



# REPORT

## Level One Inspection and Testing Services

Meridian Estate Stage 9C, Lots 9082 to 9116  
and Lot GG

Prepared for:

Grosvenor Lodge Pty Ltd

August 2020

Our Ref: 3807351.09C.v1

25 Metcalf Street, Dandenong South, Vic 3175, Australia  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)

## Document Control

Title: Level One Inspection and Testing Services					
Date	Version	Description	Prepared by:	Reviewed by:	Authorised by:
20-08-20	1	Level One report, 3807351.09C	RHB	RHB	TJC

### Distribution:

Grosvenor Lodge Pty Ltd

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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 Geotechnical Inspection and Testing services for the earthworks within Stage 9C of the Meridian Estate in Clyde North.

## 2 Project details

The project included the preparation and filling of lot's 9082 to 9116 and Lot GG. 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.

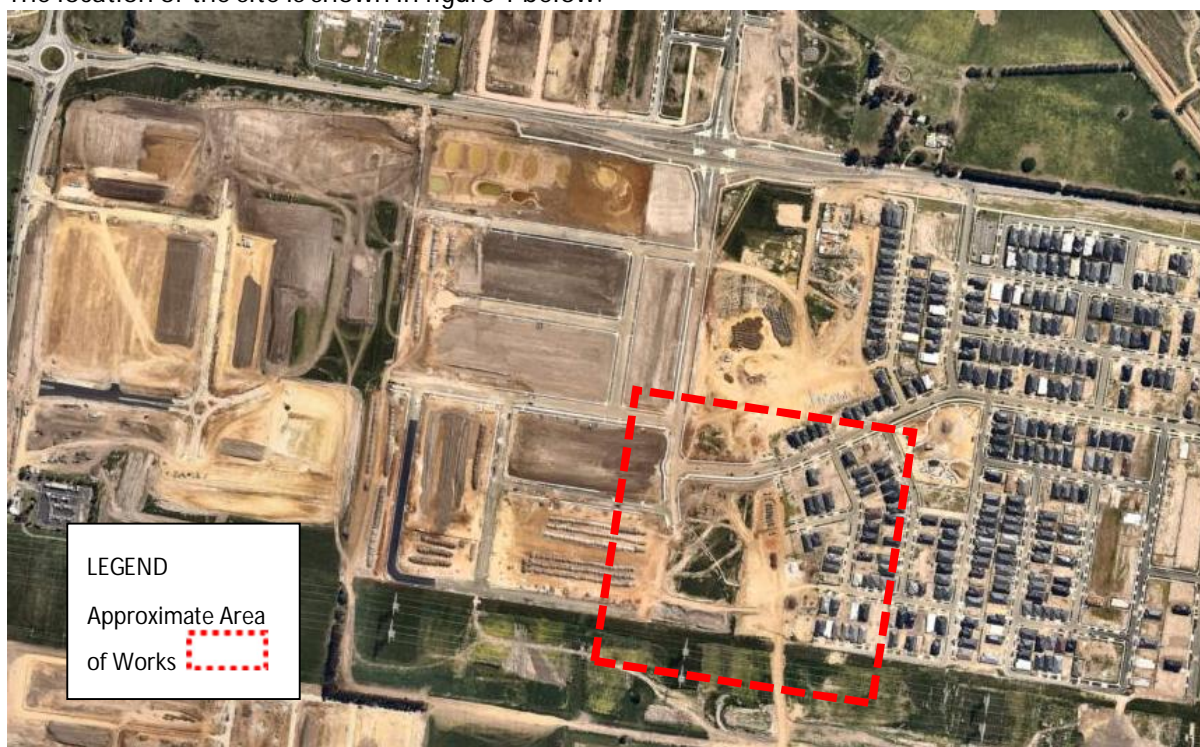


Figure 1: Approximate site location (*Image sourced from Nearmaps*)

## 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

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

- 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 laboratories 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 Geotechnical Inspection and Testing of the filling operations commenced on 17 May 2016 and was completed on 23 October 2019. During this period Chadwick Geotechnics observed the earthworks at the times (as the filling works were intermittent) the earthworks contractor was placing fill. This included the supply of material, conditioning of material (moisture conditioning), 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 that of additional lifts, was 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 portable density and moisture 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.

A total of twenty-two (22) tests were performed during the filling process.

The results show that all 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 are provided in Appendix C.

