DS00086 | 362       | 16/01/2019 | 4           | 355823       | 5782098      | 3     | 95.5                              | 1.5 wet                              | Pass        |         |
| HDR:W19DS00086 | 363       | 16/01/2019 | 5           | 355788       | 5782102      | 2     | 98                                | 0.5 wet                              | Pass        |         |
| HDR:W19DS00086 | 364       | 16/01/2019 | 6           | 355785       | 5782124      | 1     | 97                                | 2.5 wet                              | Pass        |         |
| HDR:W19DS00103 | 422       | 17/01/2019 | 1           | 355871       | 5782073      | 4     | 100                               | 0 wet                                | Pass        |         |
| HDR:W19DS00103 | 423       | 17/01/2019 | 2           | 35587        | 5782098      | 3     | 97.5                              | 3 wet                                | Pass        |         |
| HDR:W19DS00103 | 424       | 17/01/2019 | 3           | 355893       | 5782113      | 7     | 96.5                              | 0.5 wet                              | Pass        |         |

## Hilf Summary Table

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| Report No      | Sample No | Date       | Test Number | Location [E] | Location [N] | Layer | Density Ratio<br>HILF test ( $\geq 95\%$ ) | Moisture Variation<br>From OMC ( $\pm 3\%$ ) | Pass / Fail | Remarks        |
|----------------|-----------|------------|-------------|--------------|--------------|-------|--|--|-------------|----------------|
| HDR:W19DS00103 | 425       | 17/01/2019 | 4           | 355909       | 5782042      | 7     | 102  | 0 dry  | Pass        |                |
| HDR:W19DS00103 | 426       | 17/01/2019 | 5           | 355864       | 5782099      | 7     | 101  | 0 wet  | Pass        |                |
| HDR:W19DS00138 | 529       | 18/01/2019 | 1           | 355797       | 5782122      | 4     | 96.5                                       | 2.5 wet                                      | Pass        |                |
| HDR:W19DS00138 | 530       | 18/01/2019 | 2           | 355769       | 5782127      | 1     | 99.5                                       | 2 wet  | Pass        |                |
| HDR:W19DS00138 | 531       | 18/01/2019 | 3           | 355758       | 5782101      | 2     | 96.5                                       | 1.5 wet                                      | Pass        |                |
| HDR:W19DS00170 | 635       | 21/01/2019 | 1           | 355910       | 5782049      | 1     | 100  | 0 wet  | Pass        |                |
| HDR:W19DS00170 | 636       | 21/01/2019 | 2           | 355914       | 5782055      | 2     | 99.5                                       | 0 wet  | Pass        |                |
| HDR:W19DS00170 | 637       | 21/01/2019 | 3           | 355930       | 5782077      | 1     | 97.5                                       | 1.5 dry                                      | Pass        |                |
| HDR:W19DS00170 | 638       | 21/01/2019 | 4           | 355933       | 5782075      | 2     | 94.5                                       | 0.5 wet                                      | Fail        | See retest 684 |
| HDR:W19DS00186 | 681       | 22/01/2019 | 1           | 355785       | 5782131      | 4     | 97.5                                       | 0 wet  | Pass        |                |
| HDR:W19DS00186 | 682       | 22/01/2019 | 2           | 355777       | 5782111      | 3     | 101  | 1.5 wet                                      | Pass        |                |
| HDR:W19DS00186 | 683       | 22/01/2019 | 3           | 355916       | 5782041      | 3     | 101.5                                      | 0.5 wet                                      | Pass        |                |
| HDR:W19DS00186 | 684       | 22/01/2019 | 4           | 355934       | 5782077      | 2     | 103.5                                      | 1 dry  | Pass        | Retest of 638  |
| HDR:W19DS00186 | 685       | 22/01/2019 | 5           | 355917       | 5782085      | 3     | 103  | 4 dry  | Fail        | See retest 817 |
| HDR:W19DS00204 | 746       | 23/01/2019 | 1           | 355793       | 5782061      | 1     | 98.5                                       | 0 wet  | Pass        |                |
| HDR:W19DS00204 | 747       | 23/01/2019 | 2           | 355795       | 5782064      | 2     | 99   | 1 wet  | Pass        |                |
| HDR:W19DS00204 | 748       | 23/01/2019 | 3           | 355838       | 5782047      | 2     | 99.5                                       | 0.5 dry                                      | Pass        |                |
| HDR:W19DS00204 | 749       | 23/01/2019 | 4           | 355843       | 5782054      | 1     | 99   | 1 dry  | Pass        |                |
| HDR:W19DS00204 | 750       | 23/01/2019 | 5           | 355888       | 5782034      | 2     | 96   | 0.5 wet                                      | Pass        |                |
| HDR:W19DS00204 | 751       | 23/01/2019 | 6           | 355882       | 5782037      | 1     | 99   | 1 dry  | Pass        |                |
| HDR:W19DS00216 | 817       | 24/01/2019 | 1           | 355915       | 5782087      | 3     | 103.5                                      | 0 dry  | Pass        | Retest of 685  |
| HDR:W19DS00216 | 818       | 24/01/2019 | 2           | 355928       | 5782092      | 5     | 97.5                                       | 0.5 wet                                      | Pass        |                |
| HDR:W19DS00216 | 819       | 24/01/2019 | 3           | 355933       | 5782084      | 4     | 99.5                                       | 0 wet  | Pass        |                |
| HDR:W19DS00216 | 820       | 24/01/2019 | 4           | 355912       | 5782044      | 5     | 99.5                                       | 0.5 wet                                      | Pass        |                |
| HDR:W19DS00216 | 821       | 24/01/2019 | 5           | 355927       | 5782038      | 4     | 98   | 0.5 wet                                      | Pass        |                |



## Appendix C: NATA endorsed laboratory reports

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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:W18DS02858**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
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Approved Signatory: B. Taseski  
 (Senior Technician)  
 Date of Issue: 1/10/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-10966 | S18DS-10967  |  |  |  |
|-----------------------------------|-------------|--------------|--|--|--|
| Field Sample ID                   | 1           | 2            |  |  |  |
| Date Tested                       | 25/09/2018  | 25/09/2018   |  |  |  |
| E                                 | 355725      | 355756       |  |  |  |
| N                                 | 5782138     | 5782138      |  |  |  |
|                                   | Layer 1     | Layer 2      |  |  |  |
| Soil Description                  | Clay        | Clay         |  |  |  |
| Depth of Test (mm)                | 150         | 150          |  |  |  |
| Depth of Layer (mm)               | 200         | 200          |  |  |  |
| AS Sieve Size (mm)                | 19.0        | 19.0         |  |  |  |
| Oversize Wet (%)                  | 0           | 0            |  |  |  |
| Field Wet Density (t/m³)          | 1.96        | 1.97         |  |  |  |
| Peak Converted Wet Density (t/m³) | 1.99        | 1.95         |  |  |  |
| Compactive Effort                 | Standard    | Standard     |  |  |  |
| Moisture Variation (%)            | 2.0 dry     | 0.5 dry      |  |  |  |
| Hilf Density Ratio (%)            | <b>98.5</b> | <b>101.5</b> |  |  |  |

