



## Brisbane Soil Testing

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No.1418

20 November 2018

BMD Constructions Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

### **RE: CAPESTONE ESTATE – STAGE 12B** (Allotment Fill – Geotechnical Inspection & Testing)

## **SCOPE**

Brisbane Soil Testing were commissioned by BMD Constructions Pty Ltd to provide geotechnical inspection and testing of the allotment earthworks on the above stage subdivision.

Some filling was required as part of the development and for this work, our site presence was maintained in accordance with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments" Appendix B, "Level 1". As directed the scope of the Level 1 inspection and testing was:

- (i) check adequacy of pre-fill ground preparation
- (ii) remove unsuitable materials
- (iii) inspect and carry out compaction control testing of placed fill materials

## **CONTROL INSPECTION AND TESTING**

An inspection of a large area known as Capestone Future Stage 6 & 6A was carried out on 24 March 2014 and on a continuing basis as earthworks progressed. This area was proof rolled with a loaded water truck and approval for filling given. Capestone Future Stage 6 & 6A is shown on the attached drawing No. B00086-CE002 REV B titled Capestone Future Stage 6.

Bulk earthworks then commenced on this area known as Capestone Future Stages 6 & 6A, which included the Future Stages 11 & 12. During these bulk earthworks phases, Brisbane Soil Testing supervised, controlled the filling, and testing was carried out as per Table 8.1 of AS3798-2007 Type 1, large scale operations. The locations of all tests carried out during the bulk earthworks phases are shown on the attached drawing

No. BST-BEW-ST11&12 titled Capestone Future St 11&12 Bulk Earthworks Test Locations.

In August 2018, filling to Stage 12B commenced to bring the lots up to the design final level and this phase of the earthworks was controlled as per Table 8.1 of AS3798-2007 (Type 2 -Small scale operations).

On-site cut materials were used for filling and these materials were generally placed in 0.20m loose horizontal layers and compacted with an 815/825 compactor and a vibrating pad foot roller.

Four hundred and fourty-five field density tests were carried out during the two phases, which were between 24 March 2014 and 25 May 2016 and again between 9 August 2018 and 3 October 2018. These tests recorded Dry Density Ratios between 95.0% and 105.5% relative to the standard compaction test and field moisture contents within -4.5% and +5.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B37/6, B37/11 and B194/0 (Report Nos. 33650-33652, 33641, 33642, 33667-33671, 33779, 33785, 33786, 34110-34121, 34129-34131, 34332-34336, 34338-34341, 40780-40823, 42573, 42575, 42576, 42578, 42579-42585, 42628-42632, 42634-42639, 42686-42688, 42720, 42723, 42834 and 42734) provide full test data for the compaction control tests.

## CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 of AS3798-2007 and the project specifications.

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided. We further confirm that all filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.



GREG McGRANN  
**BRISBANE SOIL TESTING**

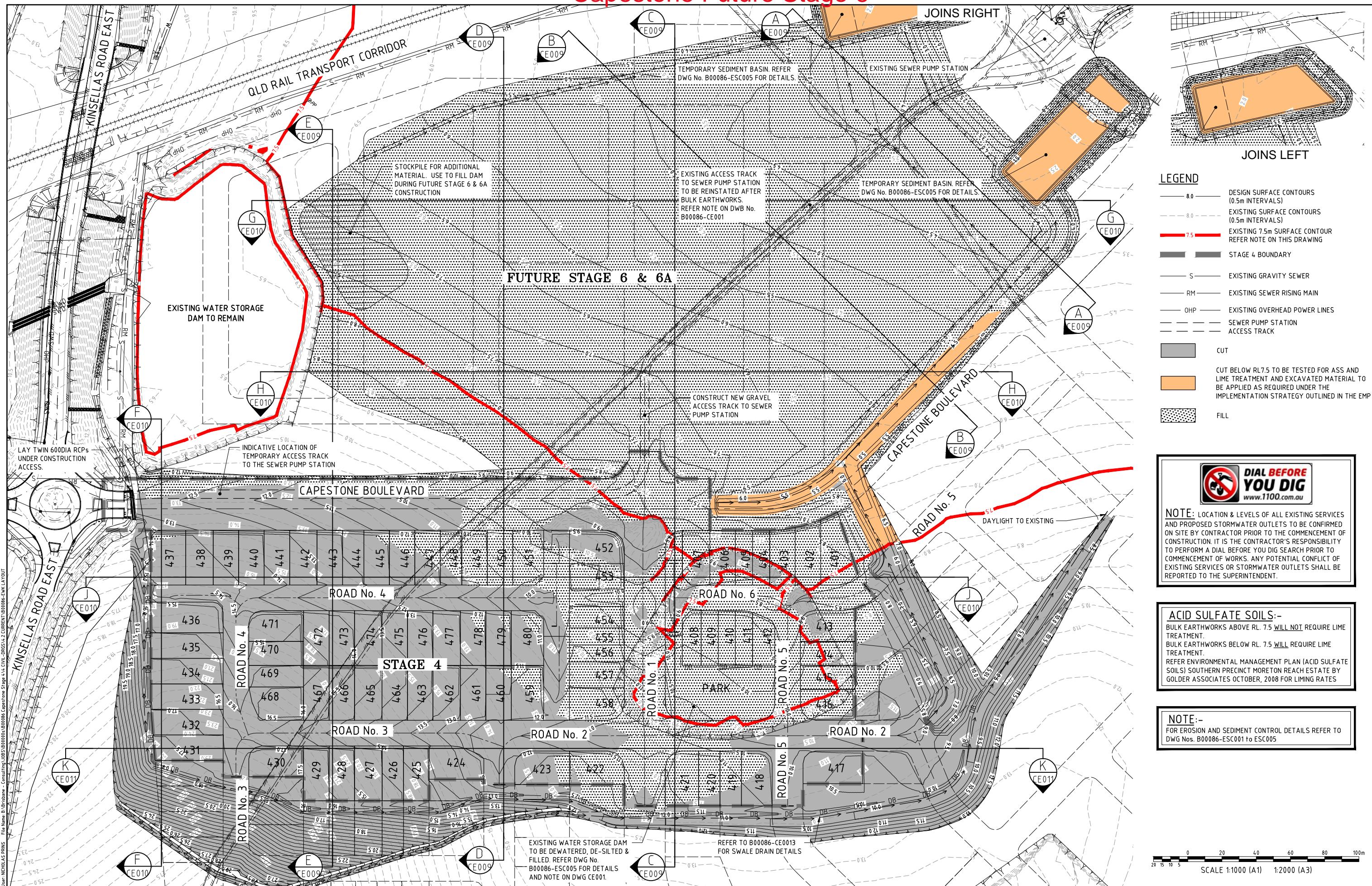


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2/2

# Capestone Future Stage 6



User: NICHOLAS PRINS File Name: B:\Brisbane - Consulting\JOBS\B00086\B00086\_Civil\_Design\Stage 4\5\_CIVIL\_CAD\Stage 4\5\_CURRENT\B00086-EWK.LAYOUT

Plot Date: 10/01/2014 15:58:07 PM

B	REVISED TO RFI
A	ORIGINAL ISSUE

Amendments

Drawn Design  
WS NP DP  
19/07 10/01/14

Appd  
DP  
19/07 20/11/13

Reg No.

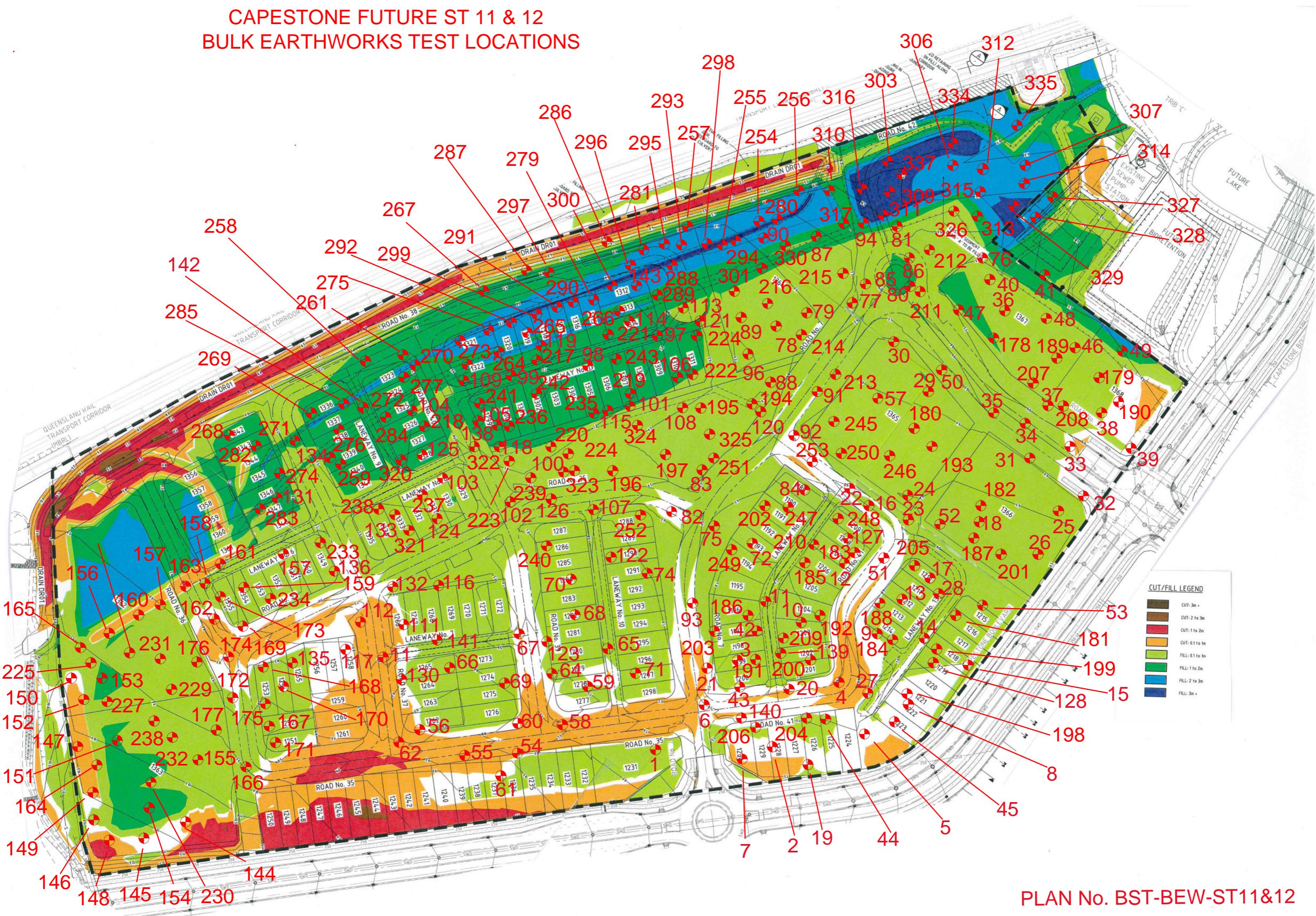
Date



Civil Client: URBEX PTY LTD  
Project: CAPESTONE STAGE 4  
Title: BULK EARTHWORKS LAYOUT PLAN  
SHEET 1 OF 2

Datum AHD  
PSM 38847  
RL 10.649  
(MGA) COORD  
**NOT FOR CONSTRUCTION**  
Project No. Drawing No. Rev  
**B00086-CE002** B

# CAPESTONE FUTURE ST 11 & 12 BULK EARTHWORKS TEST LOCATIONS



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1232**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

490 (14271)	21.08.18	o/s 13m Front bdy, o/s 1m Rear bdy. R.L.8.01.	99.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1232 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

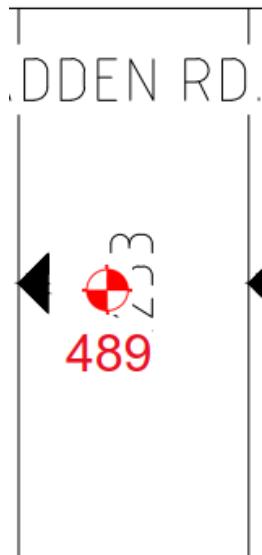
  
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**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1233**

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**Field Density Results**

**Page 1 of 1**

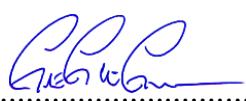
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

489 (14270)    21.08.18    o/s 10m Front bdy, o/s 3m Left bdy. R.L.7.97.    97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

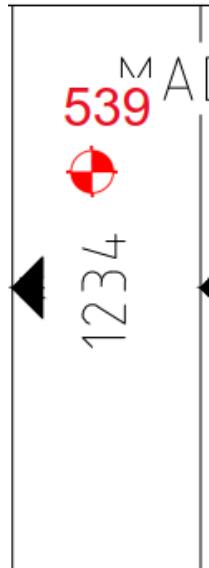
In our opinion all fill on Lot 1233 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1234**



**Field Density Results**

**Page 1 of 1**

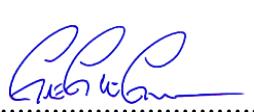
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

539 (14522)      11.09.18      o/s 7m Front bdy, o/s 3m Right bdy. R.L.8.26.      102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1234 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1235**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

538 (14521)      11.09.18      o/s 6m Front bdy, o/s 1m Left bdy. R.L.8.30.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

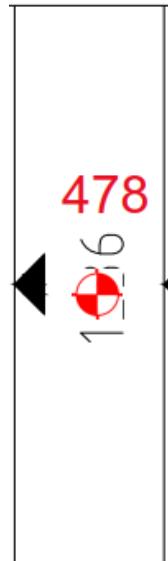
In our opinion all fill on Lot 1235 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1236**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

478 (14167)      14.08.18      o/s 10m Front bdy, o/s 3m Right bdy. R.L.8.55.      102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1236 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

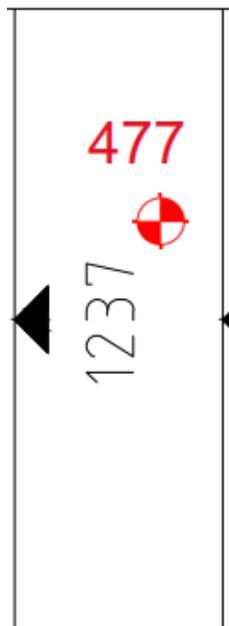
  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1237**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

477 (14166)      14.08.18      o/s 7m Front bdy, o/s 2m Left bdy. R.L.8.60.      97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

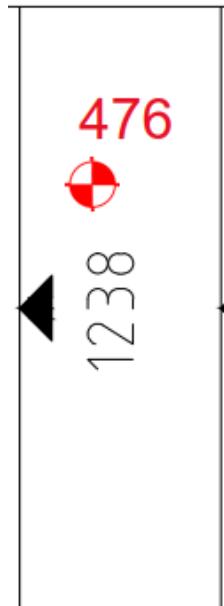
In our opinion all fill on Lot 1237 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1238**



**Field Density Results**

**Page 1 of 1**

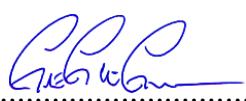
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

476 (14165)      14.08.18      o/s 8m Front bdy, o/s 3m Right bdy. R.L.8.71.      101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1238 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

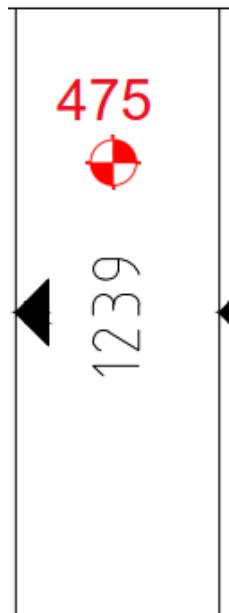
  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1239**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

475 (14164)      14.08.18      o/s 5m Front bdy, o/s 2m Right bdy. R.L.8.85.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

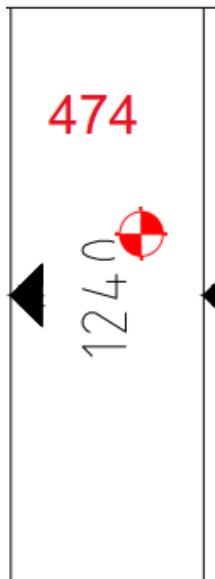
In our opinion all fill on Lot 1239 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1240**



**Field Density Results**

**Page 1 of 1**

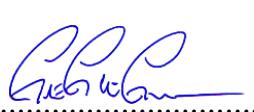
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

474 (14163)      14.08.18      o/s 8m Front bdy, o/s 3m Left bdy. R.L.9.11.      100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1240 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