## 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 prevailing conditions between 17 May 2016 to 23 October 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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[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)

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## Appendix A: Density Test Location Plan

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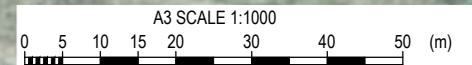


**LEGEND**

8059

HILF DENSITY TEST LOCATION

NOTES:  
 1. AERIAL SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD. IMAGERY DATE: 28/04/2020.



ORIGINAL IN COLOUR

PROJECT No. 3807351		
DESIGNED	DAH	Aug.20
DRAWN	KMJA	Aug.20
CHECKED		
APPROVED _____ DATE _____		

CLIENT	<b>BROWN PROPERTY GROUP</b>
PROJECT	<b>MERIDIAN ESTATE STAGE 9C</b>
TITLE	LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST LOCATION PLAN
SCALE (A3)	1:1000
FIG No.	FIGURE 01
REV	1



## Appendix B: Table of field density results

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## Hiif Summary Table

3807351.009C Meridian Estate Stage 9C



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC	Pass / Fail	Remarks
380735 - 26	1606450	17/05/2016	80	354849	5782305	Layer 1	100	0.5 wet	Pass	
380735 - 26	1606451	17/05/2016	81	354881	5782304	Layer 1	106	0.5 wet	Pass	
380735 - 26	1606452	17/05/2016	82	354831	5782280	Layer 1	100	0.5 wet	Pass	
380735 - 26	1606453	17/05/2016	83	354902	5782228	Layer 1	103.5	2.0 dry	Pass	
380735 - 26	1606454	17/05/2016	84	354894	5782276	Layer 1	100	0.5 wet	Pass	
380735 - 26	1606455	17/05/2016	85	354855	5782268	Layer 1	100.5	0.5 wet	Pass	
380735 - 29	1606695	21/05/2016	98	354831	5782207	Layer 2	99	3.0 wet	Pass	
380735 - 29	1606696	21/05/2016	99	354835	5782243	Layer 2	103	0.5 wet	Pass	
380735 - 29	1606697	21/05/2016	100	354860	5782247	Layer 2	102.5	1.0 dry	Pass	
380735 - 29	1606698	21/05/2016	101	354816	5782284	Layer 2	98.5	2.0 dry	Pass	
380735 - 29	1606699	21/05/2016	102	355055	5782322	Layer 2	101	2.0 dry	Pass	
380735 - 34	1607236	3/06/2016	122	354882	5782202	Layer 1	102.5	0.5 wet	Pass	
380735 - 34	1607237	3/06/2016	123	354880	5782219	Layer 1	103	1.0 wet	Pass	
380735 - 34	1607238	3/06/2016	124	354887	5782234	Layer 1	99.5	0.5 wet	Pass	
380735 - 34	1607239	3/06/2016	125	354861	5782208	Layer 1	99	1.0 wet	Pass	
380735 - 34	1607240	3/06/2016	126	354864	5782228	Layer 1	100.5	0.5 wet	Pass	
380735 - 34	1607241	3/06/2016	127	354860	5782258	Layer 1	103	0.5 wet	Pass	
380735 - 48	1610555	7/09/2016	167	354716	5782414	Roadway	104.5	2.5 dry	Pass	
HDR:W17DS00439	1650	8/05/2017	1	354861	5782283		108.5	0.5 dry	Pass	
HDR:W17DS00439	1651	8/05/2017	2	354801	5782273		99.5	0.5 wet	Pass	
HDR:W17DS00439	1652	8/05/2017	3	354774	5782306		106.5	OMC	Pass	
HDR:W17DS00439	1653	8/05/2017	4	354816	5782323		94	0.5 wet	Fail	See retest 8395
HDR:W17DS00439	1654	8/05/2017	5	354861	5782334		95.5	OMC	Pass	
HDR:W17DS02277	8395	10/11/2017	1	354820	5782321		103.5	3.0 dry	Pass	Retest of 1653
HDR:W19DS02116	7421	25/09/2019	1	354728	5782312		103	3.0 wet	Pass	
HDR:W19DS02116	7422	25/09/2019	2	354730	5782287		103.5	OMC	Pass	
HDR:W19DS02117	7423	25/09/2019	1	354757	5782359		108.5	3.0 dry	Pass	
HDR:W19DS02123	7438	26/09/2019	1	354721	5782364	31.050	101.5	2.0 dry	Pass	
HDR:W19DS02123	7439	26/09/2019	2	354737	5782314	31.120	100	1.0 dry	Pass	