## Comments



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**Report No: HDR:W18DS02879**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: B. Taseski  
 (Senior Technician)  
 Date of Issue: 1/10/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-11042 | S18DS-11043 | S18DS-11044  |  |  |
|-----------------------------------|-------------|-------------|--------------|--|--|
| Field Sample ID                   | 1           | 2           | 3            |  |  |
| Date Tested                       | 26/09/2018  | 26/09/2018  | 26/09/2018   |  |  |
| E                                 | 355728      | 355737      | 355749       |  |  |
| N                                 | 5782132     | 5782139     | 5782140      |  |  |
|                                   | Layer 5     | Layer 4     | Layer 3      |  |  |
| Soil Description                  | Clay        | Clay        | Clay         |  |  |
| Depth of Test (mm)                | 150         | 150         | 150          |  |  |
| Depth of Layer (mm)               | 200         | 200         | 200          |  |  |
| AS Sieve Size (mm)                | 19.0        | 19.0        | 19.0         |  |  |
| Oversize Wet (%)                  | 0           | 0           | 0            |  |  |
| Field Wet Density (t/m³)          | 1.93        | 1.93        | 1.95         |  |  |
| Peak Converted Wet Density (t/m³) | 1.96        | 2.00        | 1.92         |  |  |
| Compactive Effort                 | Standard    | Standard    | Standard     |  |  |
| Moisture Variation (%)            | 2.0 dry     | 0.5 dry     | 0.0          |  |  |
| Hilf Density Ratio (%)            | <b>98.5</b> | <b>96.5</b> | <b>101.5</b> |  |  |

## Comments



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**Report No: HDR:W18DS02910**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 3/10/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-11135 | S18DS-11136 |  |  |  |
|--|-------------|-------------|--|--|--|
| Field Sample ID                                | 1           | 2           |  |  |  |
| Date Tested                                    | 1/10/2018   | 1/10/2018   |  |  |  |
| Location                                       | 355737      | 355744      |  |  |  |
| E  | 5782114     | 5782137     |  |  |  |
| N  | Layer 6     | Layer 7     |  |  |  |
| Soil Description                               | Clay        | Clay        |  |  |  |
| Depth of Test (mm)                             | 150         | 150         |  |  |  |
| Depth of Layer (mm)                            | 200         | 200         |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.99        | 1.96        |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.03        | 1.98        |  |  |  |
| Compactive Effort                              | Standard    | Standard    |  |  |  |
| Moisture Variation (%)                         | 2.0 dry     | 1.0 dry     |  |  |  |
| Hilf Density Ratio (%)                         | <b>98.0</b> | <b>99.0</b> |  |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W18DS02945**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 15  
**Project No.:** 3807351.015  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 8/10/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-11294  | S18DS-11295 | S18DS-11296 |  |  |
|--|--------------|-------------|-------------|--|--|
| Field Sample ID                                | 1            | 2           | 3           |  |  |
| Date Tested                                    | 3/10/2018    | 3/10/2018   | 3/10/2018   |  |  |
| E  | 355734       | 355786      | 355793      |  |  |
| N  | 5782238      | 5782263     | 5782254     |  |  |
|  | Layer 2      | Layer 2     | Layer 1     |  |  |
| Soil Description                               | Clay         | Clay        | Clay        |  |  |
| Depth of Test (mm)                             | 150          | 150         | 150         |  |  |
| Depth of Layer (mm)                            | 200          | 200         | 200         |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.99         | 2.06        | 2.03        |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 1.97         | 2.08        | 2.09        |  |  |
| Compactive Effort                              | Standard     | Standard    | Standard    |  |  |
| Moisture Variation (%)                         | 1.0 dry      | 0.5 dry     | 0.0         |  |  |
| Hilf Density Ratio (%)                         | <b>101.0</b> | <b>99.0</b> | <b>97.0</b> |  |  |

**Comments**



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**Report No: HDR:W18DS03300**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-12732 | S18DS-12733  |  |  |  |
|--|-------------|--------------|--|--|--|
| Field Sample ID                                | 1           | 2            |  |  |  |
| Date Tested                                    | 12/11/2018  | 12/11/2018   |  |  |  |
| Location                                       | 355784      | 355791       |  |  |  |
| E  | 5782187     | 5782201      |  |  |  |
| N  | Layer 2     | Layer 1      |  |  |  |
| Soil Description                               | Clay        | Clay         |  |  |  |
| Depth of Test (mm)                             | 150         | 150          |  |  |  |
| Depth of Layer (mm)                            | 200         | 200          |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.02        | 2.06         |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.01         |  |  |  |
| Compactive Effort                              | Standard    | Standard     |  |  |  |
| Moisture Variation (%)                         | 0.5 wet     | 0.5 wet      |  |  |  |
| Hilf Density Ratio (%)                         | <b>98.0</b> | <b>102.0</b> |  |  |  |

## Comments



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**Report No: HDR:W18DS03319**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 98% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-12816 | S18DS-12817 |  |  |  |
|--|-------------|-------------|--|--|--|
| Field Sample ID                                | 1           | 2           |  |  |  |
| Date Tested                                    | 13/11/2018  | 13/11/2018  |  |  |  |
| Location                                       | 355788      | 355813      |  |  |  |
| E  | 5782219     | 5782218     |  |  |  |
| N  | Layer 3     | Layer 3     |  |  |  |
| Soil Description                               | Clay        | Clay        |  |  |  |
| Depth of Test (mm)                             | 150         | 150         |  |  |  |
| Depth of Layer (mm)                            | 200         | 200         |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.05        | 2.03        |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.06        |  |  |  |
| Compactive Effort                              | Standard    | Standard    |  |  |  |
| Moisture Variation (%)                         | 2.5 wet     | 0.0         |  |  |  |
| Hilf Density Ratio (%)                         | <b>99.0</b> | <b>98.5</b> |  |  |  |

## Comments



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**Report No: HDR:W18DS03338**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-12910 | S18DS-12911  |  |  |  |
|--|-------------|--------------|--|--|--|
| Field Sample ID                                | 1           | 2            |  |  |  |
| Date Tested                                    | 14/11/2018  | 14/11/2018   |  |  |  |
| Location                                       | 355788      | 355801       |  |  |  |
| E  | 5782229     | 5782213      |  |  |  |
| N  | Layer 4     | Layer 4      |  |  |  |
| Soil Description                               | Silty Clay  | Silty Clay   |  |  |  |
| Depth of Test (mm)                             | 150         | 150          |  |  |  |
| Depth of Layer (mm)                            | 200         | 200          |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.06        | 2.03         |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.03         |  |  |  |
| Compactive Effort                              | Standard    | Standard     |  |  |  |
| Moisture Variation (%)                         | 0.5 wet     | 0.5 wet      |  |  |  |
| Hilf Density Ratio (%)                         | <b>99.5</b> | <b>100.0</b> |  |  |  |

## Comments



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**Report No: HDR:W18DS03354**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing