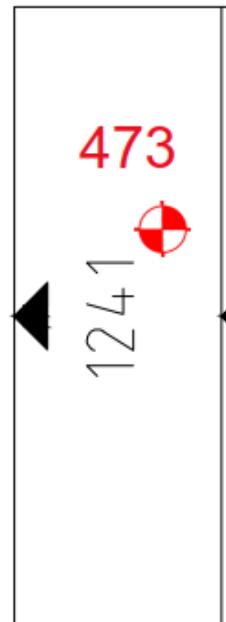
  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1241**

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**Field Density Results**

**Page 1 of 1**

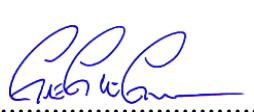
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

473 (14162)	14.08.18	o/s 7m Front bdy, o/s 3m Left bdy. R.L.9.25.	98.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1241 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

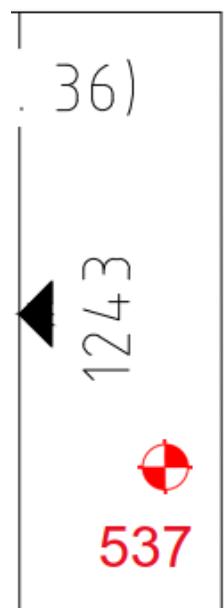
  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1243**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

537 (14520)	11.09.18	o/s 5m Rear bdy, o/s 3m Right bdy. R.L.9.74.	97.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

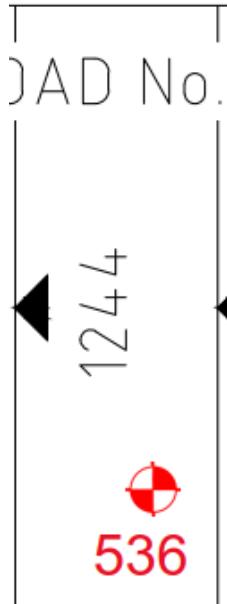
In our opinion all fill on Lot 1243 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1244**



**Field Density Results**

**Page 1 of 1**

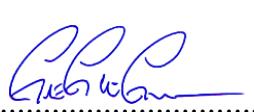
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

536 (14519)      11.09.18      o/s 4m Rear bdy, o/s 3m Right bdy. R.L.9.62.      97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1244 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

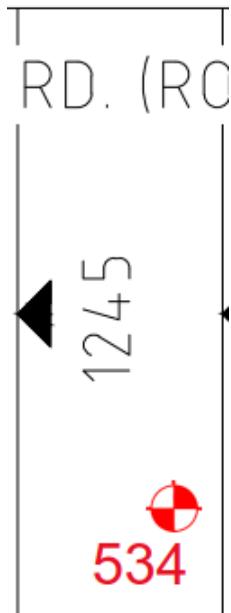
  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1245**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

534 (14517)      11.09.18      o/s 4m Rear bdy, o/s 2m Right bdy. R.L.9.97.      101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

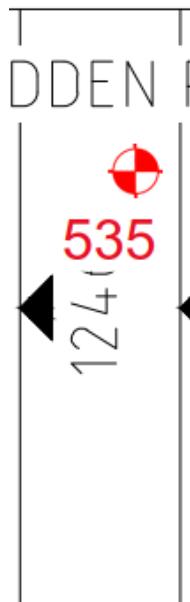
In our opinion all fill on Lot 1245 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1246**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

535 (14518)	11.09.18	o/s 4m Front bdy, o/s 2m Left bdy. R.L.9.84.	96.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1246 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

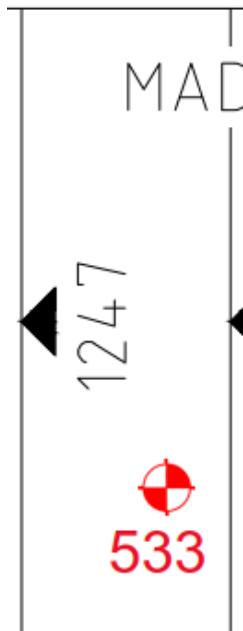
  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1247**

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**Field Density Results**

**Page 1 of 1**

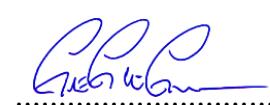
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

533 (14516)      11.09.18      o/s 5m Rear bdy, o/s 2m Left bdy. R.L.10.19.      101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1247 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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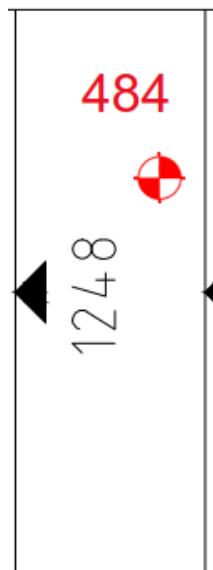
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1248**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

484 (14247)	20.08.18	o/s 9m Front bdy, o/s 3m Left bdy. R.L.10.21.	98.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1248 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

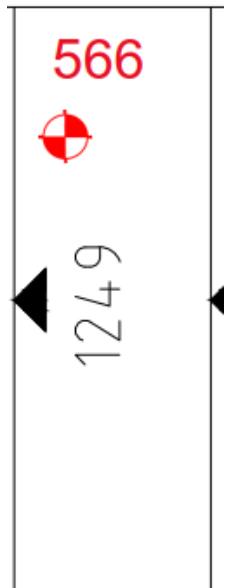
  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1249**

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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

566 (14754)      27.09.18      o/s 7m Front bdy, o/s 3m Right bdy. R.L.10.06.      96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1249 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

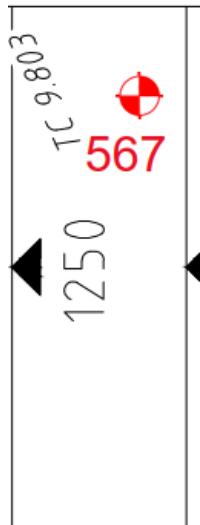
  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1250**

R10 /  
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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

567 (14755)      27.09.18      o/s 6m Front bdy, o/s 2m Left bdy. R.L.10.27.      98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

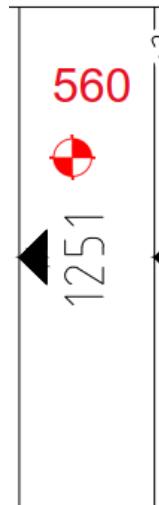
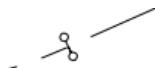
In our opinion all fill on Lot 1250 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1251**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

560 (14645)      20.09.18      o/s 8m Front bdy, o/s 2m Right bdy. R.L.10.44.      102.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1251 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

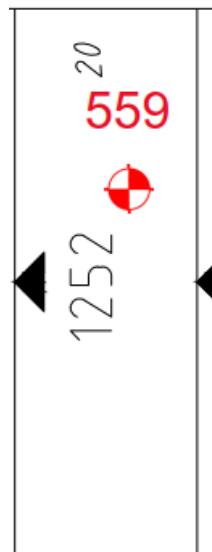
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1252**

R30  
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**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

559 (14583)      14.09.18      o/s 8m Front bdy, o/s 3m Right bdy. R.L.10.49.      98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

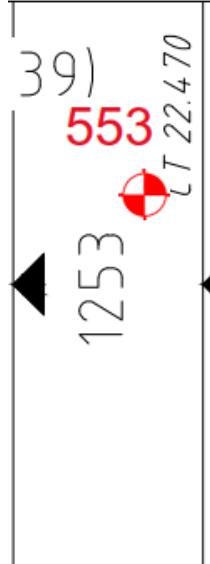
In our opinion all fill on Lot 1252 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1253**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

553 (14570)	13.09.18	o/s 8m Front bdy, o/s 2m Left bdy. R.L.10.62.	99.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1253 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

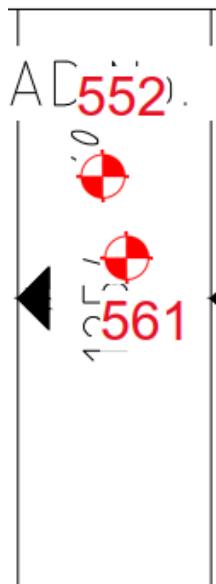
  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1254**

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**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

552 (14569)	13.09.18	o/s 7m Front bdy, o/s 1m Right bdy. R.L.10.34.	99.0
561 (14658)	21.09.18	o/s 12m Front bdy, o/s 3m Left bdy. R.L.10.82.	98.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

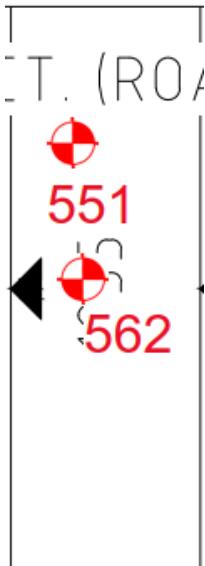
In our opinion all fill on Lot 1254 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1255**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

551 (14568)	13.09.18	o/s 7m Front bdy, o/s 3m Right bd. R.L.10.42.	102.0
562 (14659)	21.09.18	o/s 11m Front bdy, o/s 2m Right bdy. R.L.10.90.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1255 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

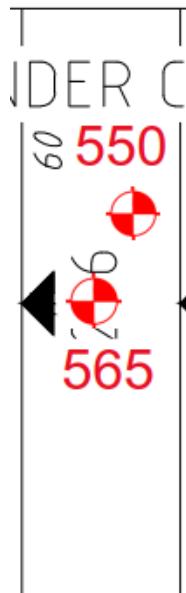
  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1256**

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**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

550 (14567)	13.09.18	o/s 6m Front bdy, o/s 2m Left bdy. R.L.10.49.	99.0
565 (14753)	27.09.18	o/s 9m Front bdy, o/s 2m Right bdy. R.L.10.84.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

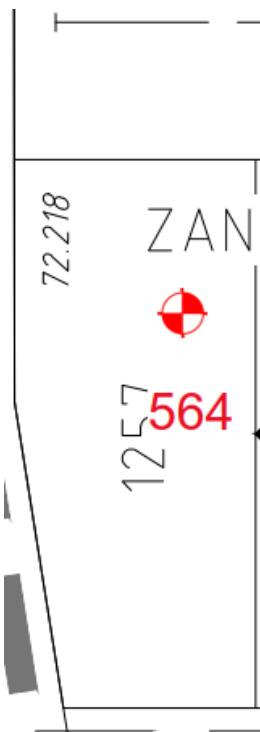
In our opinion all fill on Lot 1256 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1257**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

564 (14752)	27.09.18	o/s 6m Front bdy, o/s 3m Left bdy. R.L.10.97.	98.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

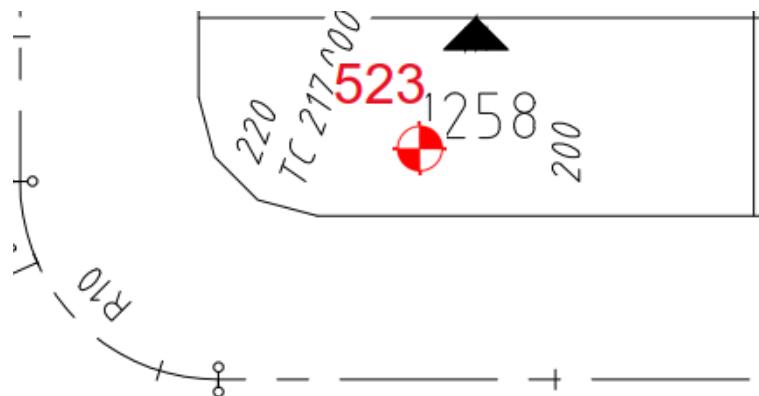
In our opinion all fill on Lot 1257 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1258**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

523 (14487)	07.09.18	o/s 7m Front bdy, o/s 2m Right bdy. R.L.9.61.	95.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

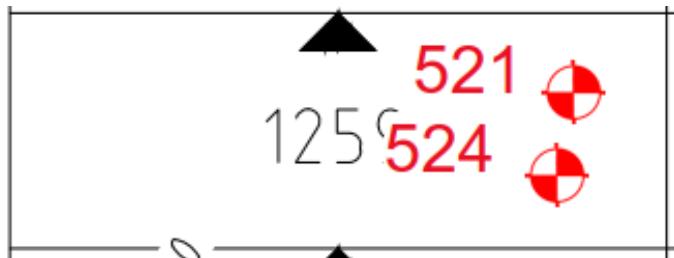
In our opinion all fill on Lot 1258 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1259**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

521 (14414)	03.09.18	o/s 6m Rear bdy, o/s 2m Left bdy. R.L.9.16.	101.5
524 (14488)	07.09.18	o/s 2m Rear bdy, o/s 4m Right bdy. R.L.9.69.	95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

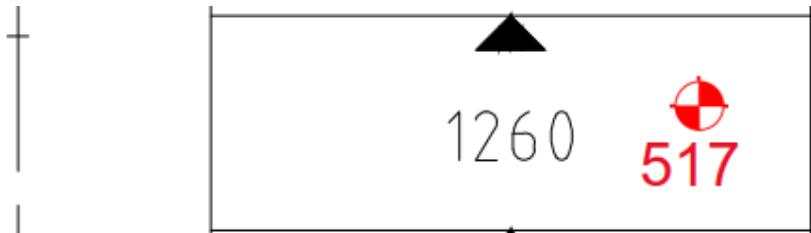
In our opinion all fill on Lot 1259 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1260**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

517 (14410)      01.09.18      o/s 4m Rear bdy, o/s 2m Left bdy. R.L.8.60.      101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

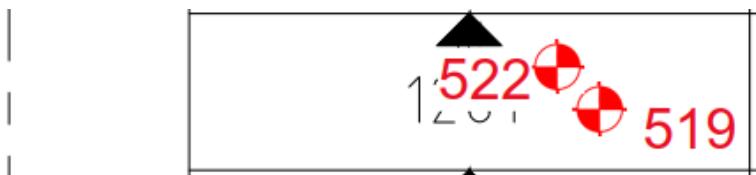
In our opinion all fill on Lot 1260 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1261**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

519 (14412)	01.09.18	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.8.51.	98.0
522 (14415)	03.09.18	o/s 9m Rear bdy, o/s 1m Left bdy. R.L.8.92.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

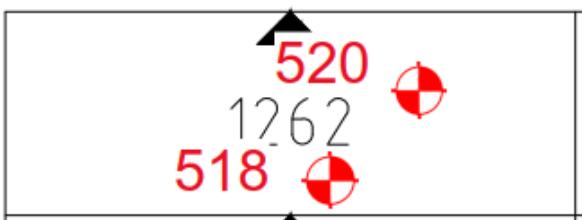
In our opinion all fill on Lot 1261 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1262**



**Field Density Results**

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<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

518 (14411)	01.09.18	o/s 6m Rear bdy, o/s 2m Left bdy. R.L.8.38.	103.5
520 (14413)	01.09.18	o/s 11m Front bdy, o/s 2m Left bdy. R.L.8.70.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

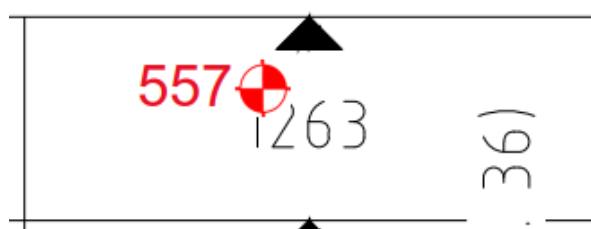
In our opinion all fill on Lot 1262 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1263**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

557 (14581)      14.09.18      o/s 12m Rear bdy, o/s 3m Right bdy. R.L.8.20.      97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1263 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1264**



**Field Density Results**

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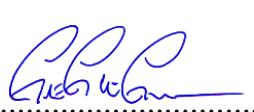
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

558 (14582)      14.09.18      o/s 9m Rear bdy, o/s 2m Left bdy. R.L.8.24.      96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

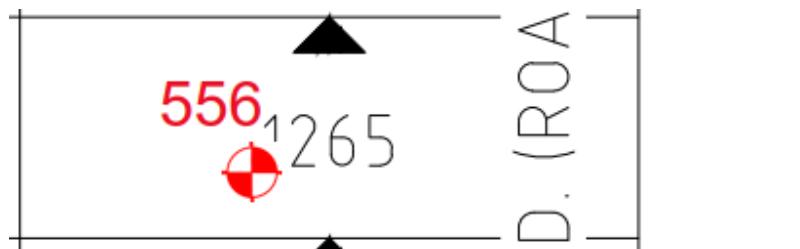
In our opinion all fill on Lot 1264 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1265**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