## Hilf Summary Table

3807351.009C Meridian Estate Stage 9C



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W19DS02133	7464	30/09/2019	1	354731	5782321	30.700	108.5	3.0 dry	Pass	
HDR:W19DS02133	7465	30/09/2019	2	354738	5782285	30.860	101	2.0 dry	Pass	
HDR:W19DS02143	7519	1/10/2019	1	354716	5782349	30.880	99.5	1.9 wet	Pass	
HDR:W19DS02154	7546	2/10/2019	1	354726	5782286	30.800	99	0.5 wet	Pass	
HDR:W19DS02154	7547	2/10/2019	2	354711	5782328	30.700	97.5	2.0 wet	Pass	
HDR:W19DS02168	7582	3/10/2019	1	354735	5782298	31.260	101	1.0 wet	Pass	
HDR:W19DS02168	7583	3/10/2019	2	354702	5782379	30.560	97	3.0 wet	Pass	
HDR:W19DS02181	7613	4/10/2019	1	354895	5782729	31.100	105	2.0 dry	Pass	
HDR:W19DS02181	7614	4/10/2019	2	354891	5782689	31.170	102.5	0.5 dry	Pass	
HDR:W19DS02181	7615	4/10/2019	3	354722	5782332	31.280	101.5	2.0 dry	Pass	
HDR:W19DS02181	7616	4/10/2019	4	354726	5782300	31.150	100.5	0.5 dry	Pass	
HDR:W19DS02199	7662	7/10/2019	1	354684	5782388	29.647	102	0.5 dry	Pass	
HDR:W19DS02199	7663	7/10/2019	2	354700	5782276	29.990	99	OMC	Pass	
HDR:W19DS02229	7778	10/10/2019	1	354765	5782241	31.170	104	2.0 dry	Pass	
HDR:W19DS02242	7816	11/10/2019	1	354767	5782295	31.960	97	0.5 dry	Pass	
HDR:W19DS02242	7817	11/10/2019	2	354745	5782221	30.830	95.5	2.0 wet	Pass	
HDR:W19DS02242	7818	11/10/2019	3	354764	5782212	30.850	98	0.5 wet	Pass	
HDR:W19DS02250	7838	14/10/2019	1	354741	5782259	31.160	99.5	OMC	Pass	
HDR:W19DS02250	7839	14/10/2019	2	354753	5782213	31.070	97	2.0 wet	Pass	



## Hilf Summary Table

3807351.009C Meridian Estate Stage 9C

Chadwick Geotechnics  
25 Metcalf Street  
Dandenong South VIC 3175  
Tel : ( 03 ) 8796 7900  
Fax: ( 03 ) 8796 7944



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test ( $\geq 95\%$ )	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W19DS02250	7840	14/10/2019	3	354777	5782203	31.250	95	OMC	Pass	
HDR:W19DS02250	7841	14/10/2019	4	354762	5782242	31.220	96.5	OMC	Pass	
HDR:W19DS02261	7873	15/10/2019	1	354772	5782224	31.167	100	OMC	Pass	
HDR:W19DS02261	7874	15/10/2019	2	354749	5782219	31.045	96.5	OMC	Pass	
HDR:W19DS02276	7942	16/10/2019	1	354739	5782254	31.440	100	OMC	Pass	
HDR:W19DS02276	7943	16/10/2019	2	354773	5782208	31.520	98.5	OMC	Pass	
HDR:W19DS02276	7944	16/10/2019	3	354775	5782302	32.160	100	OMC	Pass	
HDR:W19DS02292	7996	18/10/2019	1	354751	5782252	31.520	102.5	0.5 dry	Pass	
HDR:W19DS02292	7997	18/10/2019	2	354742	5782208	31.670	101.5	2.0 dry	Pass	
HDR:W19DS02292	7998	18/10/2019	3	354763	5782203	31.730	98	1.0 wet	Pass	
HDR:W19DS02315	8059	22/10/2019	1	354774	5782190	31.850	98.5	OMC	Pass	
HDR:W19DS02329	8110	23/10/2019	1	354784	5782265	32.200	101	OMC	Pass	
HDR:W20DS00028	102	13/01/2020	1	354778	5782402	32.657	102	OMC	Pass	

## Appendix C    NATA endorsed laboratory reports

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Head Office  
25 Metcalf Street  
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900  
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 26**