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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-12975  | S18DS-12976 |  |  |  |
|-----------------------------------|--------------|-------------|--|--|--|
| Field Sample ID                   | 1            | 2           |  |  |  |
| Date Tested                       | 15/11/2018   | 15/11/2018  |  |  |  |
| Location                          | 355794       | 355776      |  |  |  |
| E                                 | 5782206      | 5782222     |  |  |  |
| N                                 | Layer 5      | Layer 5     |  |  |  |
| Soil Description                  | Clay         | Clay        |  |  |  |
| Depth of Test (mm)                | 150          | 150         |  |  |  |
| Depth of Layer (mm)               | 200          | 200         |  |  |  |
| AS Sieve Size (mm)                | 19.0         | 19.0        |  |  |  |
| Oversize Wet (%)                  |              | 18          |  |  |  |
| Field Wet Density (t/m³)          | 2.04         | 2.15        |  |  |  |
| Peak Converted Wet Density (t/m³) | 2.02         | 2.17        |  |  |  |
| Compactive Effort                 | Standard     | Standard    |  |  |  |
| Moisture Variation (%)            | 1.0 dry      | 0.5 dry     |  |  |  |
| Hilf Density Ratio (%)            | <b>101.5</b> | <b>99.0</b> |  |  |  |

## Comments





**Dandenong South**  
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**Report No: HDR:W18DS03379**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing



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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

|  |             |  |  |  |  |
|--|-------------|--|--|--|--|
| <b>Sample ID</b>                         | S18DS-13090 |  |  |  |  |
| <b>Field Sample ID</b>                   | 1           |  |  |  |  |
| <b>Date Tested</b>                       | 16/11/2018  |  |  |  |  |
| <b>Location</b>                          | 355793      |  |  |  |  |
| <b>E</b>                                 | 5782236     |  |  |  |  |
| <b>N</b>                                 | Layer 6     |  |  |  |  |
| <b>Soil Description</b>                  | Clay        |  |  |  |  |
| <b>Depth of Test (mm)</b>                | 150         |  |  |  |  |
| <b>Depth of Layer (mm)</b>               | 200         |  |  |  |  |
| <b>Field Wet Density (t/m³)</b>          | 1.96        |  |  |  |  |
| <b>Peak Converted Wet Density (t/m³)</b> | 2.04        |  |  |  |  |
| <b>Compactive Effort</b>                 | Standard    |  |  |  |  |
| <b>Moisture Variation (%)</b>            | 0.5 wet     |  |  |  |  |
| <b>Hilf Density Ratio (%)</b>            | <b>96.0</b> |  |  |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W18DS03411**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 23/11/2018

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 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-13258  | S18DS-13259  |  |  |  |
|-----------------------------------|--------------|--------------|--|--|--|
| Field Sample ID                   | 1            | 2            |  |  |  |
| Date Tested                       | 19/11/2018   | 19/11/2018   |  |  |  |
| Location                          | 355766       | 355762       |  |  |  |
| E                                 | 5782195      | 5782198      |  |  |  |
| N                                 | Layer 7      | Layer 6      |  |  |  |
| Soil Description                  | Clay         | Clay         |  |  |  |
| Depth of Test (mm)                | 150          | 150          |  |  |  |
| Depth of Layer (mm)               | 200          | 200          |  |  |  |
| AS Sieve Size (mm)                | 19.0         |              |  |  |  |
| Oversize Wet (%)                  | 3            |              |  |  |  |
| Field Wet Density (t/m³)          | 2.10         | 2.10         |  |  |  |
| Peak Converted Wet Density (t/m³) | 2.04         | 2.02         |  |  |  |
| Compactive Effort                 | Standard     | Standard     |  |  |  |
| Moisture Variation (%)            | 0.0          | 0.5 wet      |  |  |  |
| Hilf Density Ratio (%)            | <b>103.0</b> | <b>104.0</b> |  |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W18DS03498**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/international standards.

Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 11/12/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-13659  | S18DS-13660 | S18DS-13661 | S18DS-13662 |  |  |
|-----------------------------------|--------------|-------------|-------------|-------------|--|--|
| Field Sample ID                   | 1            | 2           | 3           | 4           |  |  |
| Date Tested                       | 28/11/2018   | 28/11/2018  | 28/11/2018  | 28/11/2018  |  |  |
| E                                 | 355802       | 355784      | 355771      | 355816      |  |  |
| N                                 | 5782162      | 5782156     | 5782169     | 5782197     |  |  |
|                                   | Layer 1      | Layer 2     | LAyer 2     | Layer 1     |  |  |
| Soil Description                  | Clay         | Clay        | Clay        | Clay        |  |  |
| Depth of Test (mm)                | 150          | 150         | 150         | 150         |  |  |
| Depth of Layer (mm)               | 200          | 200         | 200         | 200         |  |  |
| Field Wet Density (t/m³)          | 2.00         | 1.98        | 1.98        | 2.04        |  |  |
| Peak Converted Wet Density (t/m³) | 2.01         | 2.02        | 2.09        | 2.06        |  |  |
| Compactive Effort                 | Standard     | Standard    | Standard    | Standard    |  |  |
| Moisture Variation (%)            | 0.0          | 0.0         | 0.5 wet     | 0.0         |  |  |
| Hilf Density Ratio (%)            | <b>100.0</b> | <b>98.0</b> | <b>94.5</b> | <b>98.5</b> |  |  |

## Comments



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**Report No: HDR:W18DS03514**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 11/12/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

|  |              |  |  |  |  |
|--|--------------|--|--|--|--|
| <b>Sample ID</b>                         | S18DS-13723  |  |  |  |  |
| <b>Field Sample ID</b>                   | 1            |  |  |  |  |
| <b>Date Tested</b>                       | 29/11/2018   |  |  |  |  |
| <b>E</b>                                 | 355787       |  |  |  |  |
| <b>N</b>                                 | 5782223      |  |  |  |  |
|  | Layer 7      |  |  |  |  |
| <b>Soil Description</b>                  | Clay         |  |  |  |  |
| <b>Depth of Test (mm)</b>                | 150          |  |  |  |  |
| <b>Depth of Layer (mm)</b>               | 200          |  |  |  |  |
| <b>AS Sieve Size (mm)</b>                | 19.0         |  |  |  |  |
| <b>Oversize Wet (%)</b>                  | 5            |  |  |  |  |
| <b>Field Wet Density (t/m³)</b>          | 2.14         |  |  |  |  |
| <b>Peak Converted Wet Density (t/m³)</b> | 2.10         |  |  |  |  |
| <b>Compactive Effort</b>                 | Standard     |  |  |  |  |
| <b>Moisture Variation (%)</b>            | 2.0 dry      |  |  |  |  |
| <b>Hilf Density Ratio (%)</b>            | <b>102.0</b> |  |  |  |  |

## Comments



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**Report No: HDR:W18DS03604**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 11/12/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S18DS-14141 | S18DS-14142 |  |  |  |
|--|-------------|-------------|--|--|--|
| Field Sample ID                                | 1           | 2           |  |  |  |
| Date Tested                                    | 7/12/2018   | 7/12/2018   |  |  |  |
| E  | 355788      | 355833      |  |  |  |
| N  | 5782168     | 5782200     |  |  |  |
|  | Layer 3     | Layer 3     |  |  |  |
| Soil Description                               | Clay        | Clay        |  |  |  |
| Depth of Test (mm)                             | 150         | 150         |  |  |  |
| Depth of Layer (mm)                            | 200         | 200         |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.00        | 2.02        |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.09        | 2.09        |  |  |  |
| Compactive Effort                              | Standard    | Standard    |  |  |  |
| Moisture Variation (%)                         | 0.5 wet     | 1.0 wet     |  |  |  |
| Hilf Density Ratio (%)                         | <b>95.5</b> | <b>96.5</b> |  |  |  |