556 (14574)	13.09.18	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.8.49.	97.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

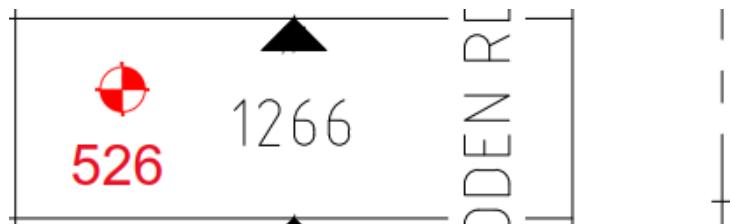
In our opinion all fill on Lot 1265 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1266**



**Field Density Results**

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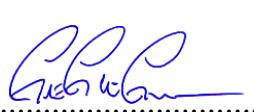
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

526 (14490)      07.09.18      o/s 2m Rear bdy, o/s 3m Left bdy. R.L.8.73.      103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

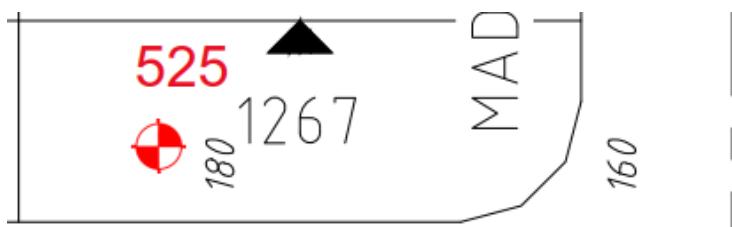
In our opinion all fill on Lot 1266 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1267**



**Field Density Results**

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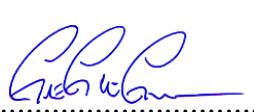
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

525 (14489)      07.09.18      o/s 2m Rear bdy, o/s 4m Right bdy. R.L.8.92.      101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

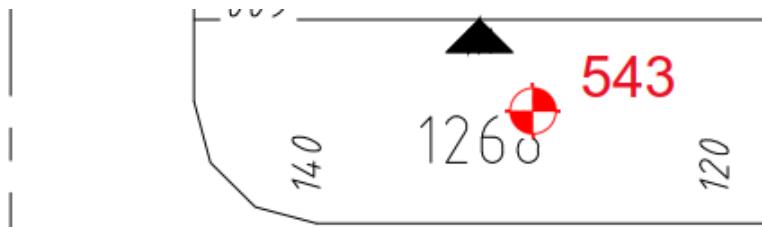
In our opinion all fill on Lot 1267 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1268**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

543 (14534)      12.09.18      o/s 13m Front bdy, o/s 3m Left bdy. R.L.8.54.      101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

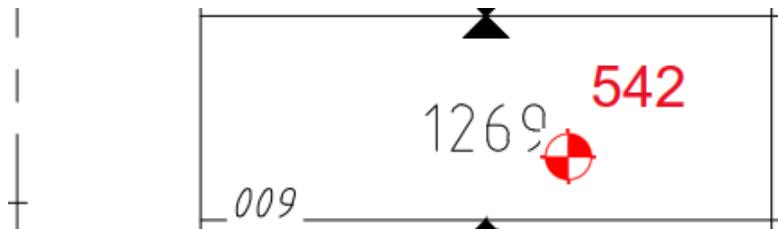
In our opinion all fill on Lot 1268 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1269**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

542 (14533)      12.09.18      o/s 11m Rear bdy, o/s 4m Right bdy. R.L.8.52.      98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

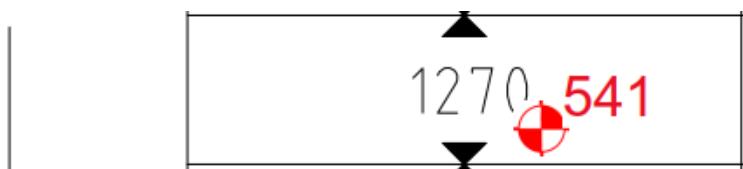
In our opinion all fill on Lot 1269 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1270**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

541 (14532)	12.09.18	o/s 9m Rear bdy, o/s 2m Right bdy. R.L.8.36.	97.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

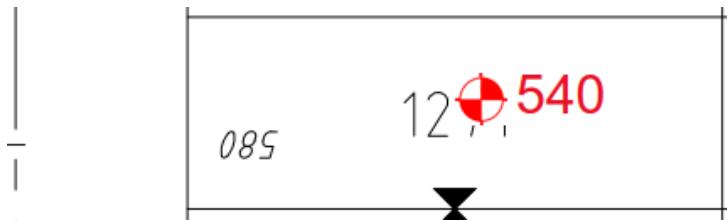
In our opinion all fill on Lot 1270 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1271**



**Field Density Results**

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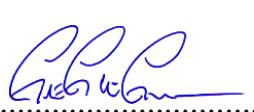
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

540 (14531)      12.09.18      o/s 12m Rear bdy, o/s 3m Left bdy. R.L.7.98.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

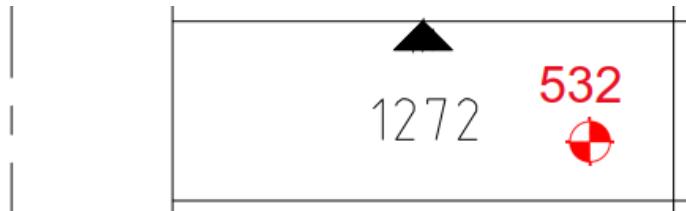
In our opinion all fill on Lot 1271 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1272**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

532 (14496)      07.09.18      o/s 7m Rear bdy, o/s 2m Right bdy. R.L.7.90.      100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

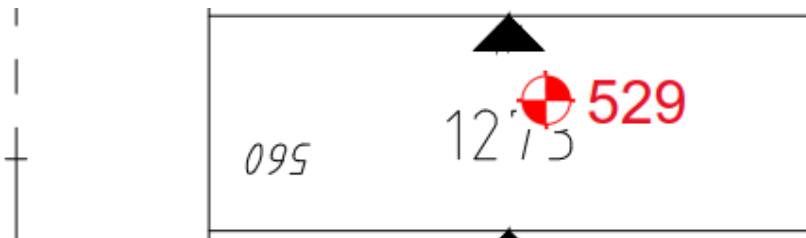
In our opinion all fill on Lot 1272 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1273**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

529 (14493)      07.09.18      o/s 10m Front bdy, o/s 3m Left bdy. R.L.7.70.      99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

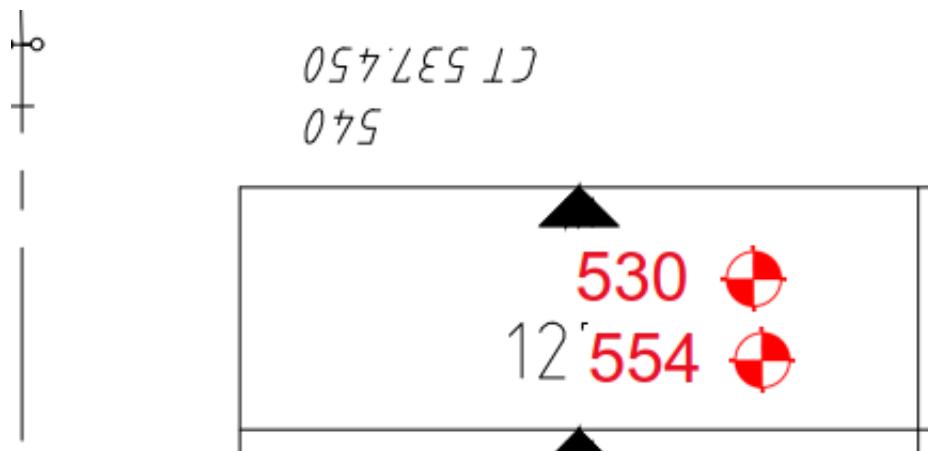
In our opinion all fill on Lot 1273 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1274**



**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

530 (14494)	07.09.18	o/s 7m Rear bdy, o/s 4m Left bdy. R.L.7.51.	102.0
554 (14572)	13.09.18	o/s 7m Rear bdy, o/s 3m Right bdy. R.L.7.81.	101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1274 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1275**



**Field Density Results**

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<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

528 (14492)      07.09.18      o/s 9m Rear bdy, o/s 3m Right bdy. R.L.7.38.      98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

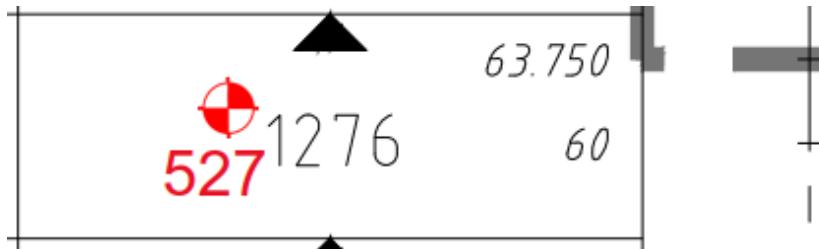
In our opinion all fill on Lot 1275 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1276**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

527 (14491)      07.09.18      o/s 7m Rear bdy, o/s 4m Left bdy. R.L.7.40.      97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

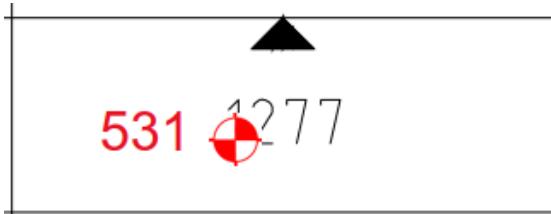
In our opinion all fill on Lot 1276 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1277**



**Field Density Results**

**Page 1 of 1**

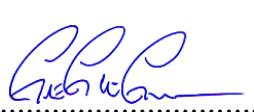
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

531 (14495)      07.09.18      o/s 13m Front bdy, o/s 3m Left bdy. R.L.7.22.      101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

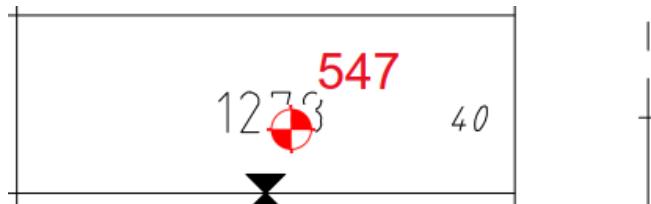
In our opinion all fill on Lot 1277 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



**Brisbane Soil Testing**  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1278**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

547 (14539)      12.09.18      o/s 9m Front bdy, o/s 3m Left bdy. R.L.7.40.      99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

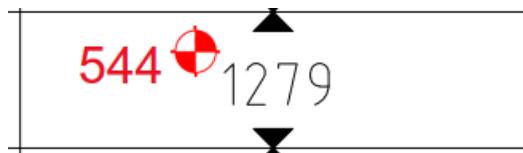
In our opinion all fill on Lot 1278 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1279**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

544 (14535)      12.09.18      o/s 8m Rear bdy, o/s 2m Right bdy. R.L.7.65.      102.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

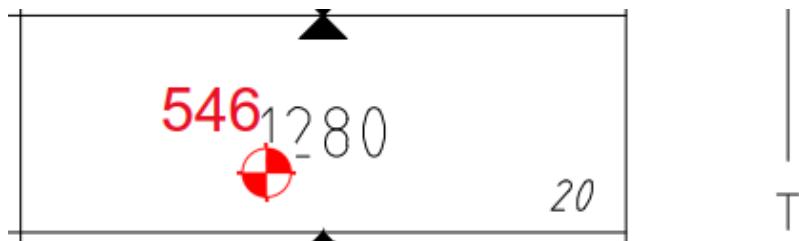
In our opinion all fill on Lot 1279 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1280**



**Field Density Results**

**Page 1 of 1**

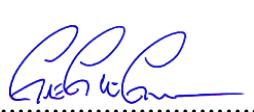
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

546 (14538)      12.09.18      o/s 10m Rear bdy, o/s 3m Left bdy. R.L.7.82.      101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

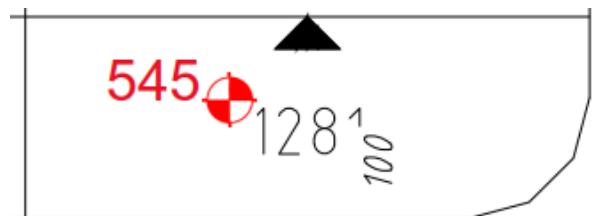
In our opinion all fill on Lot 1280 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1281**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

545 (14537)      12.09.18      o/s 15m Front bdy, o/s 3m Right bdy. R.L.7.90.      99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

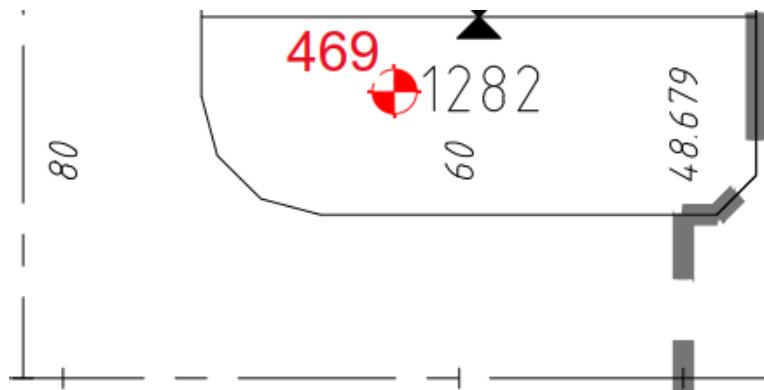
In our opinion all fill on Lot 1281 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1282**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

469 (14158)	14.08.18	o/s 8m Front bdy, o/s 3m Left bdy. R.L.7.69.	97.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

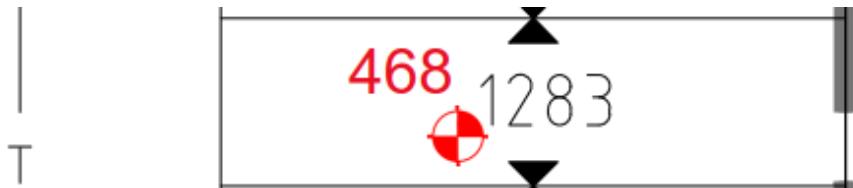
In our opinion all fill on Lot 1282 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1283**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

468 (14157)      14.08.18      o/s 10m Front bdy, o/s 3m Right bdy. R.L.7.59.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

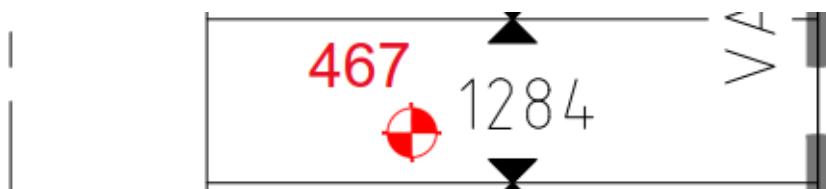
In our opinion all fill on Lot 1283 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1284**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

467 (14156)      14.08.18      o/s 12m Front bdy, o/s 2m Right bdy. R.L.7.50.      95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1284 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1285**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

466 (14155)      14.08.18      o/s 9m Front bdy, o/s 4m Left bdy. R.L.7.40.      95.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

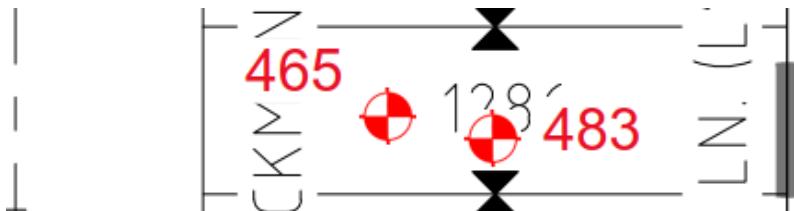
In our opinion all fill on Lot 1285 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1286**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

465 (14154)	18.08.18	o/s 8m Front bdy, o/s 3m Right bdy. R.L.7.26.	92.0
483 (14246)	20.08.18	o/s 10m Front bdy, o/s 2m Right bdy. R.L.7.24. Retest	101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