Report Date: 23/05/16

C.G Order No: **151744**

Test Method: AS1289.5.7.1

Page: 1 of 1

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606450	1606451	1606452	1606453	1606454	1606455			
ID No.:	1	2	3	4	5	6			
Lot No.:	-	-	-	-	-	-			
Date Sampled:	17/05/2016	17/05/2016	17/05/2016	17/05/2016	17/05/2016	17/05/2016			
Time Sampled:	am/pm	am/pm	am/pm	am/pm	am/pm	am/pm			
Date Tested:	19/05/2016	19/05/2016	19/05/2016	19/05/2016	19/05/2016	19/05/2016			
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived			
Material Description:	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay			
To Be Used As	Fill	Fill	Fill	Fill	Fill	Fill			
Sample Location :	E 354849 N 5782305 Layer 1	E 354881 N 5782304 Layer 1	E 354831 N 5782280 Layer 1	E 354902 N 5782228 Layer 1	E 354894 N 5782276 Layer 1	E 354855 N 5782268 Layer 1			
Layer Depth (mm):	150	150	150	150	150	150			
Test Depth (mm):	125	125	125	125	125	125			
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)			
Max Size (mm):	19.0	19.0	19.0	19.0	19.0	19.0			
Oversize Wet (%):	0	0	0	0	0	0			
Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1:	<b>2.09</b>	<b>2.12</b>	<b>2.02</b>	<b>2.09</b>	<b>2.07</b>	<b>2.08</b>			
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-	-			
PCWD (t/m <sup>3</sup> ):	<b>2.09</b>	<b>1.99</b>	<b>2.02</b>	<b>2.02</b>	<b>2.07</b>	<b>2.07</b>			
APCWD (t/m <sup>3</sup> )	-	-	-	-	-	-			
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-	-			
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-	-			
Moisture Variation (of omc):	<b>0.5% (wet)</b>	<b>0.5% (wet)</b>	<b>0.5% (wet)</b>	<b>2% (dry)</b>	<b>0.5% (wet)</b>	<b>0.5% (wet)</b>			
Adjusted Moisture Variation (of omc):	-	-	-	-	-	-			
Compactive Effort:	Standard	Standard	Standard	Standard	Standard	Standard			
<b>Hilf Density Ratio (%):</b>	<b>100.0</b>	<b>106.0</b>	<b>100.0</b>	<b>103.5</b>	<b>100.0</b>	<b>100.5</b>			
Min Hilf Density Ratio (%):	95	95	95	95	95	95			

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office  
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Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 29**

Report Date: 23/05/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606695	1606696	1606697	1606698	1606699				
ID No.:	1	2	3	4	5				
Lot No.:	-	-	-	-	-				
Date Sampled:	21/05/2016	21/05/2016	21/05/2016	21/05/2016	21/05/2016				
Time Sampled:	am	am	am	am	am				
Date Tested:	23/05/2016	23/05/2016	23/05/2016	23/05/2016	23/05/2016				
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived				
Material Description:	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay				
To Be Used As	Fill	Fill	Fill	Fill	Fill				
Sample Location :	E 354831 N 5782207 Layer 2	E 354835 N 5782243 Layer 2	E 354860 N 5782247 Layer 2	E 354816 N 5782284 Layer 2	E 355055 N 5782322 Layer 2				
Layer Depth (mm):	150	150	150	150	150				
Test Depth (mm):	125	125	125	125	125				
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)				
Max Size (mm):	19.0	19.0	19.0	19.0	19.0				
Oversize Wet (%):	0	0	0	0	0				
Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1:	<b>2.04</b>	<b>2.10</b>	<b>2.03</b>	<b>2.04</b>	<b>1.99</b>				
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-				
PCWD (t/m <sup>3</sup> ):	<b>2.06</b>	<b>2.03</b>	<b>1.98</b>	<b>2.07</b>	<b>1.97</b>				
APCWD (t/m <sup>3</sup> ):	-	-	-	-	-				
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-				
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-				
Moisture Variation (of omc):	<b>3% (wet)</b>	<b>0.5% (wet)</b>	<b>1% (dry)</b>	<b>2% (dry)</b>	<b>2% (dry)</b>				
Adjusted Moisture Variation (of omc):	-	-	-	-	-				
Compactive Effort:	Standard	Standard	Standard	Standard	Standard				
<b>Hilf Density Ratio (%):</b>	<b>99.0</b>	<b>103.0</b>	<b>102.5</b>	<b>98.5</b>	<b>101.0</b>				
Min Hilf Density Ratio (%):	95	95	95	95	95				

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013



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Report Number: 380735 - 34

Report Date: 09/06/16

C.G Order No: 152054

Test Method: AS1289.5.7.1

Page: 1 of 1

Customer: Grosevnor Lodge Pty Ltd  
Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175  
Project: Meridian Estate  
Location: Clyde North  
Customer Order No.: -