## Comments



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**Report No: HDR:W18DS03644**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 12/12/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S18DS-14265  | S18DS-14266 |  |  |  |
|-----------------------------------|--------------|-------------|--|--|--|
| Field Sample ID                   | 1            | 2           |  |  |  |
| Date Tested                       | 11/12/2018   | 11/12/2018  |  |  |  |
| Location                          | 355781       | 355803      |  |  |  |
| E                                 | 5782169      | 5782184     |  |  |  |
| N                                 | Layer 4      | Layer 4     |  |  |  |
| Soil Description                  | Clay         | Clay        |  |  |  |
| Depth of Test (mm)                | 150          | 150         |  |  |  |
| Depth of Layer (mm)               | 200          | 200         |  |  |  |
| Field Wet Density (t/m³)          | 2.09         | 2.01        |  |  |  |
| Peak Converted Wet Density (t/m³) | 2.09         | 2.09        |  |  |  |
| Compactive Effort                 | Standard     | Standard    |  |  |  |
| Moisture Variation (%)            | 0.0          | 1.0 wet     |  |  |  |
| Hilf Density Ratio (%)            | <b>100.0</b> | <b>96.0</b> |  |  |  |

**Comments**



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**Report No: HDR:W19DS00014**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 11/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

|   |              |  |  |  |  |
|---|--------------|--|--|--|--|
| <b>Sample ID</b>                                    | S19DS-00049  |  |  |  |  |
| <b>Field Sample ID</b>                              | 1            |  |  |  |  |
| <b>Date Tested</b>                                  | 7/01/2019    |  |  |  |  |
| <b>Location</b>                                     | 355841       |  |  |  |  |
| <b>E</b>  | 5782180      |  |  |  |  |
| <b>N</b>  | Layer 1      |  |  |  |  |
| <b>Soil Description</b>                             | Clay         |  |  |  |  |
| <b>Depth of Test (mm)</b>                           | 150          |  |  |  |  |
| <b>Depth of Layer (mm)</b>                          | 200          |  |  |  |  |
| <b>Field Wet Density (t/m<sup>3</sup>)</b>          | 1.99         |  |  |  |  |
| <b>Peak Converted Wet Density (t/m<sup>3</sup>)</b> | 1.99         |  |  |  |  |
| <b>Compactive Effort</b>                            | Standard     |  |  |  |  |
| <b>Moisture Variation (%)</b>                       | 0.5 dry      |  |  |  |  |
| <b>Hilf Density Ratio (%)</b>                       | <b>100.0</b> |  |  |  |  |

## Comments



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**Report No: HDR:W19DS00019**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 11/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00067 | S19DS-00068 | S19DS-00069 | S19DS-00070 | S19DS-00071 |
|--|-------------|-------------|-------------|-------------|-------------|
| Field Sample ID                                | 1           | 2           | 3           | 4           | 5           |
| Date Tested                                    | 8/01/2019   | 8/01/2019   | 8/01/2019   | 8/01/2019   | 8/01/2019   |
| Location                                       | 355851      | 355838      | 355836      | 355821      | 355818      |
| E  | 578215      | 5782149     | 5782150     | 578219      | 5782131     |
| N  | Layer 1     | Layer 3     | Layer 2     | Layer 2     | Layer 3     |
| Soil Description                               | Clay        | Clay        | Clay        | Clay        | Clay        |
| Depth of Test (mm)                             | 150         | 150         | 150         | 150         | 150         |
| Depth of Layer (mm)                            | 200         | 200         | 200         | 200         | 200         |
| Field Wet Density (t/m <sup>3</sup> )          | 2.00        | 1.94        | 2.00        | 1.96        | 1.95        |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.04        | 2.09        | 2.06        | 2.06        |
| Compactive Effort                              | Standard    | Standard    | Standard    | Standard    | Standard    |
| Moisture Variation (%)                         | 2.0 wet     | 0.0         | 2.0 wet     | 0.0         | 0.0         |
| Hilf Density Ratio (%)                         | <b>96.5</b> | <b>95.0</b> | <b>95.5</b> | <b>95.0</b> | <b>95.0</b> |

## Comments





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**Report No: HDR:W19DS00025**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 11/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00083 | S19DS-00084 | S19DS-00085 | S19DS-00086 | S19DS-00087 | S19DS-00088  |
|--|-------------|-------------|-------------|-------------|-------------|--------------|
| Field Sample ID                                | 1           | 2           | 3           | 4           | 5           | 6            |
| Date Tested                                    | 9/01/2019   | 9/01/2019   | 9/01/2019   | 9/01/2019   | 9/01/2019   | 9/01/2019    |
| Location                                       | 355845      | 355822      | 355851      | 355846      | 355824      | 355848       |
| E  | 5782195     | 5782163     | 5782192     | 5782132     | 5782165     | 5782135      |
| N  | Layer 5     | Layer 5     | Layer 4     | Layer 2     | Layer 4     | Layer 1      |
| Soil Description                               | Clay        | Clay        | Clay        | Clay        | Clay        | Clay         |
| Depth of Test (mm)                             | 150         | 150         | 150         | 150         | 150         | 150          |
| Depth of Layer (mm)                            | 200         | 200         | 200         | 200         | 200         | 200          |
| Field Wet Density (t/m <sup>3</sup> )          | 1.98        | 1.97        | 2.02        | 1.99        | 1.99        | 2.08         |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.06        | 2.10        | 2.10        | 2.00        | 2.07        | 2.08         |
| Compactive Effort                              | Standard    | Standard    | Standard    | Standard    | Standard    | Standard     |
| Moisture Variation (%)                         | 1.5 wet     | 3.0 wet     | 1.0 wet     | 2.0 wet     | 2.0 wet     | 2.0 wet      |
| Hilf Density Ratio (%)                         | <b>96.0</b> | <b>93.5</b> | <b>96.0</b> | <b>99.0</b> | <b>96.5</b> | <b>100.0</b> |

## Comments



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**Report No: HDR:W19DS00025**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 11/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S19DS-00089 | S19DS-00090 |  |  |  |
|-----------------------------------|-------------|-------------|--|--|--|
| Field Sample ID                   | 7           | 8           |  |  |  |
| Date Tested                       | 9/01/2019   | 9/01/2019   |  |  |  |
| Location                          | 355854      | 355850      |  |  |  |
| E                                 | 5782105     | 5782107     |  |  |  |
| N                                 | Layer 1     | Layer 2     |  |  |  |
| Soil Description                  | Clay        | Clay        |  |  |  |
| Depth of Test (mm)                | 150         | 150         |  |  |  |
| Depth of Layer (mm)               | 200         | 200         |  |  |  |
| Field Wet Density (t/m³)          | 2.04        | 1.98        |  |  |  |
| Peak Converted Wet Density (t/m³) | 2.14        | 2.04        |  |  |  |
| Compactive Effort                 | Standard    | Standard    |  |  |  |
| Moisture Variation (%)            | 0.0         | 2.0 wet     |  |  |  |
| Hilf Density Ratio (%)            | <b>95.5</b> | <b>97.0</b> |  |  |  |