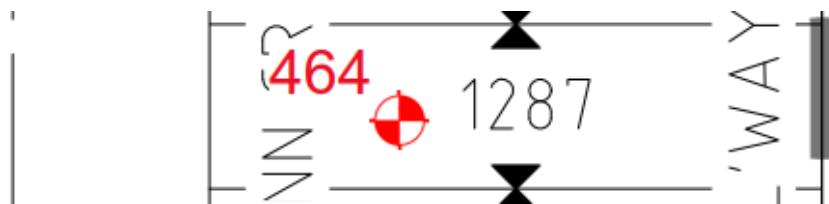
In our opinion all fill on Lot 1286 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1287**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

464 (14153)      14.08.18      o/s 9m Front bdy, o/s 2m Right bdy. R.L.7.19.      99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

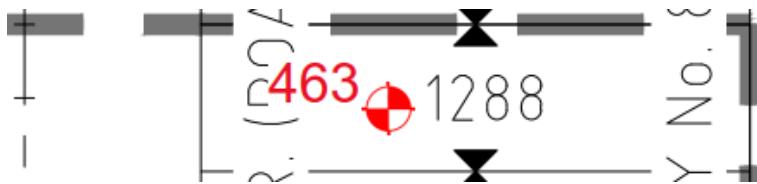
In our opinion all fill on Lot 1287 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1288**



**Field Density Results**

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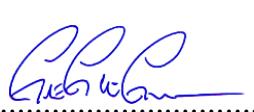
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

463 (14152)	14.08.18	o/s 7m Front bdy, o/s 3m Left bdy. R.L.7.10.	98.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

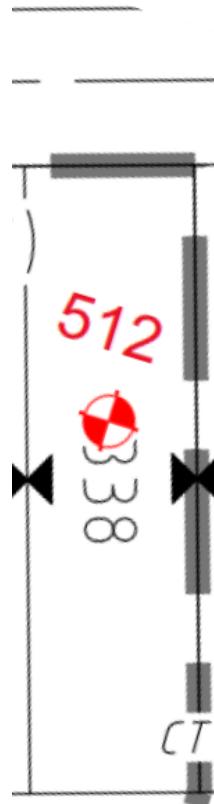
In our opinion all fill on Lot 1288 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1338**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

512 (14371)	30.08.18	o/s 12m Front bdy, o/s 4m Right bdy. R.L.7.18.	97.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

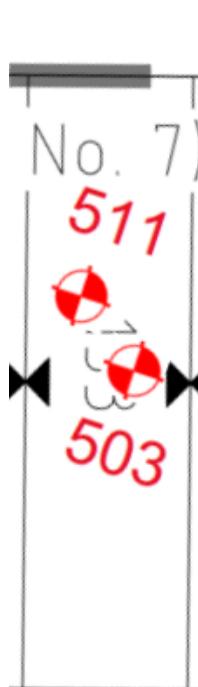
In our opinion all fill on Lot 1338 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1339**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

503 (14332)	28.08.18	o/s 11m Front bdy, o/s 3m Left bdy. R.L.6.58.	101.5
511 (14370)	30.08.18	o/s 8m Front bdy, o/s 2m Right bdy. R.L.7.29.	103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

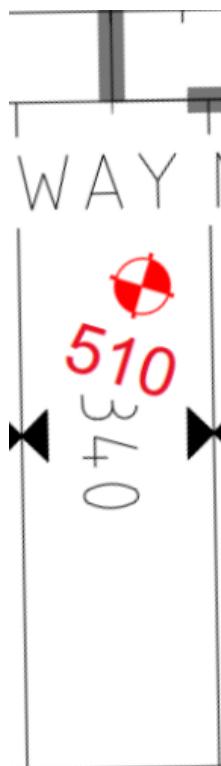
In our opinion all fill on Lot 1339 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



**Brisbane Soil Testing**  
20/1191 Anzac Ave  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1340**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

510 (14369)	30.08.18	o/s 5m Front bdy, o/s 2m Left bdy. R.L.7.40.	102.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

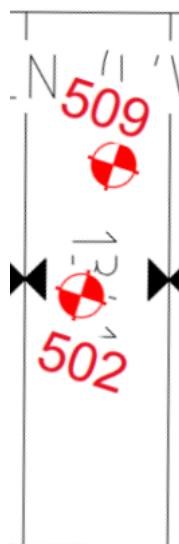
In our opinion all fill on Lot 1340 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1341**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&amp;12)</b>			
502 (14331)	28.08.18	o/s 9m Front bdy, o/s 2m Right bdy. R.L.6.67.	101.5
509 (14368)	30.08.18	o/s 7m Front bdy, o/s 1m Left bdy. R.L.7.44.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

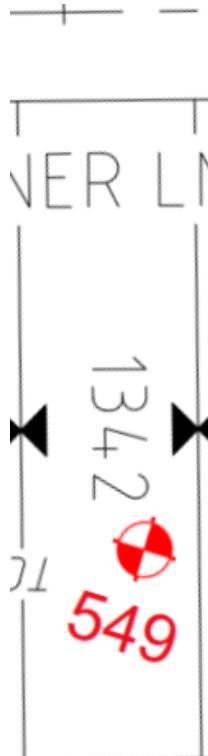
In our opinion all fill on Lot 1341 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1342**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

549 (14565)      13.09.18      o/s 11m Rear bdy, o/s 3m Left bdy. R.L.7.47.      97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

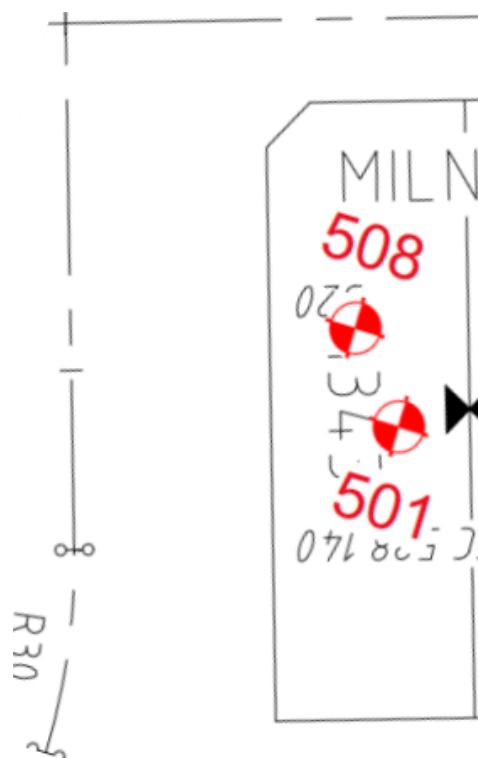
In our opinion all fill on Lot 1342 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



**Brisbane Soil Testing**  
20/1191 Anzac Ave  
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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1343**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

501 (14330)	28.08.18	o/s 14m Front bdy, o/s 3m Left bdy. R.L.7.03.	102.0
508 (14367)	30.08.18	o/s 6m Front bdy, o/s 2m Right bdy. R.L.7.61.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

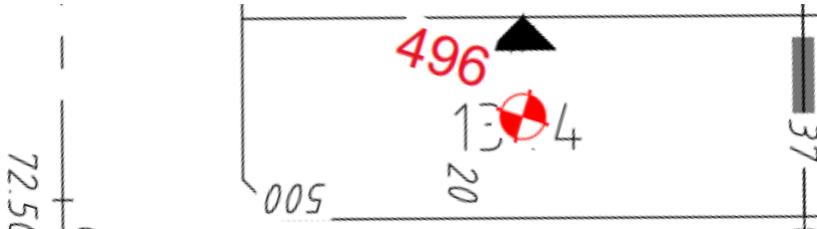
In our opinion all fill on Lot 1343 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1344**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

496 (14290)      23.08.18      o/s 13m Front bdy, o/s 3m Left bdy. R.L.7.92.      95.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

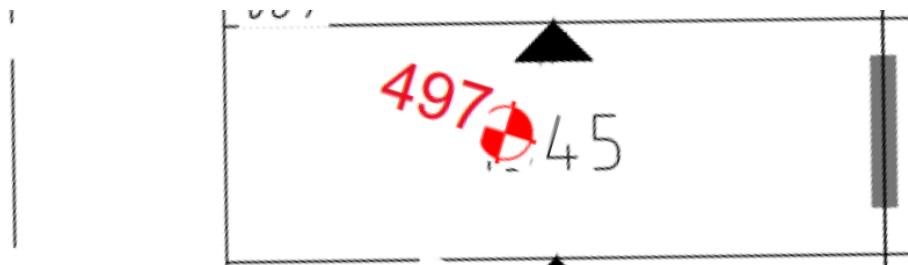
In our opinion all fill on Lot 1344 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1345**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

497 (14291)      23.08.18      o/s 9m Front bdy, o/s 2m Right bdy. R.L.7.88.      95.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1345 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1346**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

498 (14292)	23.08.18	o/s 11m Rear bdy, o/s 2m Left bdy. R.L.7.93	97.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

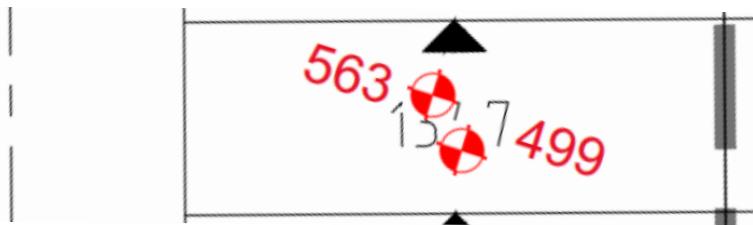
In our opinion all fill on Lot 1346 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1347**



**Field Density Results**

**Page 1 of 1**

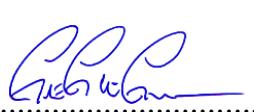
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

499 (14293)	23.08.18	o/s 14m Front bdy, o/s 3m Right bdy. R.L.7.86.	90.0
563 (14805)	03.10.18	o/s 11m Front bdy, o/s 3m Right bdy. R.L.7.81. Retest	103.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

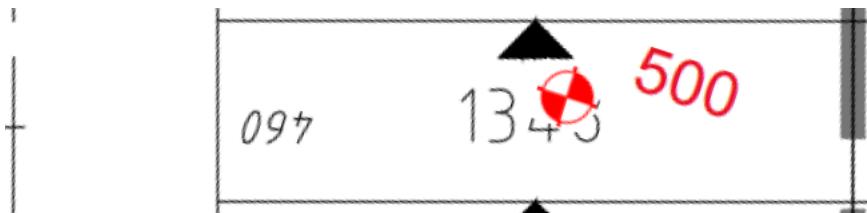
In our opinion all fill on Lot 1347 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1348**



**Field Density Results**

**Page 1 of 1**

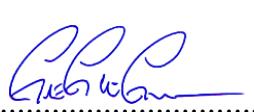
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

500 (14294)      23.08.18      o/s 13m Rear bdy, o/s 2m Left bdy. R.L.7.96.      95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

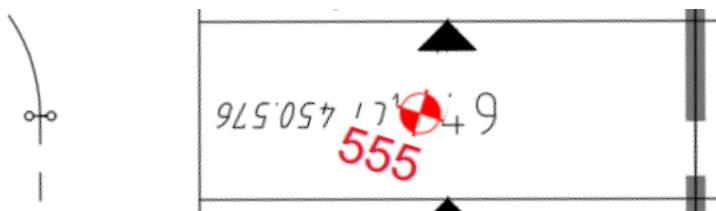
In our opinion all fill on Lot 1348 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1349**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

555 (14573)      13.09.18      o/s 11m Front bdy, o/s 4m Left bdy. R.L.8.10.      97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

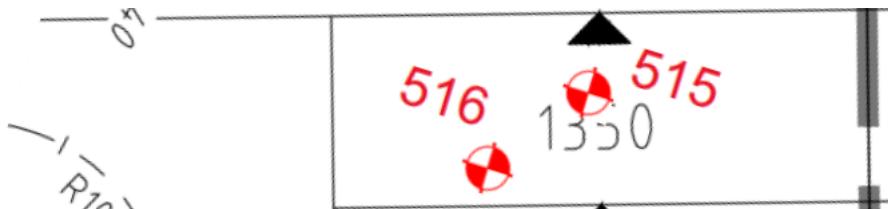
In our opinion all fill on Lot 1349 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1350**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

515 (14395)	31.08.18	o/s 12m Rear bdy, o/s 4m Left bdy. R.L.7.71.	98.0
516 (14396)	31.08.18	o/s 9m Front bdy, o/s 2m Right bdy. R.L.8.19.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

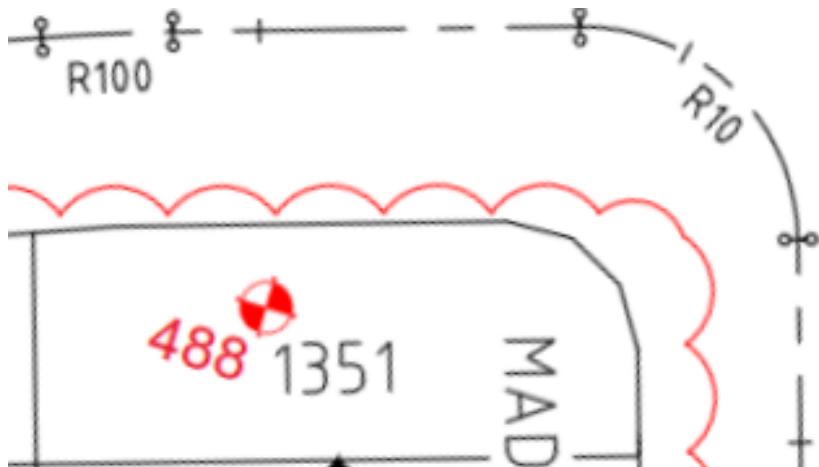
In our opinion all fill on Lot 1350 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1351**



**Field Density Results**

**Page 1 of 1**

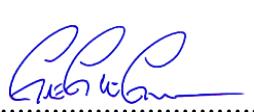
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

488 (14252)      21.08.18      o/s 12m Rear bdy, o/s 3m Right bdy. R.L.8.07.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

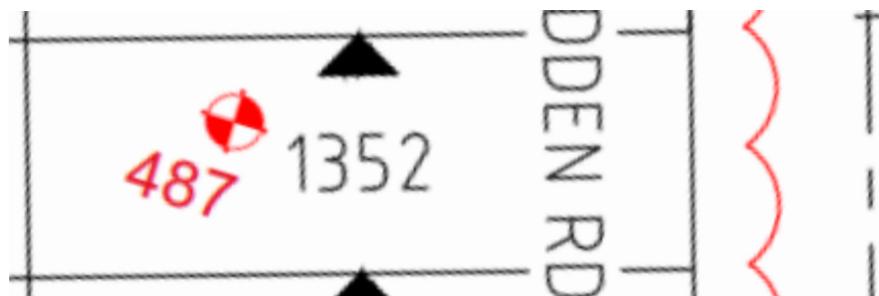
In our opinion all fill on Lot 1351 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1352**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

487 (14251)      21.08.18      o/s 9m Rear bdy, o/s 2m Right bdy. R.L.8.13.      99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

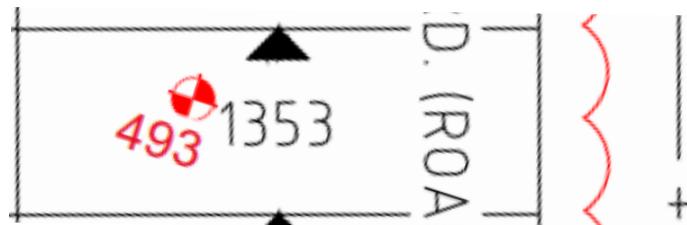
In our opinion all fill on Lot 1352 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1353**



**Field Density Results**

**Page 1 of 1**

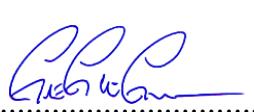
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

493 (14278)      22.08.18      o/s 14m Front bdy, o/s 3m Right bdy. R.L.8.06.      100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

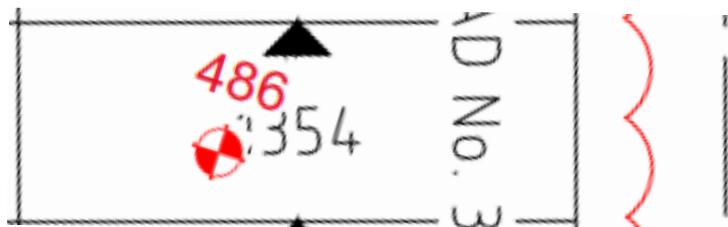
In our opinion all fill on Lot 1353 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1354**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

486 (14250)	21.08.18	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.8.09.	100.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1354 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1355**