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1607236	1607237	1607238	1607239	1607240	1607241
ID No.:	1	2	3	4	5	6
Lot No.:	-	-	-	-	-	-
Date Sampled:	3/06/2016	3/06/2016	3/06/2016	3/06/2016	3/06/2016	3/06/2016
Time Sampled:	am/pm	am/pm	am/pm	am/pm	am/pm	am/pm
Date Tested:	6/06/2016	6/06/2016	6/06/2016	6/06/2016	6/06/2016	6/06/2016
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived
Material Description:	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
To Be Used As	Fill	Fill	Fill	Fill	Fill	Fill
Sample Location :	354882E 5782202N Layer 1	354880E 5782219N Layer 1	354877E 5782234N Layer 1	354861E 5782208N Layer 1	354864E 5782228N Layer 1	354860E 5782258N Layer 1
Layer Depth (mm):	175	175	175	175	175	175
Test Depth (mm):	150	150	150	150	150	150
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)
Max Size (mm):	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%):	0	0	0	0	0	0
Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1:	2.08	2.13	2.02	2.09	2.07	2.07
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-	-
PCWD (t/m <sup>3</sup> ):	2.03	2.07	2.04	2.11	2.05	2.01
APCWD (t/m <sup>3</sup> ):	-	-	-	-	-	-
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-	-
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-	-
Moisture Variation (of omc):	0.5% (wet)	1% (wet)	0.5% (wet)	1% (wet)	0.5% (wet)	0.5% (wet)
Adjusted Moisture Variation (of omc):	-	-	-	-	-	-
Compactive Effort:	Standard	Standard	Standard	Standard	Standard	Standard
Hilf Density Ratio (%):	102.5	103.0	99.5	99.0	100.5	103.0
Min Hilf Density Ratio (%):	95	95	95	95	95	95

Remarks:



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APPROVED SIGNATORY

M. Robinson

Form No.: CG.315.002

Issue Date: 19/02/2013

Head Office  
25 Metcalf Street  
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900  
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 48**

Report Date: 08/09/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

## HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	<b>1610555</b>									
ID No.:	1									
Lot No.:	-									
Date Sampled:	7/09/2016									
Time Sampled:	pm									
Date Tested:	8/09/2016									
Material Source:	Site Derived									
Material Description:	Silty Clay									
To Be Used As	Fill									
Sample Location :	Meridian Estate E354716 N57828414 Roadway									
Layer Depth (mm):	200									
Test Depth (mm):	150									
Sampling Procedure:	AS1289.1.2.1.6.4(b)									
Max Size (mm):	19.0									
Oversize Wet (%):	0									
Fld. Wet Density (t/m <sup>3</sup> ) AS 1289.5.8.1:	<b>2.03</b>									
Fld. Moisture Content (%) AS1289.2.1.1:	-									
PCWD (t/m <sup>3</sup> ):	<b>1.95</b>									
APCWD (t/m <sup>3</sup> ):	-									
O.M.C (%) AS1289.5.7.1:	-									
Moisture Ratio (%) AS1289.5.4.1:	-									
Moisture Variation (of omc):	<b>2.5% (dry)</b>									
Adjusted Moisture Variation (of omc):	-									
Compactive Effort:	Standard									
<b>Hilf Density Ratio (%):</b>	<b>104.5</b>									
Min Hilf Density Ratio (%):	95									

**Remarks:**



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APPROVED SIGNATORY

*A. Catton*

A. Catton

Form No.: **CG.315.002**

Issue Date: 19/02/2013

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate  
**Project No.:** 3807351  
**Order No.:**  
**TRN:**

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

Accredited for compliance with ISO/IEC 17025  
 - Testing



Accreditation No. 12719

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

Approved Signatory: M. Robinson  
 (Senior Technician)

12712 Date of Issue: 30/05/2017

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## Sample Details

**Location:** Stage 5  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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 Data

Sample ID	S17DS-01650	S17DS-01651	S17DS-01652	S17DS-01653	S17DS-01654
Field Sample ID	1	2	3	4	5
Date Tested	8/05/2017	8/05/2017	8/05/2017	8/05/2017	8/05/2017
E	354861	354801	354774	354816	354861
N	5782283	5782273	5782306	5782323	5782334
Soil Description	Clay	Clay	Clay	Clay	Clay