## Comments



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**Report No: HDR:W19DS00034**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00131  | S19DS-00132 | S19DS-00133 | S19DS-00134 | S19DS-00135 | S19DS-00136 |
|--|--------------|-------------|-------------|-------------|-------------|-------------|
| Field Sample ID                                | 1            | 2           | 3           | 4           | 5           | 6           |
| Date Tested                                    | 10/01/2019   | 10/01/2019  | 10/01/2019  | 10/01/2019  | 10/01/2019  | 10/01/2019  |
| Location                                       | 355873       | 355849      | 355871      | 355852      | 355855      | 355838      |
| E  | 5782144      | 5782118     | 5782145     | 5782189     | 5782187     | 5782158     |
| N  | Layer 3      | Layer 3     | Layer 3     | Layer 6     | Layer 7     | Layer 7     |
| Soil Description                               | Clay         | Clay        | Clay        | Clay        | Clay        | Clay        |
| Depth of Test (mm)                             | 150          | 150         | 150         | 150         | 150         | 150         |
| Depth of Layer (mm)                            | 200          | 200         | 200         | 200         | 200         | 200         |
| AS Sieve Size (mm)                             | 19.0         |             |             |             |             |             |
| Oversize Wet (%)                               | 8            |             |             |             |             |             |
| Field Wet Density (t/m <sup>3</sup> )          | 2.13         | 1.98        | 1.96        | 1.95        | 1.94        | 1.95        |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07         | 2.02        | 2.04        | 2.03        | 2.01        | 2.03        |
| Compactive Effort                              | Standard     | Standard    | Standard    | Standard    | Standard    | Standard    |
| Moisture Variation (%)                         | 1.5 dry      | 0.0         | 2.5 wet     | 0.5 dry     | 1.0 wet     | 0.5 wet     |
| Hilf Density Ratio (%)                         | <b>102.5</b> | <b>98.0</b> | <b>96.0</b> | <b>96.0</b> | <b>96.5</b> | <b>96.0</b> |

## Comments



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**Report No: HDR:W19DS00034**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/international standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
 12712  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00137 | S19DS-00138  | S19DS-00139 | S19DS-00140 |  |  |
|--|-------------|--------------|-------------|-------------|--|--|
| Field Sample ID                                | 7           | 8            | 9           | 10          |  |  |
| Date Tested                                    | 10/01/2019  | 10/01/2019   | 10/01/2019  | 10/01/2019  |  |  |
| Location                                       | 355841      | 355823       | 355870      | 355859      |  |  |
| E  | 5782160     | 5782165      | 5782136     | 578117      |  |  |
| N  | Layer 6     | Layer 5      | Layer 4     | Layer 4     |  |  |
|  |             | re-test from |             |             |  |  |
|  |             | 9/01/19      |             |             |  |  |
| Soil Description                               | Clay        | Clay         | Clay        | Clay        |  |  |
| Depth of Test (mm)                             | 150         | 150          | 150         | 150         |  |  |
| Depth of Layer (mm)                            | 200         | 200          | 200         | 200         |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.95        | 1.99         | 2.05        | 1.99        |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.05        | 2.04         | 2.07        | 2.03        |  |  |
| Compactive Effort                              | Standard    | Standard     | Standard    | Standard    |  |  |
| Moisture Variation (%)                         | 0.0         | 0.5 wet      | 0.5 wet     | 1.0 wet     |  |  |
| Hilf Density Ratio (%)                         | <b>95.5</b> | <b>97.5</b>  | <b>99.0</b> | <b>97.5</b> |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS00044**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                | S19DS-00165 | S19DS-00166 | S19DS-00167 | S19DS-00168  | S19DS-00169  |
|--|-------------|-------------|-------------|--------------|--------------|
| <b>Field Sample ID</b>                   | 1           | 2           | 3           | 4            | 5            |
| <b>Date Tested</b>                       | 11/01/2019  | 11/01/2019  | 11/01/2019  | 11/01/2019   | 11/01/2019   |
| <b>Location</b>                          | 355878      | 355897      | 355899      | 355880       | 355880       |
| <b>E</b>                                 | 5782144     | 5782074     | 5782076     | 5782103      | 5782101      |
| <b>N</b>                                 | Layer 5     | Layer 1     | Layer 2     | Layer 1      | Layer 2      |
| <b>Soil Description</b>                  | Clay        | Clay        | Clay        | Clay         | Clay         |
| <b>Depth of Test (mm)</b>                | 150         | 150         | 150         | 150          | 150          |
| <b>Depth of Layer (mm)</b>               | 200         | 200         | 200         | 200          | 200          |
| <b>AS Sieve Size (mm)</b>                |             |             |             | 19.0         |              |
| <b>Oversize Wet (%)</b>                  |             |             |             | 4            |              |
| <b>Field Wet Density (t/m³)</b>          | 2.00        | 2.01        | 1.97        | 2.05         | 2.05         |
| <b>Peak Converted Wet Density (t/m³)</b> | 2.02        | 2.01        | 2.02        | 2.05         | 2.01         |
| <b>Compactive Effort</b>                 | Standard    | Standard    | Standard    | Standard     | Standard     |
| <b>Moisture Variation (%)</b>            | 0.0         | 0.5 wet     | 0.0         | 1.0 wet      | 1.0 wet      |
| <b>Hilf Density Ratio (%)</b>            | <b>99.0</b> | <b>99.5</b> | <b>97.5</b> | <b>100.0</b> | <b>102.0</b> |

## Comments



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**Report No: HDR:W19DS00052**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00203 | S19DS-00204 | S19DS-00205 | S19DS-00206 |  |  |
|--|-------------|-------------|-------------|-------------|--|--|
| Field Sample ID                                | 1           | 2           | 3           | 4           |  |  |
| Date Tested                                    | 14/01/2019  | 14/01/2019  | 14/01/2019  | 14/01/2019  |  |  |
| Location                                       | 355873      | 355893      | 355912      | 355904      |  |  |
| E  | 5782100     | 5782087     | 5782111     | 5782128     |  |  |
| N  | Layer 4     | Layer 3     | Layer 3     | Layer 4     |  |  |
| Soil Description                               | Clay        | Clay        | Clay        | Clay        |  |  |
| Depth of Test (mm)                             | 150         | 150         | 150         | 150         |  |  |
| Depth of Layer (mm)                            | 200         | 200         | 200         | 200         |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.94        | 1.98        | 2.03        | 1.97        |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.03        | 2.04        | 2.07        | 2.04        |  |  |
| Compactive Effort                              | Standard    | Standard    | Standard    | Standard    |  |  |
| Moisture Variation (%)                         | 0.5 wet     | 2.0 dry     | 2.0 wet     | 2.0 wet     |  |  |
| Hilf Density Ratio (%)                         | <b>95.5</b> | <b>96.5</b> | <b>98.0</b> | <b>96.5</b> |  |  |