**Field Density Results**

**Page 1 of 1**

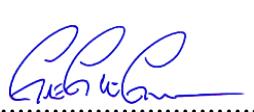
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

485 (14249)      21.08.18      o/s 11m Rear bdy, o/s 5m Left bdy. R.L.8.10.      95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

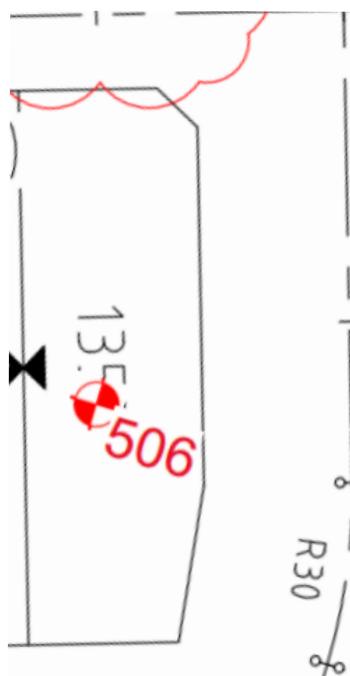
In our opinion all fill on Lot 1355 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1357**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

506 (14365)	30.08.18	o/s 12m Front bdy, o/s 2m Rear bdy. R.L.7.68.	96.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

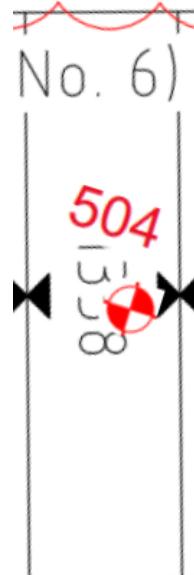
In our opinion all fill on Lot 1357 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1358**



**Field Density Results**

**Page 1 of 1**

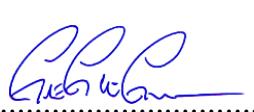
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

504 (14363)      30.08.18      o/s 10m Front bdy, o/s 2m Left bdy. R.L.7.72.      96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

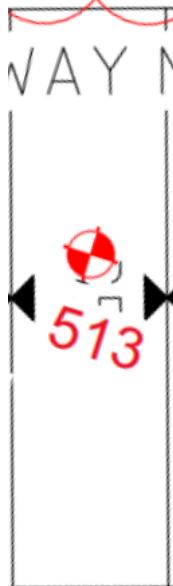
In our opinion all fill on Lot 1358 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1359**



**Field Density Results**

**Page 1 of 1**

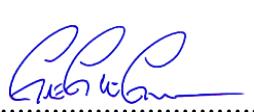
<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

513 (14372)      30.08.18      o/s 8m Front bdy, o/s 2m Right bdy. R.L.7.78.      100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

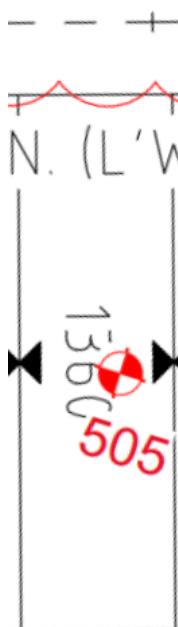
In our opinion all fill on Lot 1359 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1360**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

505 (14364)	30.08.18	o/s 11m Front bdy, o/s 2m Left bdy. R.L.7.90.	96.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

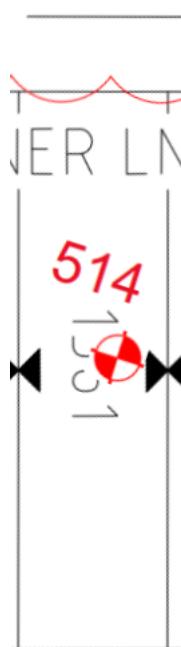
In our opinion all fill on Lot 1360 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1361**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

514 (14373)      30.08.18      o/s 11m Front bdy, o/s 2m Left bdy. R.L.8.20.      102.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

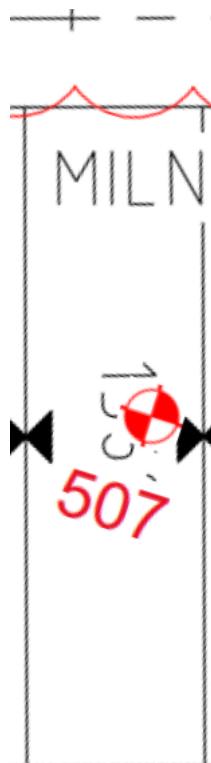
In our opinion all fill on Lot 1361 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1362**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

507 (14366)      30.08.18      o/s 10m Front bdy, o/s 2m Left bdy. R.L.8.43.      97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

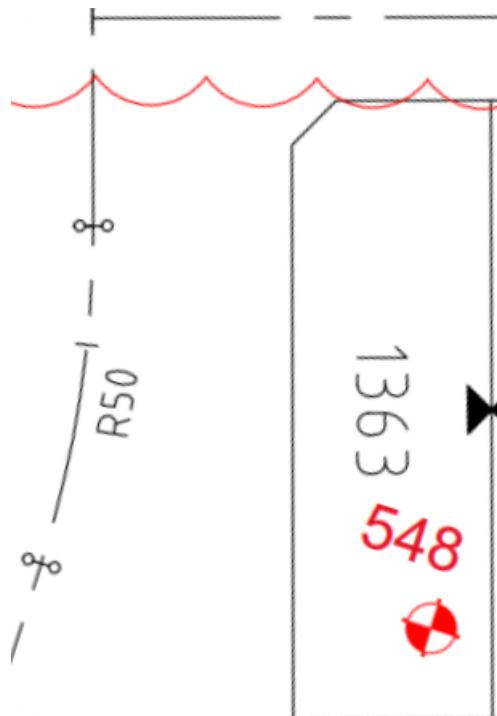
In our opinion all fill on Lot 1362 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1363**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

548 (14564)	13.09.18	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.8.57.	102.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

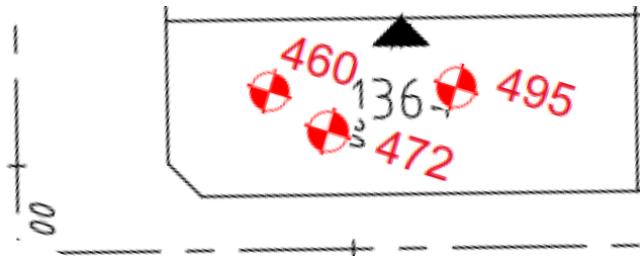
In our opinion all fill on Lot 1363 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 12B**  
**LOT 1364**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

460 (14120)	9.08.18	o/s 3m Front bdy, o/s 2m Left bdy. R.L.7.84.	100.0
472 (14161)	14.08.18	o/s 8m Front bdy, o/s 2m Right bdy. R.L.8.29.	98.0
495 (14280)	22.08.18	o/s 11m Rear bdy, o/s 5m Left bdy. R.L.8.77	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

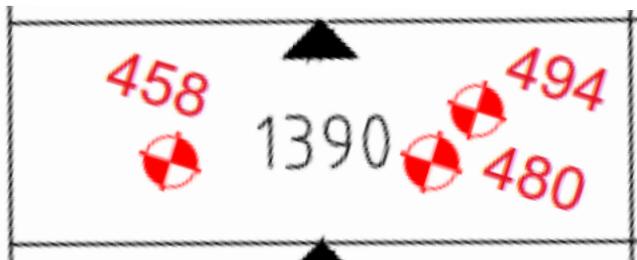
In our opinion all fill on Lot 1364 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1390**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

458 (14118)	9.08.18	o/s 3m Front bdy, o/s 4m Right bdy. R.L.7.70.	103.0
480 (14183)	15.08.18	o/s 9m Rear bdy, o/s 1m Right bdy. R.L.8.35.	102.5
494 (14279)	22.08.18	o/s 9m Rear bdy, o/s 4m Left bdy. R.L.8.84.	99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

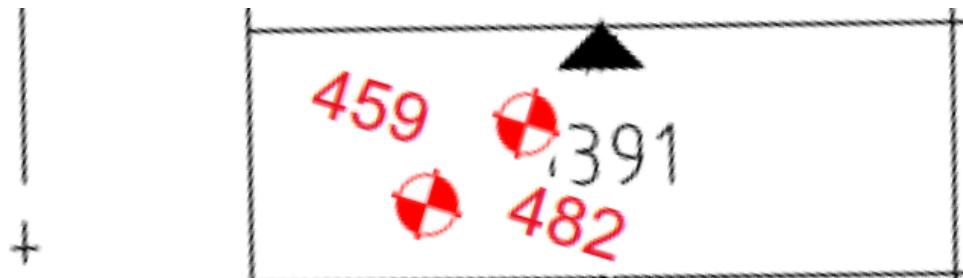
In our opinion all fill on Lot 1390 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1391**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

459 (14119)	9.08.18	o/s 4m Front bdy, o/s 2m Right bdy. R.L.8.01.	98.5
482 (14185)	15.08.18	o/s 8m Front bdy, o/s 4m Left bdy. R.L.8.70.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1391 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1392**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

457 (14117)	9.08.18	o/s 5m Front bdy, o/s 3m Left bdy. R.L.7.90.	99.0
479 (14182)	15.08.18	o/s 11m Rear bdy, o/s 3m Right bdy. R.L.8.49.	99.5
492 (14277)	22.08.18	o/s 10m Rear bdy, o/s 4m Left bdy. R.L.8.87.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

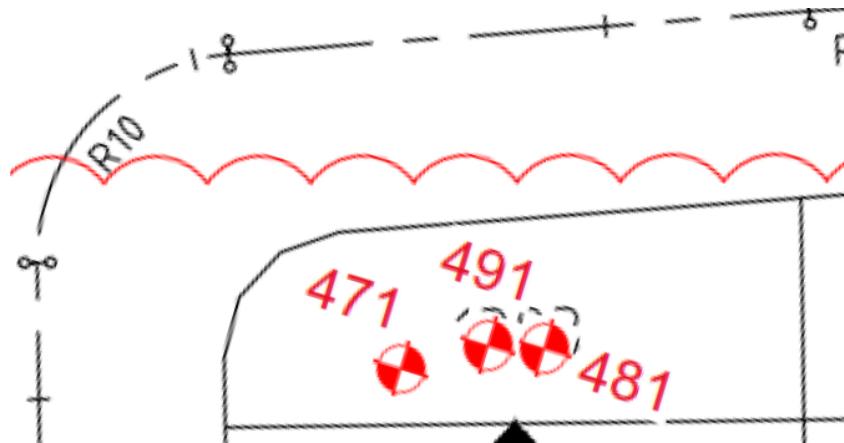
In our opinion all fill on Lot 1392 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 12B  
LOT 1393**



**Field Density Results**

**Page 1 of 1**

<b>Test No.</b>	<b>Date Tested</b>	<b>Test Location</b>	<b>Dry Density Ratio % AS1289 5.4.1 (Standard)</b>
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**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST11&12)**

471 (14160)	14.08.18	o/s 6m Front bdy, o/s 3m Right bdy. R.L.7.96.	99.0
481 (14184)	15.08.18	o/s 12m Front bdy, o/s 4m Right bdy. R.L.8.40.	102.5
491 (14276)	22.08.18	o/s 13m Rear bdy, o/s 6m Right bdy. R.L.8.83.	103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stages 11 & 12.

In our opinion all fill on Lot 1393 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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 Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33650
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/3/2014				<b>Tested by</b>	JM GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
1 84261	8.00	150	LOC ON ATT PLAN R.L.5.37	84261	- -	16.5	Adj. 18.5	2.0 DRY	89.0	1.77	Adj 1.72	103.0
Material Description: LIGHT BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
2 84262	8.00	150	LOC ON ATT PLAN R.L.5.19	84262	- -	14.0	Adj. 12.0	2.0 WET	116.5	1.85	Adj 1.91	97.0
Material Description: LIGHT BROWN SANDY CLAY.												
3 84263	8.30	150	LOC ON ATT PLAN R.L.5.57	84263	- -	16.0	Adj. 14.5	1.5 WET	110.5	1.80	Adj 1.88	95.5
Material Description: BROWN SILTY SANDY CLAY.												
4 84270	11.00	150	LOC ON ATT PLAN R.L.5.30	84270	- -	16.0	Adj. 18.0	2.0 DRY	89.0	1.76	Adj. 1.75	100.5
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
5 84271	12.00	150	LOC ON ATT PLAN R.L.5.67	84271	- -	15.5	Adj. 15.0	0.5 WET	103.5	1.78	Adj. 1.82	98.0
Material Description: RED-BROWN SILTY CLAY.												
6 84272	12.30	150	LOC ON ATT PLAN R.L.5.70	84272	- -	11.0	Adj. 14.0	3.0 DRY	78.5	1.88	Adj. 1.85	101.5
Material Description: DARK BROWN SILTY CLAY.												

Remarks: Reissue of report no. 33618.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 12.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33651
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/3/2014				<b>Tested by</b>	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
7 84273	13.00	150	LOC ON ATT PLAN R.L.5.64	84273	- -	14.5	Adj. 14.5	-	100.0	1.78	Adj 1.87	95.0
Material Description:DARK BROWN SILTY CLAY.												
							Adj.				Adj	
Material Description:												
							Adj.				Adj	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks: Reissue of report no.33619.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:12.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33652
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	25/3/2014				<b>Tested by</b>	RW GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
8 84294	8.00	150	LOC ON ATT PLAN R.L.5.39	84294	- -	18.0	Adj. 17.0	1.0 WET	106.5	1.77	1.77	100.0
					Material Description: RED-BROWN SILTY SANDY CLAY.							
9 84295	8.00	150	LOC ON ATT PLAN R.L.5.20	84295	- -	14.5	Adj. 16.0	1.5 DRY	90.5	1.81	1.80	100.5
					Material Description: RED-BROWN SILTY SANDY CLAY.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	

Remarks: Reissue of report no.33620.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 12.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

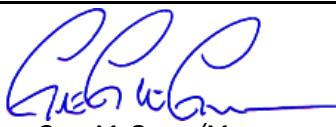
Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33641
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	1/4/2014				<b>Tested by</b>	RW AC JM GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
10 84301	8.00	150	LOC ON ATT PLAN R.L.5.09	84301	- -	15.5	Adj. 14.0	1.5 WET	110.5	1.82	1.86	98.0
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
11 84302	8.30	150	LOC ON ATT PLAN R.L.5.36	84302	- -	15.0	Adj. 14.5	0.5 WET	103.5	1.87	1.82	102.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
12 84303	8.30	150	LOC ON ATT PLAN R.L.4.84	84303	- -	13.0	Adj. 13.5	0.5 DRY	96.5	1.88	1.90	99.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
13 84304	8.30	150	LOC ON ATT PLAN R.L.4.77	84304	- -	18.0	Adj. 15.5	2.5 WET	116.0	1.73	1.82	95.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
14 84305	9.00	150	LOC ON ATT PLAN R.L.4.56	84305	- -	15.5	Adj. 14.0	1.5 WET	110.5	1.80	1.88	95.5
Material Description: LIGHT RED-BROWN SILTY CLAY.												
15 84306	9.30	150	LOC ON ATT PLAN R.L.4.93	84306	- -	19.0	Adj. 18.0	1.0 WET	105.5	1.76	1.73	101.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 12.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



## Brisbane Soil Testing

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# **FIELD DENSITY CERTIFICATE**

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS	<b>Report No.</b>	33642
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW	<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	1/4/2014	<b>Tested by</b>	JM AC

Field Test No Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %	
16 84307	9.30	150	LOC ON ATT PLAN R.L.5.28	84307	-	-	17.0	Adj. 15.5	1.5 WET	109.5	1.78	Adj 1.79	<b>99.5</b>
					Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.								
17 84308	9.30	150	LOC ON ATT PLAN R.L.5.35	84308	-	-	15.0	Adj. 12.5	2.5 WET	120.0	1.84	Adj 1.92	<b>96.0</b>
					Material Description: REDDISH-BROWN SILTY SANDY CLAY.								
								Adj.				Adj	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	

**Remarks:**

### Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:12.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN	R Me	