## Field and Laboratory Data

Depth of Test (mm)	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200
Oversize Wet (%)		2			
Field Wet Density (t/m <sup>3</sup> )	2.17	2.10	2.18	1.98	2.01
Peak Converted Wet Density (t/m <sup>3</sup> )	2.00	2.12	2.05	2.11	2.10
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.5 dry	0.5 wet	0.0	0.5 wet	0.0
Hilf Density Ratio (%)	<b>108.5</b>	<b>99.5</b>	<b>106.5</b>	<b>94.0</b>	<b>95.5</b>

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate Clyde Stage 7  
**Project No.:** 3807351.007  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



Accreditation No. 12719

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: 14/11/2017

12712

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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 Data

Sample ID	S17DS-08395				
Field Sample ID	1				
Date Tested	10/11/2017				
E	354820				
N	5782321				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Field Wet Density (t/m <sup>3</sup> )	2.02				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.95				
Compactive Effort	Standard				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	<b>103.5</b>				

## Comments



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**Report No: HDR:W19DS02116**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**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: 30/09/2019  
 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-07421	S19DS-07422			
Field Sample ID	1	2			
Date Tested	25/09/2019	25/09/2019			
Location	354728	354730			
E	5782312	5782287			
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)	2.10	2.07			
Peak Converted Wet Density (t/m³)	2.04	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 wet	0.0			
Hilf Density Ratio (%)	<b>103.0</b>	<b>103.5</b>			

## Comments



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**Report No: HDR:W19DS02117**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 30/09/2019  
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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-07423				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	25/09/2019				
<b>Location</b>	354757				
<b>E</b>	5782359				
<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>	0				
<b>Field Wet Density (t/m³)</b>	2.03				
<b>Peak Converted Wet Density (t/m³)</b>	1.87				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	3.0 dry				
<b>Hilf Density Ratio (%)</b>	<b>108.5</b>				

## Comments



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**Report No: HDR:W19DS02123**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 30/09/2019  
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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-07438	S19DS-07439			
Field Sample ID	1	2			
Date Tested	26/09/2019	26/09/2019			
Location	354721	354737			
E	5782364	5782314			
N	RL 31.05 m	RL 31.12 m			
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 (%)	2	0			
Field Wet Density (t/m <sup>3</sup> )	2.03	2.05			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	1.0 dry			
Hilf Density Ratio (%)	<b>101.5</b>	<b>100.0</b>			

## Comments



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**Report No: HDR:W19DS02133**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



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Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 4/10/2019

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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-07464	S19DS-07465			
Field Sample ID	1	2			
Date Tested	30/09/2019	30/09/2019			
E	354731	354738			
N	5782321	5782285			
	RL 30.70 m	RL 30.86			
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/m <sup>3</sup> )	2.05	2.04			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.89	2.02			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 dry	2.0 dry			
Hilf Density Ratio (%)	<b>108.5</b>	<b>101.0</b>			

## Comments





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**Report No: HDR:W19DS02143**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



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Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 4/10/2019

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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-07519				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	1/10/2019				
<b>E</b>	354716				
<b>N</b>	5782349				
	RL 30.88 m				
<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>	0				
<b>Field Wet Density (t/m³)</b>	2.06				
<b>Peak Converted Wet Density (t/m³)</b>	2.07				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	2.0 wet				
<b>Hilf Density Ratio (%)</b>	<b>99.5</b>				

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS02154**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:**  
**TRN:**

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

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 2/12/2019

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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-07546	S19DS-07547			
Field Sample ID	1	2			
Date Tested	2/10/2019	2/10/2019			
E	354726	354711			
N	5782286	5782328			
	RL 30.80 m	RL 30.70 m			
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)	2.06	2.03			
Peak Converted Wet Density (t/m³)	2.08	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	2.0 wet			
Hilf Density Ratio (%)	<b>99.0</b>	<b>98.0</b>			

## Comments



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

Ph: + 61 3 8796 7900  
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**Report No: HDR:W19DS02168**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**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: 11/11/2019  
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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-07582	S19DS-07583			
Field Sample ID	1	2			
Date Tested	3/10/2019	3/10/2019			
Location	354735	354702			
E	5782298	5782379			
N	RL 31.26 m	RL 30.56 m			
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/m <sup>3</sup> )	2.04	2.01			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02	2.08			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 wet	3.0 wet			
Hilf Density Ratio (%)	<b>101.0</b>	<b>97.0</b>			

## Comments



**Dandenong South**  
**ACN 143 009 330**  
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**Report No: HDR:W19DS02181**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



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Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 16/01/2020