## Comments



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**Report No: HDR:W19DS00068**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00263 | S19DS-00264 | S19DS-00265 | S19DS-00266 | S19DS-00267 | S19DS-00268 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Field Sample ID                                | 1           | 2           | 3           | 4           | 5           | 6           |
| Date Tested                                    | 15/01/2019  | 15/01/2019  | 15/01/2019  | 15/01/2019  | 15/01/2019  | 15/01/2019  |
| Location                                       | 355808      | 355806      | 355849      | 355852      | 355878      | 355893      |
| E  | 5782084     | 5782082     | 5782080     | 5782078     | 5782089     | 5782112     |
| N  | Layer 2     | Layer 1     | Layer 1     | Layer 2     | Layer 5     | Layer 5     |
| Soil Description                               | Clay        | Clay        | Clay        | Clay        | Clay        | Clay        |
| Depth of Test (mm)                             | 150         | 150         | 150         | 150         | 150         | 150         |
| Depth of Layer (mm)                            | 200         | 200         | 200         | 200         | 200         | 200         |
| Field Wet Density (t/m <sup>3</sup> )          | 1.98        | 2.00        | 2.02        | 2.00        | 2.00        | 2.05        |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.08        | 2.02        | 2.04        | 2.07        | 2.06        |
| Compactive Effort                              | Standard    | Standard    | Standard    | Standard    | Standard    | Standard    |
| Moisture Variation (%)                         | 0.0         | 0.5 wet     | 0.0         | 2.5 wet     | 0.5 dry     | 0.5 dry     |
| Hilf Density Ratio (%)                         | <b>95.5</b> | <b>96.0</b> | <b>99.5</b> | <b>98.0</b> | <b>96.5</b> | <b>99.0</b> |

**Comments**



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**Report No: HDR:W19DS00086**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00359  | S19DS-00360 | S19DS-00361 | S19DS-00362 | S19DS-00363 | S19DS-00364 |
|--|--------------|-------------|-------------|-------------|-------------|-------------|
| Field Sample ID                                | 1            | 2           | 3           | 4           | 5           | 6           |
| Date Tested                                    | 16/01/2019   | 16/01/2019  | 16/01/2019  | 16/01/2019  | 16/01/2019  | 16/01/2019  |
| Location                                       | 355889       | 355889      | 355852      | 355823      | 355788      | 355785      |
| E  | 5782125      | 5782081     | 5782074     | 5782098     | 5782102     | 5782124     |
| N  | Layer 6      | Layer 6     | Layer 3     | Layer 3     | Layer 2     | Layer 1     |
| Soil Description                               | Clay         | Clay        | Clay        | Clay        | Clay        | Clay        |
| Depth of Test (mm)                             | 150          | 150         | 150         | 150         | 150         | 150         |
| Depth of Layer (mm)                            | 200          | 200         | 200         | 200         | 200         | 200         |
| Field Wet Density (t/m <sup>3</sup> )          | 1.99         | 1.95        | 2.01        | 2.00        | 1.96        | 1.99        |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 1.97         | 2.02        | 2.06        | 2.09        | 1.99        | 2.05        |
| Compactive Effort                              | Standard     | Standard    | Standard    | Standard    | Standard    | Standard    |
| Moisture Variation (%)                         | 2.5 wet      | 3.0 wet     | 3.0 wet     | 1.5 wet     | 0.5 wet     | 2.5 wet     |
| Hilf Density Ratio (%)                         | <b>101.0</b> | <b>96.5</b> | <b>97.5</b> | <b>95.5</b> | <b>98.0</b> | <b>97.0</b> |

## Comments





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**Report No: HDR:W19DS00103**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00422  | S19DS-00423 | S19DS-00424 | S19DS-00425  | S19DS-00426  |
|--|--------------|-------------|-------------|--------------|--------------|
| Field Sample ID                                | 1            | 2           | 3           | 4            | 5            |
| Date Tested                                    | 17/01/2019   | 17/01/2019  | 17/01/2019  | 17/01/2019   | 17/01/2019   |
| Location                                       | 355871       | 35587       | 355893      | 355909       | 355864       |
| E  | 5782073      | 5782098     | 5782113     | 5782042      | 5782099      |
| N  | Layer 4      | Layer 3     | Layer 7     | Layer 7      | Layer 7      |
| Soil Description                               | Clay         | Clay        | Clay        | Clay         | Clay         |
| Depth of Test (mm)                             | 150          | 150         | 150         | 150          | 150          |
| Depth of Layer (mm)                            | 200          | 200         | 200         | 200          | 200          |
| Field Wet Density (t/m <sup>3</sup> )          | 2.00         | 1.97        | 2.01        | 2.05         | 2.07         |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.00         | 2.02        | 2.08        | 2.01         | 2.06         |
| Compactive Effort                              | Standard     | Standard    | Standard    | Standard     | Standard     |
| Moisture Variation (%)                         | 0.0          | 3.0 wet     | 0.5 wet     | 0.0          | 0.0          |
| Hilf Density Ratio (%)                         | <b>100.0</b> | <b>97.5</b> | <b>96.5</b> | <b>102.0</b> | <b>101.0</b> |

## Comments



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**Report No: HDR:W19DS00138**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S19DS-00529 | S19DS-00530 | S19DS-00531 |  |  |
|-----------------------------------|-------------|-------------|-------------|--|--|
| Field Sample ID                   | 1           | 2           | 3           |  |  |
| Date Tested                       | 18/01/2019  | 18/01/2019  | 18/01/2019  |  |  |
| Location                          | 355797      | 355769      | 355758      |  |  |
| E                                 | 5782122     | 5782127     | 5782101     |  |  |
| N                                 | Layer 4     | Layer 1     | Layer 2     |  |  |
| Soil Description                  | Clay        | Clay        | Clay        |  |  |
| Depth of Test (mm)                | 150         | 150         | 150         |  |  |
| Depth of Layer (mm)               | 200         | 200         | 200         |  |  |
| Field Wet Density (t/m³)          | 1.99        | 2.07        | 1.97        |  |  |
| Peak Converted Wet Density (t/m³) | 2.06        | 2.09        | 2.04        |  |  |
| Compactive Effort                 | Standard    | Standard    | Standard    |  |  |
| Moisture Variation (%)            | 2.5 wet     | 2.0 wet     | 1.5 wet     |  |  |
| Hilf Density Ratio (%)            | <b>96.5</b> | <b>99.5</b> | <b>96.5</b> |  |  |