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33667
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	2/4/2014				<b>Tested by</b>	GMG AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
18 84315	7.30	150	LOC ON ATT PLAN R.L.4.23	84315	- -	19.5	Adj. 17.0	2.5 WET	114.5	1.75	1.78	Adj 98.5
Material Description: LIGHT BROWN GRAVELLY SILTY CLAY.												
19 84316	8.00	150	LOC ON ATT PLAN R.L.4.69	84316	- -	9.0	Adj. 10.5	1.5 DRY	85.5	1.93	2.01	Adj 96.0
Material Description: DARK BROWN SILTY CLAY.												
20 84317	8.30	150	LOC ON ATT PLAN R.L.4.76	84317	- -	20.0	Adj. 20.0	-	100.0	1.67	1.69	Adj 99.0
Material Description: DARK BROWN MOTTLED GREY CLAY.												
21 84318	8.30	150	LOC ON ATT PLAN R.L.6.19	84318	- -	21.0	Adj. 21.0	-	100.0	1.64	1.67	Adj. 98.0
Material Description: LIGHT BROWN SILTY CLAY.												
22 84319	9.00	150	LOC ON ATT PLAN R.L.6.27	84319	- -	12.5	Adj. 13.0	0.5 DRY	96.0	1.87	1.93	Adj. 97.0
Material Description: RED-BROWN SILTY SANDY CLAY.												
23 84320	9.00	150	LOC ON ATT PLAN R.L.6.10	84320	- -	11.5	Adj. 13.5	2.0 DRY	85.0	1.82	1.89	Adj. 96.5
Material Description: DARK BROWN SILTY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 15.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33668
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	2/4/2014				<b>Tested by</b>	AC JM GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
24 94321	9.30	150	LOC ON ATT PLAN R.L.3.49	84321	- -	12.0	Adj. 10.5	1.5 WET	114.5	1.98	1.99	99.5
Material Description:DARK BROWN SILTY CLAY.												
25 84322	9.30	150	LOC ON ATT PLAN R.L.3.70	84322	- -	14.0	Adj. 13.0	1.0 WET	107.5	1.86	1.90	98.0
Material Description:DARK BROWN SILTY CLAY.												
26 84323	10.30	150	LOC ON ATT PLAN R.L.4.16	84323	- -	12.5	Adj. 13.0	0.5 DRY	96.0	1.92	1.92	100.0
Material Description:DARK BROWN SILTY CLAY.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:15.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

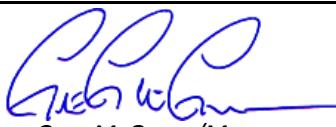
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33669
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	3/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
27 84385	8.00	150	LOC ON ATT PLAN R.L.4.04	84385	- -	18.0	Adj. 15.5	2.5 WET	116.0	1.76	1.83	Adj 96.0
					Material Description: GREY-BROWN GRAVELLY CLAY.							
28 84386	8.30	150	LOC ON ATT PLAN R.L.4.33	84386	- -	17.0	Adj. 16.0	1.0 WET	106.5	1.77	1.84	Adj 96.0
					Material Description: LIGHT BROWN SILTY SANDY CLAY.							
29 84387	9.00	150	LOC ON ATT PLAN R.L.5.87	84387	- -	14.5	Adj. 15.5	1.0 DRY	93.5	1.75	1.82	Adj 96.0
					Material Description: LIGHT RED-BROWN SILTY CLAY.							
30 84388	9.30	150	LOC ON ATT PLAN R.L.5.40	84388	- -	18.5	Adj. 17.0	1.5 WET	109.0	1.71	1.74	Adj. 98.5
					Material Description: RED MOTTLED GREY SILTY CLAY.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 15.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN 		



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33670
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	4/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
31 84395	8.00	150	LOC ON ATT PLAN R.L.3.54	84395	- -	14.0	Adj. 15.0	1.0 DRY	93.5	1.75	1.81	Adj 96.5
Material Description: LIGHT RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
32 84396	8.30	150	LOC ON ATT PLAN R.L.3.17	84396	- -	16.0	Adj. 18.0	2.0 DRY	89.0	1.75	1.75	Adj 100.0
Material Description: LIGHT RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
33 84397	9.00	150	LOC ON ATT PLAN R.L.3.61	84397	- -	14.5	Adj. 16.5	2.0 DRY	88.0	1.78	1.80	Adj 99.0
Material Description: LIGHT RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
34 84398	9.30	150	LOC ON ATT PLAN R.L.3.75	84398	- -	13.5	Adj. 14.5	1.0 DRY	93.0	1.80	1.83	Adj. 98.5
Material Description: BROWN, SOME GREY SILTY GRAVELLY CLAY.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 16.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33671
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE – STAGE 6	<b>Date Tested</b>	5/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
35 84399	9.00	150	LOC ON ATT PLAN R.L.3.53	84399	- -	17.5	Adj. 15.5	2.0 WET	113.0	1.71	1.77	Adj 96.5
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
36 84400	9.30	150	LOC ON ATT PLAN R.L.3.30	84400	- -	15.0	Adj. 14.0	1.0 WET	107.0	1.75	1.81	Adj 96.5
Material Description: BROWN SILTY SANDY CLAY.												
37 84401	10.00	150	LOC ON ATT PLAN R.L.3.04	84401	- -	14.0	Adj. 16.0	2.0 DRY	87.5	1.75	1.76	Adj 99.5
Material Description: BROWN MOTTLED GREY SILTY CLAY.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 16.5.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
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 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33779
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	8/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
38 84421	7.30	150	LOC ON ATT PLAN R.L.2.91	84421	- -	18.0	Adj. 17.0	1.0 WET	106.0	1.70	1.76	Adj 96.5
Material Description: RED-BROWN SILTY GRAVELLY CLAY.												
39 84422	8.00	150	LOC ON ATT PLAN R.L.3.12	84422	- -	15.5	Adj. 18.0	2.5 DRY	86.0	1.70	1.74	Adj 97.5
Material Description: DARK BROWN MOTTLED WHITE SILTY CLAY.												
40 84423	8.30	150	LOC ON ATT PLAN R.L.3.40	84423	- -	17.5	Adj. 19.5	2.0 DRY	89.5	1.73	1.72	Adj 100.5
Material Description: BROWN SILTY CLAY.												
41 84424	9.00	150	LOC ON ATT PLAN R.L.3.44	84424	- -	16.0	Adj. 16.0	-	100.0	1.77	1.79	Adj. 99.0
Material Description: BROWN SILTY CLAY.												
							Adj.				Adj.	
Material Description:												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 2.6.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33785
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	9/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
42 84467	8.00	150	LOC ON ATT PLAN R.L.6.38	84467	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.80	1.76	Adj 102.5
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
43 84468	8.30	150	LOC ON ATT PLAN R.L.6.57	84468	- -	15.5	Adj. 18.0	2.5 DRY	86.0	1.78	1.80	Adj 99.0
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
44 84469	9.00	150	LOC ON ATT PLAN R.L.5.69	84469	- -	15.0	Adj. 16.0	1.0 DRY	94.0	1.75	1.77	Adj 99.0
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
45 84470	9.30	150	LOC ON ATT PLAN R.L.5.88	84470	- -	22.0	Adj. 22.5	0.5 DRY	98.0	1.62	1.67	Adj. 97.0
Material Description: RED MOTTLED GREY CLAY.												
46 84471	10.00	150	LOC ON ATT PLAN R.L.4.08	84471	- -	16.0	Adj. 19.0	3.0 DRY	84.0	1.66	1.73	Adj. 96.0
Material Description: BROWN SOME GREY SILTY SILTY CLAY.												
							Adj.					Adj.
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 3.6.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
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## FIELD DENSITY CERTIFICATE

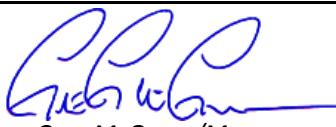
Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	33786
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	10/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
47 84563	8.00	150	LOC ON ATT PLAN R.L.3.94	84563	- -	16.0	Adj. 18.0	2.0 DRY	89.0	1.68	1.73	Adj 97.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
48 84564	8.30	150	LOC ON ATT PLAN R.L.4.22	84564	- -	14.0	Adj. 15.0	1.0 DRY	93.5	1.72	1.79	Adj 96.0
Material Description: GREY-BROWN SILTY CLAY.												
49 84565	9.00	150	LOC ON ATT PLAN R.L.4.31	84565	- -	14.5	Adj. 15.5	1.0 DRY	93.5	1.72	1.77	Adj 97.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
50 84566	9.30	150	LOC ON ATT PLAN R.L.4.03	84566	- -	16.5	Adj. 19.0	2.5 DRY	87.0	1.71	1.72	Adj. 99.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 3.6.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

76 Groth Road  
Boondall, Q. 4034  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34110
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	11/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
51 84567	8.00	150	LOC ON ATT PLAN R.L.4.85	84567	- -	15.5	Adj. 18.0	2.5 DRY	86.0	1.81	1.74	104.0
					Material Description: LIGHT BROWN SILTY CLAY.							
52 84568	8.30	150	LOC ON ATT PLAN R.L.4.45	84568	- -	16.5	Adj. 18.5	2.0 DRY	89.0	1.73	1.77	102.5
					Material Description: RED-BROWN SILTY CLAY.							
53 84569	9.00	150	LOC ON ATT PLAN R.L.5.03	84569	- -	17.0	Adj. 14.0	3.0 WET	121.0	1.77	1.83	96.5
					Material Description: LIGHT BROWN SILTY SANDY CLAY.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34111
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	12/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
54 84570	9.00	150	LOC ON ATT PLAN R.L.7.79	84570	- -	14.0	Adj. 17.0	3.0 DRY	82.5	1.83	1.79	Adj 102.0
Material Description:RED-SILTY SANDY GRAVELLY CLAY.												
55 84571	9.30	150	LOC ON ATT PLAN R.L.7.86	84571	- -	14.5	Adj. 16.0	1.5 DRY	90.5	1.77	1.79	Adj 99.0
Material Description:GREY-BROWN SILTY GRAVELLY CLAY.												
56 84572	10.00	150	LOC ON ATT PLAN R.L.7.93	84572	- -	16.0	Adj. 17.5	1.5 DRY	91.5	1.77	1.75	Adj 101.0
Material Description:GREY-BROWN SILTY GRAVELLY CLAY.												
57 84573	10.30	150	LOC ON ATT PLAN R.L.4.80	84573	- -	16.0	Adj. 16.5	0.5 DRY	97.0	1.78	1.80	Adj. 99.0
Material Description:GREY-BROWN SILTY GRAVELLY CLAY.												
							Adj.				Adj.	
Material Description:												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

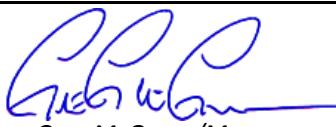
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34112
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	16/4/2014				<b>Tested by</b>	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
58 84575	8.00	150	LOC ON ATT PLAN R.L.6.27	84575	- -	15.5	Adj. 15.5	-	100.0	1.87	1.84	101.5
Material Description: RED SILTY GRAVELLY CLAY.												
59 84576	8.00	150	LOC ON ATT PLAN R.L.6.08	84576	- -	17.5	Adj. 17.5	-	100.0	1.72	1.80	95.5
Material Description: RED-BROWN & GREY SILTY GRAVELLY CLAY.												
60 84577	8.30	150	LOC ON ATT PLAN R.L.6.82	84577	- -	15.0	Adj. 16.5	1.5 DRY	91.0	1.72	1.80	95.5
Material Description: RED-BROWN & GREY SILTY GRAVELLY CLAY.												
61 84578	8.30	150	LOC ON ATT PLAN R.L.8.04	84578	- -	19.0	Adj. 17.5	1.5 WET	108.5	1.73	1.79	96.5
Material Description: LIGHT BROWN SILTY GRAVELLY CLAY.												
62 84579	9.00	150	LOC ON ATT PLAN R.L.8.30	84579	- -	16.0	Adj. 15.0	1.0 WET	106.5	1.86	1.86	100.0
Material Description: DARK BROWN SILTY CLAY.												
63 84580	9.00	150	LOC ON ATT PLAN R.L.8.65	84580	- -	16.5	Adj. 17.0	0.5 DRY	97.0	1.75	1.81	96.5
Material Description: RED-BROWN SILTY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34113
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	16/4/2014				<b>Tested by</b>	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
64 84581	9.30	150	LOC ON ATT PLAN R.L.6.19	84581	- -	15.5	Adj. 15.5	-	100.0	1.75	1.82	96.0
					Material Description: RED-BROWN SILTY GRAVELLY CLAY.							
65 84582	9.30	150	LOC ON ATT PLAN R.L.6.65	84582	- -	14.5	Adj. 16.5	2.0 DRY	88.0	1.81	1.82	99.5
					Material Description: RED-BROWN SILTY GRAVELLY CLAY.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34114
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	22/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
66 84704	9.00	150	LOC ON ATT PLAN R.L.6.04	84704	- -	15.0	Adj. 16.0	1.0 DRY	94.0	1.81	1.78	101.5
					Material Description: GREY-BROWN SILTY CLAY.							
67 84705	9.30	150	LOC ON ATT PLAN R.L.6.29	84705	- -	16.5	Adj. 15.5	1.0 WET	106.5	1.77	1.80	98.5
					Material Description: RED-BROWN & GREY SILTY GRAVELLY CLAY.							
							Adj.				Adj	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34115
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	23/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
68 84706	9.00	150	LOC ON ATT PLAN R.L.6.47	84706	- -	16.0	Adj. 16.0	-	100.0	1.76	1.79	Adj 98.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
69 84707	9.30	150	LOC ON ATT PLAN R.L.6.71	84707	- -	17.0	Adj. 16.5	0.5 WET	103.0	1.82	1.78	Adj 102.0
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.												
70 84708	10.00	150	LOC ON ATT PLAN R.L.6.09	84708	- -	15.0	Adj. 14.0	1.0 WET	107.0	1.82	1.87	Adj 97.5
Material Description: BROWN SILTY GRAVELLY CLAY.												
71 84709	10.30	150	LOC ON ATT PLAN R.L.6.93	84709	- -	15.5	Adj. 16.0	1.0 DRY	97.0	1.83	1.80	Adj. 101.5
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.												
							Adj.					Adj.
					Material Description:							
							Adj.					Adj.
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34116
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/4/2014				<b>Tested by</b>	GMG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
72 84710	8.00	150	LOC ON ATT PLAN R.L.4.39	84710	- -	17.5	Adj. 16.0	1.5 WET	109.5	1.84	1.80	102.0
Material Description: LIGHT BROWN SILTY GRAVELLY CLAY.												
73 84711	8.30	150	LOC ON ATT PLAN R.L.3.78	84711	- -	16.0	Adj. 17.5	1.5 DRY	91.5	1.74	1.76	99.0
Material Description: BROWN SILTY GRAVELLY CLAY.												
74 84712	8.30	150	LOC ON ATT PLAN R.L.4.67	84712	- -	16.5	Adj. 15.5	1.0 WET	106.5	1.90	1.80	105.5
Material Description: DARK BROWN SILTY CLAY.												
75 84713	9.00	150	LOC ON ATT PLAN R.L.4.95	84713	- -	14.5	Adj. 15.5	1.0 DRY	93.5	1.82	1.81	100.5
Material Description: LIGHT BROWN SILTY GRAVELLY CLAY.												
76 84714	9.30	150	LOC ON ATT PLAN R.L.2.37	84714	- -	15.0	Adj. 16.5	1.5 DRY	91.0	1.83	1.79	102.0
Material Description: GREY-BROWN SILTY GRAVELLY CLAY.												
77 84715	9.30	150	LOC ON ATT PLAN R.L.3.49	84715	- -	15.0	Adj. 13.5	1.5 WET	111.0	1.82	1.84	99.0
Material Description: BROWN SILTY SANDY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34117
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
78 84716	10.00	150	LOC ON ATT PLAN R.L.3.60	84716	- -	16.0	Adj. 17.0	1.0 DRY	94.0	1.79	1.78	100.5
Material Description: LIGHT BROWN SILTY GRAVELLY CLAY.												
							Adj.				Adj	
Material Description:												
							Adj.				Adj	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

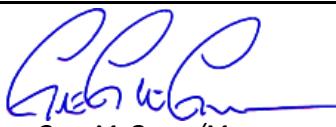
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34118
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	29/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
79 84811	8.00	150	LOC ON ATT PLAN R.L.4.11	84811	- -	14.5	Adj. 16.0	1.5 DRY	90.5	1.79	1.76	Adj 101.5
					Material Description:BROWN SILTY GRAVELLY CLAY.							
80 84812	8.30	150	LOC ON ATT PLAN R.L.2.90	84812	- -	16.0	Adj. 17.0	1.0 DRY	94.0	1.76	1.79	Adj 98.5
					Material Description:GREY-BROWN SILTY GRAVELLY CLAY.							
81 84813	9.00	150	LOC ON ATT PLAN R.L.2.99	84813	- -	17.0	Adj. 16.5	0.5 WET	103.0	1.80	1.76	Adj 102.5
					Material Description:GREY-BROWN SILTY GRAVELLY CLAY.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