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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-07613	S19DS-07614	S19DS-07615	S19DS-07616		
Field Sample ID	1	2	3	4		
Date Tested	4/10/2019	4/10/2019	4/10/2019	4/10/2019		
Location	354895	354891	354722	354726		
E	5782729	5782689	5782332	5782300		
N	RL 31.10 m	RL 31.17 m	RL 31.28 m	RL 31.15 m		
Soil Description	Clay	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150	150		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Wet Density (t/m³)	2.07	2.07	2.05	2.08		
Peak Converted Wet Density (t/m³)	1.97	2.02	2.01	2.07		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	2.0 dry	0.5 dry	2.0 dry	0.5 dry		
Hilf Density Ratio (%)	<b>105.0</b>	<b>102.5</b>	<b>101.5</b>	<b>100.5</b>		

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS02199**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**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: 11/11/2019  
 12712  
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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

Sample ID	S19DS-07662	S19DS-07663			
Field Sample ID	1	2			
Date Tested	7/10/2019	7/10/2019			
Location	Summit	Summit			
	354684	354700			
	5782388	5782276			
	RL: 29.647	RL: 29.990			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.00	2.03			
Peak Converted Wet Density (t/m³)	1.96	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.0			
Hilf Density Ratio (%)	<b>102.0</b>	<b>99.0</b>			

## Comments



**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:W19DS02229**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**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: 11/11/2019

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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

<b>Sample ID</b>	S19DS-07778				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	10/10/2019				
<b>Location</b>	354765				
	5782241				
	RL: 31.17				
<b>Soil Description</b>	CLAY				
<b>Depth of Test (mm)</b>	200				
<b>Depth of Layer (mm)</b>	175				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	2.11				
<b>Peak Converted Wet Density (t/m³)</b>	2.03				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	2.0 dry				
<b>Hilf Density Ratio (%)</b>	<b>104.0</b>				

## Comments



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**Report No: HDR:W19DS02242**

**Issue No: 2**

*This report replaces all previous issues of report no 'HDR:W19DS02242'.*

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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: 11/11/2019

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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

Sample ID	S19DS-07816	S19DS-07817	S19DS-07818		
Field Sample ID	1	2	3		
Date Tested	11/10/2019	11/10/2019	11/10/2019		
Location	354767	354745	354764		
	5782295	5782221	5782212		
	RL: 31.96	RL: 30.83	RL: 30.85		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
Depth of Layer (mm)	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0		
Field Wet Density (t/m³)	1.92	2.00	2.04		
Peak Converted Wet Density (t/m³)	1.97	2.09	2.08		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	2.0 wet	0.5 wet		
Hilf Density Ratio (%)	<b>97.0</b>	<b>95.5</b>	<b>98.0</b>		

## Comments



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Ph: + 61 3 8796 7900  
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**Report No: HDR:W19DS02250**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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: 11/11/2019  
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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

Sample ID	S19DS-07838	S19DS-07839	S19DS-07840	S19DS-07841		
Field Sample ID	1	2	3	4		
Date Tested	14/10/2019	14/10/2019	14/10/2019	14/10/2019		
Location	354741	354753	354777	354762		
	5782259	5782213	5782203	5782242		
	RL: 31.16	RL: 31.07	RL: 31.25	RL: 31.22		
Soil Description	CLAY	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Wet Density (t/m³)	2.03	2.04	2.02	2.01		
Peak Converted Wet Density (t/m³)	2.04	2.10	2.13	2.08		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	2.0 wet	0.0	0.0		
Hilf Density Ratio (%)	<b>99.5</b>	<b>97.0</b>	<b>95.0</b>	<b>96.5</b>		

## Comments





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**Report No: HDR:W19DS02261**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**Order No.:**  
**TRN:**

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

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

**Location:** meridian estate stage 9B  
**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:**  
**Material:**

Sample ID	S19DS-07873	S19DS-07874			
Field Sample ID	1	2			
Date Tested	15/10/2019	15/10/2019			
E:	354772	354749			
N:	5782224	5782219			
	31.167	31.045			
Soil Description	clay (general fill)	clay (general fill)			
Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m <sup>3</sup> )	2.12	2.08			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.12	2.15			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	<b>100.0</b>	<b>96.5</b>			

## Comments



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**Report No: HDR:W19DS02276**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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.