## Comments



**Dandenong South**  
**ACN 143 009 330**  
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**Report No: HDR:W19DS00170**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00635  | S19DS-00636 | S19DS-00637 | S19DS-00638 |  |  |
|--|--------------|-------------|-------------|-------------|--|--|
| Field Sample ID                                | 1            | 2           | 3           | 4           |  |  |
| Date Tested                                    | 21/01/2019   | 21/01/2019  | 21/01/2019  | 21/01/2019  |  |  |
| Location                                       | 355910       | 355914      | 355930      | 355933      |  |  |
| E  | 5782049      | 5782055     | 5782077     | 5782075     |  |  |
| N  | Layer 1      | Layer 2     | Layer 1     | Layer 2     |  |  |
| Soil Description                               | Clay         | Clay        | Clay        | Clay        |  |  |
| Depth of Test (mm)                             | 150          | 150         | 150         | 150         |  |  |
| Depth of Layer (mm)                            | 200          | 200         | 200         | 200         |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.95         | 1.95        | 1.91        | 1.94        |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 1.96         | 1.96        | 1.95        | 2.05        |  |  |
| Compactive Effort                              | Standard     | Standard    | Standard    | Standard    |  |  |
| Moisture Variation (%)                         | 0.0          | 0.0         | 1.5 dry     | 0.5 wet     |  |  |
| Hilf Density Ratio (%)                         | <b>100.0</b> | <b>99.5</b> | <b>97.5</b> | <b>94.5</b> |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS00186**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00681 | S19DS-00682  | S19DS-00683  | S19DS-00684  | S19DS-00685  |  |
|--|-------------|--------------|--------------|--------------|--------------|--|
| Field Sample ID                                | 1           | 2            | 3            | 4            | 5            |  |
| Date Tested                                    | 22/01/2019  | 22/01/2019   | 22/01/2019   | 22/01/2019   | 22/01/2019   |  |
| Location                                       | 355785      | 355777       | 355916       | 355934       | 355917       |  |
| E  | 5782131     | 5782111      | 5782041      | 5782077      | 5782085      |  |
| N  | Layer 4     | Layer 3      | Layer 3      | Layer 2      | Layer 3      |  |
|  |             |              |              | re-test from |              |  |
|  |             |              |              | 21/01/19     |              |  |
| Soil Description                               | Clay        | Clay         | Clay         | Clay         | Clay         |  |
| Depth of Test (mm)                             | 150         | 150          | 150          | 150          | 150          |  |
| Depth of Layer (mm)                            | 200         | 200          | 200          | 200          | 200          |  |
| Field Wet Density (t/m <sup>3</sup> )          | 1.99        | 2.04         | 1.98         | 1.95         | 1.95         |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.04        | 2.02         | 1.95         | 1.88         | 1.89         |  |
| Compactive Effort                              | Standard    | Standard     | Standard     | Standard     | Standard     |  |
| Moisture Variation (%)                         | 0.0         | 1.5 wet      | 0.5 wet      | 1.0 dry      | 4.0 dry      |  |
| Hilf Density Ratio (%)                         | <b>97.5</b> | <b>101.0</b> | <b>101.5</b> | <b>103.5</b> | <b>103.0</b> |  |

## Comments



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**Report No: HDR:W19DS00204**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/international standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID   | S19DS-00746 | S19DS-00747 | S19DS-00748 | S19DS-00749 | S19DS-00750 | S19DS-00751 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Field Sample ID</b>                              | 1           | 2           | 3           | 4           | 5           | 6           |
| <b>Date Tested</b>                                  | 23/01/2019  | 23/01/2019  | 23/01/2019  | 23/01/2019  | 23/01/2019  | 23/01/2019  |
| <b>Location</b>                                     | 355793      | 355795      | 355838      | 355843      | 355888      | 355882      |
| <b>E</b>  | 5782061     | 5782064     | 5782047     | 5782054     | 5782034     | 5782037     |
| <b>N</b>  | Layer 1     | Layer 2     | Layer 2     | Layer 1     | Layer 2     | Layer 1     |
| <b>Soil Description</b>                             | Clay        | Clay        | Clay        | Clay        | Clay        | Clay        |
| <b>Depth of Test (mm)</b>                           | 150         | 150         | 150         | 150         | 150         | 150         |
| <b>Depth of Layer (mm)</b>                          | 200         | 200         | 200         | 200         | 200         | 200         |
| <b>Field Wet Density (t/m<sup>3</sup>)</b>          | 2.03        | 2.03        | 2.00        | 2.02        | 1.97        | 2.02        |
| <b>Peak Converted Wet Density (t/m<sup>3</sup>)</b> | 2.06        | 2.04        | 2.01        | 2.04        | 2.05        | 2.04        |
| <b>Compactive Effort</b>                            | Standard    | Standard    | Standard    | Standard    | Standard    | Standard    |
| <b>Moisture Variation (%)</b>                       | 0.0         | 1.0 wet     | 0.5 dry     | 1.0 dry     | 0.5 wet     | 1.0 dry     |
| <b>Hilf Density Ratio (%)</b>                       | <b>98.5</b> | <b>99.0</b> | <b>99.5</b> | <b>99.0</b> | <b>96.0</b> | <b>99.0</b> |

## Comments



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**Report No: HDR:W19DS00216**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 25/01/2019  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-00817  | S19DS-00818 | S19DS-00819 | S19DS-00820 | S19DS-00821 |
|--|--------------|-------------|-------------|-------------|-------------|
| Field Sample ID                                | 1            | 2           | 3           | 4           | 5           |
| Date Tested                                    | 24/01/2019   | 24/01/2019  | 24/01/2019  | 24/01/2019  | 24/01/2019  |
| Location                                       | 355915       | 355928      | 355933      | 355912      | 355927      |
| E  | 5782087      | 5782092     | 5782084     | 5782044     | 5782038     |
| N  | Layer 3      | Layer 5     | Layer 4     | Layer 5     | Layer 4     |
|  | re-test from |             |             |             |             |
|  | 22/01/19     |             |             |             |             |
| Soil Description                               | Clay         | Clay        | Clay        | Clay        | Clay        |
| Depth of Test (mm)                             | 150          | 150         | 150         | 150         | 150         |
| Depth of Layer (mm)                            | 200          | 200         | 200         | 200         | 200         |
| Field Wet Density (t/m <sup>3</sup> )          | 2.07         | 2.00        | 2.05        | 2.06        | 2.03        |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.01         | 2.05        | 2.06        | 2.07        | 2.07        |
| Compactive Effort                              | Standard     | Standard    | Standard    | Standard    | Standard    |
| Moisture Variation (%)                         | 0.0          | 0.5 wet     | 0.0         | 0.5 wet     | 0.5 wet     |
| Hilf Density Ratio (%)                         | <b>103.5</b> | <b>97.5</b> | <b>99.5</b> | <b>99.5</b> | <b>98.0</b> |

## Comments



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**Report No: HDR:W19DS00267**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 12/02/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

|  |             |  |  |  |  |
|--|-------------|--|--|--|--|
| <b>Sample ID</b>                         | S19DS-01026 |  |  |  |  |
| <b>Field Sample ID</b>                   | 1           |  |  |  |  |
| <b>Date Tested</b>                       | 31/01/2019  |  |  |  |  |
| <b>Location</b>                          | 355876      |  |  |  |  |
| <b>E</b>                                 | 5782050     |  |  |  |  |
| <b>N</b>                                 | Layer 5     |  |  |  |  |
| <b>Soil Description</b>                  | Clay        |  |  |  |  |
| <b>Depth of Test (mm)</b>                | 150         |  |  |  |  |
| <b>Depth of Layer (mm)</b>               | 200         |  |  |  |  |
| <b>Field Wet Density (t/m³)</b>          | 2.06        |  |  |  |  |
| <b>Peak Converted Wet Density (t/m³)</b> | 2.09        |  |  |  |  |
| <b>Compactive Effort</b>                 | Standard    |  |  |  |  |
| <b>Moisture Variation (%)</b>            | 0.0         |  |  |  |  |
| <b>Hilf Density Ratio (%)</b>            | <b>98.0</b> |  |  |  |  |