76 Groth Road  
Boondall, Q. 4034  
Ph.(07) 38658933 Fax.(07)  
Ph.(07) 32652033 Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34119
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	30/4/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
82 84814	7.30	150	LOC ON ATT PLAN R.L.5.04	84814	- -	14.0	Adj. 15.5	1.5 DRY	90.5	1.81	1.80	Adj 100.5
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.												
83 84815	8.00	150	LOC ON ATT PLAN R.L.5.17	84815	- -	15.5	Adj. 15.0	0.5 WET	103.5	1.79	1.82	Adj 98.5
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.												
84 84816	8.30	150	LOC ON ATT PLAN R.L.5.46	84816	- -	16.0	Adj. 17.0	1.0 DRY	94.0	1.76	1.77	Adj 99.5
Material Description: BROWN SILTY CLAY.												
85 84817	9.00	150	LOC ON ATT PLAN R.L.2.56	84817	- -	16.5	Adj. 15.5	1.0 WET	106.5	1.78	1.82	Adj. 98.0
Material Description: DARK BROWN SILTY CLAY.												
86 84818	9.30	150	LOC ON ATT PLAN R.L.3.30	84818	- -	16.0	Adj. 16.0	-	100.0	1.78	1.83	Adj. 97.5
Material Description: RED-BROWN SILTY CLAY.												
87 84819	10.00	150	LOC ON ATT PLAN R.L.2.89	84819	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.74	1.82	Adj. 95.5
Material Description: RED-BROWN SILTY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

76 Groth Road  
Boondall, Q. 4034  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34120
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	1/5/2014				<b>Tested by</b>	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
88 84822	8.30	150	LOC ON ATT PLAN R.L.3.40	84822	- -	15.0	Adj. 17.0	2.0 DRY	88.0	1.76	1.77	Adj 99.5
Material Description: RED SILTY SANDY CLAY.												
89 84823	9.00	150	LOC ON ATT PLAN R.L.3.17	84823	- -	16.5	Adj. 18.5	2.0 DRY	89.0	1.66	1.71	Adj 97.0
Material Description: LIGHT BROWN SILTY CLAY.												
90 84824	9.30	150	LOC ON ATT PLAN R.L.3.75	84824	- -	15.0	Adj. 18.0	3.0 DRY	83.5	1.77	1.75	Adj 101.0
Material Description: RED SILTY SANDY CLAY.												
91 84825	10.00	150	LOC ON ATT PLAN R.L.4.35	84825	- -	17.0	Adj. 17.5	0.5 DRY	97.0	1.74	1.80	Adj. 96.5
Material Description: RED-BROWN SILTY CLAY.												
92 84826	10.30	150	LOC ON ATT PLAN R.L.4.41	84826	- -	16.0	Adj. 16.0	-	100.0	1.78	1.83	Adj. 97.5
Material Description: RED-BROWN SILTY CLAY.												
93 84827	11.00	150	LOC ON ATT PLAN R.L.4.80	84827	- -	18.0	Adj. 20.0	2.0 DRY	90.0	1.74	1.71	Adj. 102.0
Material Description: RED-BROWN SILTY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



**Brisbane Soil Testing**  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34121
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	5/5/2014				<b>Tested by</b>	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
94 84833	9.00	150	LOC ON ATT PLAN R.L.3.90	84833	- -	15.5	Adj. 17.0	1.5 DRY	91.0	1.79	1.76	101.5
Material Description: RED-BROWN & GREY SILTY CLAY & ROCK FRAGMENTS.												
95 84834	9.30	150	LOC ON ATT PLAN R.L.4.10	84834	- -	16.5	Adj. 19.5	3.0 DRY	84.5	1.63	1.69	96.5
Material Description: RED-BROWN & GREY SILTY CLAY & ROCK FRAGMENTS.												
96 84835	10.00	150	LOC ON ATT PLAN R.L.3.86	84835	- -	15.5	Adj. 17.0	1.5 DRY	91.0	1.78	1.80	99.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
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Connemar Pty. Ltd.  
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 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34129
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	6/5/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
97 84885	8.00	150	LOC ON ATT PLAN R.L.3.64	84885	- -	12.5	Adj. 14.0	1.5 DRY	89.5	1.85	1.86	Adj 99.5
Material Description: RED MOTTLED WHITE SILTY SANDY CLAY.												
98 84886	8.30	150	LOC ON ATT PLAN R.L.4.13	84886	- -	15.0	Adj. 17.5	2.5 DRY	85.5	1.76	1.77	Adj 99.5
Material Description: RED-BROWN SILTY CLAY.												
99 84887	9.00	150	LOC ON ATT PLAN R.L.4.27	84887	- -	16.5	Adj. 15.0	1.5 WET	110.0	1.80	1.86	Adj 97.0
Material Description: RED SILTY GRAVELLY CLAY.												
100 84888	9.30	150	LOC ON ATT PLAN R.L.4.63	84888	- -	18.0	Adj. 17.0	1.0 WET	106.0	1.86	1.77	Adj. 105.0
Material Description: RED SILTY GRAVELLY CLAY.												
101 84889	10.00	150	LOC ON ATT PLAN R.L.3.93	84889	- -	12.5	Adj. 16.0	3.5 DRY	78.0	1.84	1.84	Adj. 100.0
Material Description: RED SILTY GRAVELLY CLAY.												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 21.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

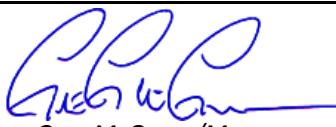
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34130
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	7/5/2014				<b>Tested by</b>	GMG JM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
102 84962	7.30	150	LOC ON ATT PLAN R.L.4.59	84962	- -	16.5	Adj. 17.0	0.5 DRY	97.0	1.74	1.72	101.0
Material Description: LIGHT BROWN SILTY CLAY.												
103 84963	8.00	150	LOC ON ATT PLAN R.L.4.90	84963	- -	17.5	Adj. 16.0	1.5 WET	109.5	1.84	1.87	98.5
Material Description: LIGHT BROWN SILTY CLAY.												
104 84964	8.00	150	LOC ON ATT PLAN R.L.4.81	84964	- -	14.0	Adj. 14.0	-	100.0	1.84	1.87	98.5
Material Description: RED-BROWN SILTY SANDY CLAY.												
105 84965	8.30	150	LOC ON ATT PLAN R.L.4.76	84965	- -	15.0	Adj. 14.0	1.0 WET	107.0	1.83	1.84	99.5
Material Description: RED-BROWN SILTY SANDY CLAY.												
106 84966	8.30	150	LOC ON ATT PLAN R.L.4.48	84966	- -	16.0	Adj. 15.0	1.0 WET	106.5	1.81	1.85	98.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 21.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34131
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	8/5/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %	
107 84967	9.00	150	LOC ON ATT PLAN R.L.5.40	84967	- -	18.5	Adj. 18.0	0.5 WET	103.0	1.76	1.72	102.5	
					Material Description: GREY SILTY CLAY.								
108 84968	9.30	150	LOC ON ATT PLAN R.L.5.17	84968	- -	16.0	Adj. 16.5	0.5 DRY	97.0	1.77	1.80	98.5	
					Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.								
109 84969	10.00	150	LOC ON ATT PLAN R.L.5.38	84969	- -	14.5	Adj. 14.5	-	100.0	1.79	1.86	96.0	
					Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS.								
							Adj.				Adj.		
					Material Description:								
							Adj.				Adj.		
					Material Description:								
							Adj.				Adj.		
					Material Description:								

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 21.7.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



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## FIELD DENSITY CERTIFICATE

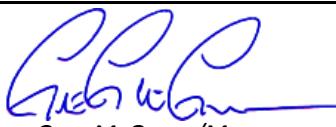
Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34332
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	9/5/2014				<b>Tested by</b>	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
110 84993	8.00	150	LOC ON ATT PLAN R.L.5.84	84993	- -	15.0	Adj. 17.0	2.0 DRY	88.0	1.76	1.81	Adj 97.0
Material Description:DARK BROWN SILTY CLAY & ROCK FRAGMENTS.												
111 84994	8.30	150	LOC ON ATT PLAN R.L.5.96	84994	- -	16.0	Adj. 18.0	2.0 DRY	89.0	1.72	1.77	Adj 97.0
Material Description:BROWN SILTY CLAY & ROCK FRAGMENTS.												
112 84995	9.00	150	LOC ON ATT PLAN R.L.6.27	84995	- -	14.0	Adj. 14.0	-	100.0	1.77	1.81	Adj 98.0
Material Description:LIGHT BROWN SILTY SANDY CLAY.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

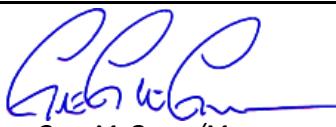
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34333
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	12/5/2014				<b>Tested by</b>	GMG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
113 84996	8.00	150	LOC ON ATT PLAN R.L.5.02	84996	- -	17.5	Adj. 17.5	-	100.0	1.68	1.73	97.0
Material Description:BROWN SILTY CLAY.												
114 84997	8.30	150	LOC ON ATT PLAN R.L.5.07	84997	- -	15.0	Adj. 17.0	2.0 DRY	88.0	1.75	1.79	98.0
Material Description:BROWN SILTY CLAY.												
115 84998	9.00	150	LOC ON ATT PLAN R.L.5.27	84998	- -	15.0	Adj. 15.5	0.5 DRY	97.0	1.75	1.82	96.0
Material Description:BROWN SILTY CLAY.												
116 84999	10.30	150	LOC ON ATT PLAN R.L.6.34	84999	- -	10.5	Adj. 13.5	3.0 DRY	78.0	1.81	1.88	96.5
Material Description:LIGHT RED SILTY CLAY & FINE ROCK FRAGMENTS.												
117 85000	11.00	150	LOC ON ATT PLAN R.L.6.57	85000	- -	10.5	Adj. 12.0	1.5 DRY	87.5	1.82	1.91	95.5
Material Description:LIGHT RED-BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34334
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	13/5/2014				<b>Tested by</b>	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
118 85027	9.00	150	LOC ON ATT PLAN R.L.5.54	85027	- -	13.0	Adj. 14.0	1.0 DRY	93.0	1.85	1.87	99.0
					Material Description: GREY-BROWN SILTY SANDY CLAY.							
119 85028	9.30	150	LOC ON ATT PLAN R.L.5.49	85028	- -	10.5	Adj. 12.5	2.0 DRY	84.0	1.79	1.88	95.0
					Material Description: LIGHT RED-BROWN SILTY SANDY CLAY.							
120 85029	10.00	150	LOC ON ATT PLAN R.L.5.34	85029	- -	12.0	Adj. 11.5	0.5 WET	104.5	1.83	1.93	95.0
					Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

76 Groth Road  
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Ph.(07) 32652033 Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

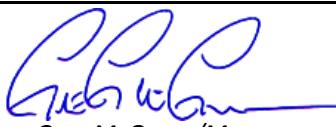
Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34335
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	14/5/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
121 85100	8.30	150	LOC ON ATT PLAN R.L.5.03	85100	- -	12.5	Adj. 13.0	0.5 DRY	96.0	1.80	1.87	Adj 96.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS.												
122 85101	9.00	150	LOC ON ATT PLAN R.L.6.40	85101	- -	13.5	Adj. 14.0	0.5 DRY	96.5	1.82	1.85	Adj 98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS.												
123 85102	9.30	150	LOC ON ATT PLAN R.L.6.63	85102	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.70	1.76	Adj 96.5
Material Description: BROWN SOME RED SILTY CLAY.												
124 85103	10.0	150	LOC ON ATT PLAN R.L.5.27	85103	- -	13.0	Adj. 14.0	1.0 DRY	93.0	1.84	1.87	Adj. 98.5
Material Description: BROWN SILTY SANDY CLAY.												
125 85104	10.30	150	LOC ON ATT PLAN R.L.5.50	85104	- -	13.5	Adj. 14.5	1.0 DRY	93.0	1.81	1.84	Adj. 98.5
Material Description: BROWN SILTY SANDY CLAY.												
126 85105	11.00	150	LOC ON ATT PLAN R.L.5.82	85105	- -	13.0	Adj. 13.0	-	100.0	1.86	1.89	Adj. 98.5
Material Description: BROWN SILTY SANDY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	 Greg McGrann/Manager Approved Signatory
Checked By: R MCGRANN RM		



**Brisbane Soil Testing**  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34336
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	19/5/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
127 85122	8.30	150	LOC ON ATT PLAN R.L.4.96	85122	- -	15.0	Adj. 16.5	1.5 DRY	91.0	1.71	1.77	96.5
Material Description: RED-BROWN SILTY SANDY CLAY.												
128 85123	9.00	150	LOC ON ATT PLAN R.L.6.11	85123	- -	14.0	Adj. 14.0	-	100.0	1.76	1.81	97.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
129 86124	10.00	150	LOC ON ATT PLAN R.L.5.56	85124	- -	12.0	Adj. 13.0	1.0 DRY	92.5	1.83	1.82	100.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34338
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	20/5/2014				<b>Tested by</b>	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
130 85125	10.00	150	LOC ON ATT PLAN R.L.7.14	85125	- -	13.5	Adj. 13.5	-	100.0	1.83	1.85	99.0
Material Description: LIGHT BROWN MOTTLED GREY SLITY CLAY.												
							Adj.				Adj	
Material Description:												
							Adj.				Adj	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34339
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/5/2014				<b>Tested by</b>	JM AC RW

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
131 85228	8.00	150	LOC ON ATT PLAN R.L.6.65	85228	- -	12.5	Adj. 14.5	2.0 DRY	86.0	1.75	1.82	96.0
Material Description:BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
132 85229	8.00	150	LOC ON ATT PLAN R.L.7.05	85229	- -	10.5	Adj. 10.5	-	100.0	1.93	1.95	99.0
Material Description:BROWN SILTY SANDY GRAVELLY CLAY.												
133 85230	8.00	150	LOC ON ATT PLAN R.L.6.29	85230	- -	12.0	Adj. 13.5	1.5 DRY	89.0	1.80	1.89	95.0
Material Description:BROWN SILTY SANDY CLAY.												
134 85231	8.30	150	LOC ON ATT PLAN R.L.6.57	85231	- -	15.0	Adj. 13.0	2.0 WET	115.5	1.77	1.82	97.5
Material Description:BROWN SILTY SANDY CLAY.												
135 85232	8.30	150	LOC ON ATT PLAN R.L.7.64	85232	- -	14.0	Adj. 17.0	3.0 DRY	82.5	1.70	1.79	95.0
Material Description:DARK BROWN SILTY CLAY.												
136 85233	8.30	150	LOC ON ATT PLAN R.L.6.78	85233	- -	14.5	Adj. 19.0	4.5 DRY	76.5	1.76	1.72	102.5
Material Description:RED-BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34340
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/5/2014				<b>Tested by</b>	JM AC RW

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
137 85234	9.00	150	LOC ON ATT PLAN R.L.7.04	85234	- -	13.5	Adj. 17.0	3.5 DRY	79.5	1.76	1.74	101.0
Material Description: RED-BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
138 85235	9.00	150	LOC ON ATT PLAN R.L.6.02	85235	- -	13.5	Adj. 14.5	1.0 DRY	93.0	1.94	1.87	103.5
Material Description: BROWN SILTY SANDY CLAY.												
139 85236	9.00	150	LOC ON ATT PLAN R.L.6.72	85236	- -	11.5	Adj. 13.5	2.0 DRY	85.0	1.94	1.89	102.5
Material Description: LIGHT BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
140 85237	9.30	150	LOC ON ATT PLAN R.L.6.98	85237	- -	14.5	Adj. 14.0	0.5 WET	103.5	1.88	1.85	101.5
Material Description: LIGHT BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
141 85238	9.30	150	LOC ON ATT PLAN R.L.7.19	85238	- -	13.0	Adj. 12.5	0.5 WET	104.0	1.83	1.91	96.0
Material Description: LIGHT BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												
142 85239	9.30	150	LOC ON ATT PLAN R.L.6.14	85239	- -	12.5	Adj. 12.5	-	100.0	1.87	1.85	101.0
Material Description: LIGHT BROWN SILTY CLAY & FINE ROCK FRAGMENTS.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