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

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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

Sample ID	S19DS-07942	S19DS-07943	S19DS-07944		
Field Sample ID	1	2	3		
Date Tested	16/10/2019	16/10/2019	16/10/2019		
Location	354739	354773	354775		
	5782254	5782208	5782302		
	RL: 31.44	RL: 31.52	RL 32.16		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
Depth of Layer (mm)	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0		
Field Wet Density (t/m³)	2.13	2.10	2.14		
Peak Converted Wet Density (t/m³)	2.14	2.13	2.14		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	0.0		
Hilf Density Ratio (%)	<b>100.0</b>	<b>98.5</b>	<b>100.0</b>		

## Comments



**Dandenong South**  
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**Report No: HDR:W19DS02292**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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: 11/11/2019

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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

Sample ID	S19DS-07996	S19DS-07997	S19DS-07998		
Field Sample ID	1	2	3		
Date Tested	18/10/2019	18/10/2019	18/10/2019		
Location	354751	354742	354763		
	5782252	5782208	5782203		
	RL: 31.52	RL: 31.67	RL: 31.73		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
Depth of Layer (mm)	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0		
Field Wet Density (t/m³)	2.08	2.05	1.88		
Peak Converted Wet Density (t/m³)	2.02	2.02	1.92		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	2.0 dry	1.0 wet		
Hilf Density Ratio (%)	<b>102.5</b>	<b>101.5</b>	<b>98.0</b>		

**Comments**



**Dandenong South**  
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**Report No: HDR:W19DS02315**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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: 11/11/2019

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## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

<b>Sample ID</b>	S19DS-08059				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	22/10/2019				
<b>Location</b>	354774				
	5782190				
	RL: 31.85				
<b>Soil Description</b>	CLAY				
<b>Depth of Test (mm)</b>	200				
<b>Depth of Layer (mm)</b>	175				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	1.89				
<b>Peak Converted Wet Density (t/m³)</b>	1.92				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.0				
<b>Hilf Density Ratio (%)</b>	<b>98.5</b>				

**Comments**



**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:W19DS02329**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9B  
**Project No.:** 3807351.009B  
**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: 11/11/2019  
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 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde Nth  
**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:** Imported  
**Material:** General Fill

<b>Sample ID</b>	S19DS-08110				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	23/10/2019				
<b>Location</b>	354784				
	5782265				
	RL: 32.20				
<b>Soil Description</b>	CLAY				
<b>Depth of Test (mm)</b>	175				
<b>Depth of Layer (mm)</b>	200				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	2.09				
<b>Peak Converted Wet Density (t/m³)</b>	2.06				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.0				
<b>Hilf Density Ratio (%)</b>	<b>101.0</b>				

## Comments



**Dandenong South**  
**ACN 143 009 330**  
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 DANDENONG SOUTH, VIC 3175

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

**Report No: HDR:W20DS00028**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 9  
**Project No.:** 3807351.009  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 16/01/2020

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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>	S20DS-00102				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	13/01/2020				
<b>Location</b>	354778				
<b>E</b>	5782402				
<b>N</b>	RL 32.657				
<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>	0				
<b>Field Wet Density (t/m³)</b>	1.95				
<b>Peak Converted Wet Density (t/m³)</b>	1.91				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.0				
<b>Hilf Density Ratio (%)</b>	<b>102.0</b>				

## Comments

## Appendix D: Controlled fill certificates

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9082  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

---

### 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 (17 May 2016 to 23<sup>rd</sup> October 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: 9083  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

---

### 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 (17 May 2016 to 23<sup>rd</sup> October 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: 9084  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

---

### 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 (17 May 2016 to 23<sup>rd</sup> October 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: 9085 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9086 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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PROJECT : Lot No: 9087 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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PROJECT : Lot No: 9088 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

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Project Director

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PROJECT : Lot No: 9089  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9090 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9091 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9092 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9093 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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DANDENONG SOUTH VIC 3164

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PROJECT : Lot No: 9094 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9095  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9096  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
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PROJECT : Lot No: 9097 Chadwick Geotechnics REF: 3807351.09C.v1  
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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: 9099 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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: 9100 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9101 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9102 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9103  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

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### SUMMARY

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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: 9104  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

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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: 9105 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9106 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9107 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9108 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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PROJECT : Lot No: 9109 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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DANDENONG SOUTH VIC 3164

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PROJECT : Lot No: 9110 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9111  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

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PROJECT : Lot No: 9112 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9113 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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 (17 May 2016 to 23<sup>rd</sup> October 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: 9114 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
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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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9115 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9116 Chadwick Geotechnics REF: 3807351.09C.v1  
Meridian Estate Stage 9C

CLIENT : Grosvenor Lodge Pty Ltd DATE : August 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: GG  
Meridian Estate Stage 9C  
Chadwick Geotechnics REF: 3807351.09C.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : August 2020

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