**Comments**



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**Report No: HDR:W19DS00301**  
**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 12/02/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-01172 | S19DS-01173  | S19DS-01174 | S19DS-01175 |  |  |
|--|-------------|--------------|-------------|-------------|--|--|
| Field Sample ID                                | 1           | 2            | 3           | 4           |  |  |
| Date Tested                                    | 4/02/2019   | 4/02/2019    | 4/02/2019   | 4/02/2019   |  |  |
| Location                                       | 355949      | 355954       | 355927      | 355938      |  |  |
| E  | 5782057     | 5782048      | 5782030     | 5782034     |  |  |
| N  | Layer 1     | Layer 2      | Layer 2     | Layer 1     |  |  |
| Soil Description                               | Clay        | Clay         | Clay        | Clay        |  |  |
| Depth of Test (mm)                             | 150         | 150          | 150         | 150         |  |  |
| Depth of Layer (mm)                            | 200         | 200          | 200         | 200         |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.04        | 2.06         | 2.01        | 2.03        |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.07        | 2.07         | 2.06        | 2.08        |  |  |
| Compactive Effort                              | Standard    | Standard     | Standard    | Standard    |  |  |
| Moisture Variation (%)                         | 0.0         | 0.0          | 2.5 wet     | 2.5 wet     |  |  |
| Hilf Density Ratio (%)                         | <b>98.5</b> | <b>100.0</b> | <b>97.5</b> | <b>97.5</b> |  |  |

## Comments





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**Report No: HDR:W19DS00322**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 12/02/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:**  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                                      | S19DS-01230 | S19DS-01231  |  |  |  |
|--|-------------|--------------|--|--|--|
| Field Sample ID                                | 1           | 2            |  |  |  |
| Date Tested                                    | 6/02/2019   | 6/02/2019    |  |  |  |
| Location                                       | 355929      | 355949       |  |  |  |
| E  | 5782063     | 5782038      |  |  |  |
| N  | Layer 6     | Layer 3      |  |  |  |
| Soil Description                               | Clay        | Clay         |  |  |  |
| Depth of Test (mm)                             | 150         | 150          |  |  |  |
| Depth of Layer (mm)                            | 200         | 200          |  |  |  |
| Field Wet Density (t/m <sup>3</sup> )          | 2.12        | 1.93         |  |  |  |
| Peak Converted Wet Density (t/m <sup>3</sup> ) | 2.15        | 1.93         |  |  |  |
| Compactive Effort                              | Standard    | Standard     |  |  |  |
| Moisture Variation (%)                         | 0.0         | 1.0 dry      |  |  |  |
| Hilf Density Ratio (%)                         | <b>99.0</b> | <b>100.0</b> |  |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS00348**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 12/02/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S19DS-01319 | S19DS-01320 |  |  |  |
|-----------------------------------|-------------|-------------|--|--|--|
| Field Sample ID                   | 1           | 2           |  |  |  |
| Date Tested                       | 8/02/2019   | 8/02/2019   |  |  |  |
| Location                          | 355925      | 355947      |  |  |  |
| E                                 | 5782069     | 5782041     |  |  |  |
| N                                 | Layer 4     | Layer 4     |  |  |  |
| Soil Description                  | Clay        | Clay        |  |  |  |
| Depth of Test (mm)                | 150         | 150         |  |  |  |
| Depth of Layer (mm)               | 200         | 200         |  |  |  |
| AS Sieve Size (mm)                | 19.0        |             |  |  |  |
| Oversize Wet (%)                  | 0           | 0           |  |  |  |
| Field Wet Density (t/m³)          | 1.98        | 1.95        |  |  |  |
| Peak Converted Wet Density (t/m³) | 2.02        | 1.96        |  |  |  |
| Compactive Effort                 | Standard    | Standard    |  |  |  |
| Moisture Variation (%)            | 0.0         | 0.0         |  |  |  |
| Hilf Density Ratio (%)            | <b>98.0</b> | <b>99.5</b> |  |  |  |

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS00374**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 16  
**Project No.:** 3807351.016  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/international standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 18/02/2019

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC  
**Field Test procedures:** AS 1289.5.8.1  
**Laboratory Test procedures:** AS 1289.5.7.1  
**Sampling Method:** AS1289.1.2.1 Clause 6.4 (b)  
**Source:** Onsite  
**Material:** General Fill

| Sample ID                         | S19DS-01403  | S19DS-01404  |  |  |  |
|-----------------------------------|--------------|--------------|--|--|--|
| Field Sample ID                   | 1            | 2            |  |  |  |
| Date Tested                       | 13/02/2019   | 13/02/2019   |  |  |  |
| Location                          | 355961       | 355941       |  |  |  |
| E                                 | 5782035      | 5782065      |  |  |  |
| N                                 | Layer 6      | Layer 5      |  |  |  |
| Soil Description                  | Clay         | Clay         |  |  |  |
| Depth of Test (mm)                | 150          | 150          |  |  |  |
| Depth of Layer (mm)               | 200          | 200          |  |  |  |
| AS Sieve Size (mm)                | 19.0         | 19.0         |  |  |  |
| Oversize Wet (%)                  | 0            | 0            |  |  |  |
| Field Wet Density (t/m³)          | 1.95         | 2.08         |  |  |  |
| Peak Converted Wet Density (t/m³) | 1.92         | 2.02         |  |  |  |
| Compactive Effort                 | Standard     | Standard     |  |  |  |
| Moisture Variation (%)            | 1.5 dry      | 0.0          |  |  |  |
| Hilf Density Ratio (%)            | <b>101.5</b> | <b>103.0</b> |  |  |  |

## Comments

## Appendix D: Controlled fill certificates

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1601 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1602 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1603 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1604 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1605  
Meridian Estate Stage 16

Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164

DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1606  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1607 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1608 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1609 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1610 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1611 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1612 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1613 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1614 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1615  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1616  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1617  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1618  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164

DATE : August 2019

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1619 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1620  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1621 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1622 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1623 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1624 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1625  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164

DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1626  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1627  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1628  
Meridian Estate Stage 16

Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164

DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1629 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1630 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1631 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1632 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1633 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1634 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1635 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1636 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1637 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1638 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

---

### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1639 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1640 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1641 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1642 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1643  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1644  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1645  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1646  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164

DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1647 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1648  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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 it is able to 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1649 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 25th September 2018 to the 13th February 2019. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1650 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1651 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1652 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1653 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1654 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 it is able to 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1655  
Meridian Estate Stage 16  
Chadwick Geotechnics REF: 3807351.016.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2019

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### 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.

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1656 Chadwick Geotechnics REF: 3807351.016.v1  
Meridian Estate Stage 16

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2019  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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.

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### LIMITATIONS

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Geotechnical Engineer

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