<b>Customer</b>	BMD URBAN PTY LTD	<b>Feature</b>	BULK EARTHWORKS				<b>Report No.</b>	34341
<b>Address</b>	PO BOX 197, WYNNUM CENTRAL QLD 4178	<b>Location</b>	SEE BELOW				<b>Job No.</b>	1418
<b>Project</b>	CAPESTONE ESTATE – STAGE 6	<b>Date Tested</b>	24/5/2014				<b>Tested by</b>	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
143 85240	10.00	150	LOC ON ATT PLAN R.L.4.86	85240	- -	11.0	Adj. 13.5	2.5 DRY	81.5	1.92	1.91	100.5
Material Description: RED-BROWN SILTY CLAY.												
							Adj.				Adj	
Material Description:												
							Adj.				Adj	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 26.8.14	 This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. Lab No. 2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory



# Brisbane Soil Testing

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Ph.(07) 3285 6536

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40780
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	19/7/2014			Tested by	GM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
144 86244	8.00	150	LOC ON ATT PLAN R.L.7.23	86244	- -	15.0	Adj. 16.5	1.5 DRY	91.0	1.82	1.76	103.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
145 86245	8.30	150	LOC ON ATT PLAN R.L.7.91	86245	- -	16.0	Adj. 16.0	-	100.0	1.78	1.78	100.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
146 86246	9.00	150	LOC ON ATT PLAN R.L.7.10	86246	- -	15.0	Adj. 14.0	1.0 WET	107.0	1.81	1.84	98.5
Material Description: REDDISH-BROWN SANDY CLAY & ROCK FRAGMENTS												
147 86247	9.30	150	LOC ON ATT PLAN R.L.7.44	86247	- -	15.5	Adj. 14.5	1.0 WET	107.0	1.78	1.83	97.0
Material Description: REDDISH-BROWN SANDY CLAY & ROCK FRAGMENTS												
							Adj.				Adj.	
Material Description:												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date:29.7.17



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40781
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	21/7/2014	Tested by	GM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
148 86248	8.00	150	LOC ON ATT PLAN R.L.8.10	86248	-      -	17.0	17.0	-	100.0	1.77	1.78	99.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
149 86249	8.30	150	LOC ON ATT PLAN R.L.7.60	86249	-      -	17.5	16.0	1.5 WET	109.5	1.82	1.77	103.0
Material Description: BROWN SILTY GRAVELLY CLAY												
150 86250	9.00	150	LOC ON ATT PLAN R.L.7.90	86250	-      -	16.5	15.0 WET	1.5 WET	110.0	1.82	1.83	99.5
Material Description: BROWN SILTY GRAVELLY CLAY												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:29.7.17
Checked By: R MCGRANN <i>R Mc</i>		<i>G. McGrann</i>



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40782
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	23/7/2017				Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
151 86294	8.00	150	LOC ON ATT PLAN R.L.8.33	86294	- -	11.5	Adj. 15.5	4.0 DRY	74.0	1.86	1.84	101.0
Material Description: GREY-BROWN SILTY GRAVELLY CLAY												
152 86295	8.00	150	LOC ON ATT PLAN R.L.8.39	86295	- -	16.0	Adj. 15.5	0.5 WET	103.0	1.88	1.86	101.0
Material Description: BROWN SILTY GRAVELLY CLAY												
153 86296	8.30	150	LOC ON ATT PLAN R.L.7.57	86296	- -	12.5	Adj. 14.5	2.0 DRY	86.0	1.78	1.87	95.0
Material Description: BROWN SILTY GRAVELLY CLAY												
154 86297	8.30	150	LOC ON ATT PLAN R.L.8.59	86297	- -	13.0	Adj. 14.5	1.5 DRY	89.5	1.80	1.84	98.0
Material Description: BROWN SILTY SANDY CLAY												
155 86298	9.00	150	LOC ON ATT PLAN R.L.8.02	86298	- -	15.0	Adj. 16.5	1.5 DRY	91.0	1.79	1.79	100.0
Material Description: BROWN SILTY CLAY												
156 86299	9.00	150	LOC ON ATT PLAN R.L.6.74	86299	- -	13.0	Adj. 17.0	4.0 DRY	76.5	1.77	1.77	100.0
Material Description: LIGHT RED-BROWN SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:29.7.17
Checked By: R MCGRANN	R MCGRANN	



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40783
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	23/7/2014			Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
157 86300	9.30	150	LOC ON ATT PLAN R.L.7.30	86300	- -	14.0	Adj. 17.0	3.0 DRY	82.5	1.83	1.78	103.0
Material Description: LIGHT RED-BROWN SILTY CLAY												
158 86301	10.00	150	LOC ON ATT PLAN R.L.7.19	86301	- -	13.5	Adj. 17.5	4.0 DRY	77.0	1.71	1.76	97.0
Material Description: BROWN SILTY CLAY												
159 86302	10.30	150	LOC ON ATT PLAN R.L.7.13	86302	- -	13.0	Adj. 16.0	3.0 DRY	81.5	1.74	1.75	99.5
Material Description: LIGHT RED SILTY CLAY												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:29.7.17



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40784
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	24/7/2014				Tested by	JM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
160 86303	8.00	150	LOC ON ATT PLAN R.L.7.61	86303	- -	14.5	14.5	-	100.0	1.83	1.81	100.0
Material Description: LIGHT RED-BROWN SILTY CLAY												
161 86304	8.00	150	LOC ON ATT PLAN R.L.7.57	86304	- -	12.0	15.0	Adj. 3.0 DRY	80.0	1.75	1.83	95.5
Material Description: BROWN SILTY CLAY												
162 86305	8.30	150	LOC ON ATT PLAN R.L.7.40	86305	- -	10.0	13.0	Adj. 3.0 DRY	77.0	1.74	1.77	98.5
Material Description: GREY-BROWN SILTY CLAY												
163 86306	8.30	150	LOC ON ATT PLAN R.L.8.04	86306	- -	13.5	15.0	Adj. 1.5 DRY	90.0	1.83	1.83	100.0
Material Description: BROWN SILTY CLAY												
164 86307	9.00	150	LOC ON ATT PLAN R.L.7.95	86307	- -	13.5	15.0	Adj. 1.5 DRY	90.0	1.83	1.83	100.0
Material Description: RED-BROWN SILTY CLAY												
165 86308	9.30	150	LOC ON ATT PLAN R.L.8.13	86308	- -	15.0	15.5	Adj. 0.5 DRY	97.0	1.82	1.77	103.0
Material Description: RED-BROWN CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:29.7.17
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40785
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	25/7/2014				Tested by	AC CF

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
166 86323	8.00	150	LOC ON ATT PLAN R.L.7.11	86323	- -	17.5	Adj. 16.0	1.5 WET	109.5	1.78	1.74	102.5
Material Description: LIGHT BROWN SILTY CLAY												
167 86324	8.00	150	LOC ON ATT PLAN R.L.7.19	86324	- -	13.5	Adj. 16.5	3.0 DRY	82.0	1.73	1.73	100.0
Material Description: LIGHT RED-BROWN SILTY CLAY												
168 86325	8.30	150	LOC ON ATT PLAN R.L.7.13	86325	- -	13.0	Adj. 16.0	3.0 DRY	81.5	1.82	1.80	101.0
Material Description: BROWN SILTY CLAY												
169 86326	8.30	150	LOC ON ATT PLAN R.L.7.12	86326	- -	15.0	Adj. 16.0	1.0 DRY	94.0	1.81	1.76	103.0
Material Description: BROWN SILTY CLAY												
170 86327	9.00	150	LOC ON ATT PLAN R.L.7.48	86327	- -	13.0	Adj. 16.0	3.0 DRY	81.5	1.77	1.82	97.5
Material Description: BROWN SILTY CLAY												
171 86328	9.00	150	LOC ON ATT PLAN R.L.7.52	86328	- -	14.0	Adj. 17.0	3.0 DRY	82.5	1.77	1.76	100.5
Material Description: GREY-BROWN SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date:29.7.17



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40786
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	25/7/2014	Tested by	AC CF

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
172 86329	9.30	150	LOC ON ATT PLAN R.L.7.48	86329	-      -	14.0	Adj. 16.0	2.0 DRY	84.5	1.86	1.78	104.5
Material Description: LIGHT BROWN SANDY CLAY												
173 86330	9.30	150	LOC ON ATT PLAN R.L.7.56	86330	-      -	15.0	Adj. 17.0	2.0 DRY	88.0	1.83	1.76	104.0
Material Description: LIGHT BROWN SANDY CLAY												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:29.7.17



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# FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40787
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	29/7/2014	Tested by	AC

**Remarks:**

### Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:29.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN 		Greg McGrann/Manager Approved Signatory Date:29.7.17 



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40788
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	11/2/2015				Tested by	AC JG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
178 89167	8.00	150	LOC ON ATT PLAN R.L.4.67	89167	- -	19.5	Adj. 20.0	0.5 DRY	97.5	1.72	1.71	100.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
179 89168	8.00	150	LOC ON ATT PLAN R.L.4.73	89168	- -	17.0	Adj. 20.5	3.5 DRY	83.0	1.71	1.69	101.0
Material Description: RED-BROWN CLAY												
180 89169	8.30	150	LOC ON ATT PLAN R.L.4.42	89169	- -	18.5	Adj. 19.5	1.0 DRY	95.0	1.74	1.68	103.5
Material Description: RED-BROWN SILTY CLAY												
181 89170	8.30	150	LOC ON ATT PLAN R.L.5.52	89170	- -	17.5	Adj. 17.5	-	100.0	1.71	1.76	97.0
Material Description: DARK RED-BROWN SILTY CLAY												
182 89171	9.00	150	LOC ON ATT PLAN R.L.4.71	89171	- -	21.0	Adj. 22.0	1.0 DRY	95.5	1.66	1.64	101.0
Material Description: BROWN SILTY CLAY												
183 89172	9.00	150	LOC ON ATT PLAN R.L.4.96	89172	- -	20.5	Adj. 19.0	1.5 WET	108.0	1.66	1.70	97.5
Material Description: RED-BROWN SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN	R MCGRANN	



**Brisbane Soil Testing**  
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# FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40789
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	2/3/2015	Tested by	JM

Field Test No Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %	
184 89345A	8.00	150	LOC ON ATT PLAN R.L.5.30	89345A	-	-	15.5	Adj. 17.0	1.5 DRY	91.0	1.75	Adj. 1.73	<b>101.0</b>
					Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY								
185 89346A	8.30	150	LOC ON ATT PLAN R.L.5.37	89346A	-	-	17.0	Adj. 20.0	3.0 DRY	85.0	1.65	Adj. 1.68	<b>98.0</b>
					Material Description: GREY-BROWN SILTY CLAY								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	

**Remarks:**

### Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN 		Greg McGrann/Manager Approved Signatory Date:31.7.17 



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40790
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	3/3/2015				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
186 89357	8.00	150	LOC ON ATT PLAN R.L.5.69	89357	- -	15.0	Adj. 17.5	2.5 DRY	85.5	1.77	1.73	Adj. 102.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
187 89358	8.30	150	LOC ON ATT PLAN R.L.5.09	89358	- -	18.0	Adj. 17.5	0.5 WET	103.0	1.70	1.70	Adj. 100.0
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
188 89359	9.00	150	LOC ON ATT PLAN R.L.5.14	89359	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.66	1.72	Adj. 96.5
Material Description: REDDISH-GREY SILTY CLAY												
189 89360	9.30	150	LOC ON ATT PLAN R.L.5.24	89360	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.71	1.74	Adj. 98.5
Material Description: REDDISH-GREY SILTY CLAY												
190 89361	10.00	150	LOC ON ATT PLAN R.L.5.30	89361	- -	16.5	Adj. 18.0	1.5 DRY	91.5	1.73	1.72	Adj. 100.0
Material Description: REDDISH-GREY SILTY CLAY												
191 89362	10.30	150	LOC ON ATT PLAN R.L.5.56	89362	- -	16.0	Adj. 17.0	1.0 DRY	94.0	1.66	1.73	Adj. 96.0
Material Description: REDDISH-GREY SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40791
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	3/3/2015				Tested by	JG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
192 89363	11.00	150	LOC ON ATT PLAN R.L.5.50	89363	- -	16.5	Adj. 17.0	0.5 DRY	97.0	1.64	1.71	96.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS												
193 89364	11.00	150	LOC ON ATT PLAN R.L.5.46	89364	- -	22.0	Adj. 22.0	-	100.0	1.63	1.60	102.0
Material Description: REDDISH-BROWN SILTY CLAY												
194 89365	11.30	150	LOC ON ATT PLAN R.L.5.63	89365	- -	15.5	Adj. 17.0	1.5 DRY	91.0	1.66	1.71	97.5
Material Description: DARK RED-BROWN SILTY CLAY												
195 89366	11.30	150	LOC ON ATT PLAN R.L.5.80	89365	- -	15.5	Adj. 17.0	1.5 DRY	91.0	1.67	1.71	97.5
Material Description: REDDISH-BROWN SILTY CLAY												
196 89367	12.00	150	LOC ON ATT PLAN R.L.5.93	89367	- -	20.5	Adj. 18.0	2.5 WET	114.0	1.59	1.68	95.0
Material Description: REDDISH-GREY SILTY CLAY												
197 89368	12.00	150	LOC ON ATT PLAN R.L.5.77	89368	- -	17.0	Adj. 17.5	0.5 DRY	97.0	1.69	1.73	97.5
Material Description: BROWN SILTY SANDY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date:31.7.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40792
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	4/3/2015				Tested by	JG AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
198 89387	8.00	150	LOC ON ATT PLAN R.L.6.45	89387	- -	15.0	Adj. 17.0	2.0 DRY	88.0	1.72	1.77	<b>97.0</b>
Material Description: BROWN SILTY SANDY CLAY.												
199 89388	8.30	150	LOC ON ATT PLAN R.L.6.29	89388	- -	21.5	Adj. 24.5	3.5 DRY	85.5	1.61	1.58	<b>102.0</b>
Material Description: REDDISH-BROWN CLAY.												
200 89389	9.00	150	LOC ON ATT PLAN R.L.6.13	89389	- -	13.5	Adj. 16.0	2.5 DRY	84.5	1.74	1.60	<b>97.0</b>
Material Description: LIGHT BROWN SILTY CLAY.												
201 89390	9.00	150	LOC ON ATT PLAN R.L.5.88	89390	- -	13.5	Adj. 15.0	1.5 DRY	90.0	1.85	1.81	<b>102.0</b>
Material Description: LIGHT BROWN SILTY CLAY.												
202 89391	9.30	150	LOC ON ATT PLAN R.L.6.13	89391	- -	10.5	Adj. 13.0	2.5 DRY	81.0	1.81	1.86	<b>97.5</b>
Material Description: BROWN SILTY SANDY CLAY.												
203 89392	9.30	150	LOC ON ATT PLAN R.L.6.27	89392	- -	18.0	Adj. 18.5	0.5 DRY	97.5	1.61	1.66	<b>97.0</b>
Material Description: LIGHT BROWN SILTY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40793
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	4/3/2015				Tested by	AC JG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
204 89393	10.00	150	LOC ON ATT PLAN R.L.6.48	89393	- -	21.5	Adj. 22.5	1.0 DRY	95.5	1.52	1.60	95.0
Material Description: LIGHT BROWN SILTY CLAY.												
205 89394	10.00	150	LOC ON ATT PLAN R.L.6.27	89394	- -	15.0	Adj. 18.0	3.0 DRY	83.5	1.73	1.69	102.5
Material Description: LIGHT BROWN SILTY CLAY.												
206 89395	10.30	150	LOC ON ATT PLAN R.L.6.79	89395	- -	16.5	Adj. 18.5	2.0 DRY	89.0	1.68	1.73	97.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY.												
207 89396	10.30	150	LOC ON ATT PLAN R.L.5.70	89396	- -	15.0	Adj. 17.0	2.0 DRY	88.0	1.79	1.78	100.5
Material Description: LIGHT REDDISH-BROWN SILTY CLAY.												
208 89397	10.30	150	LOC ON ATT PLAN R.L.5.66	89397	- -	14.5	Adj. 15.5	1.0 DRY	93.5	1.77	1.80	98.5
Material Description: BROWN SILTY SANDY CLAY.												
209 89398	11.00	150	LOC ON ATT PLAN R.L.6.53	89398	- -	13.0	Adj. 13.0	-	100.0	1.83	1.89	97.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN		Greg McGrann/Manager Approved Signatory Date:31.7.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40794
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	4/3/2015	Tested by	JG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
210 89399	11.00	150	LOC ON ATT PLAN R.L.5.89	89399	-      -	17.0	Adj. 19.0	2.0 DRY	89.5	1.78	1.75	101.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN		Greg McGrann/Manager Approved Signatory Date:31.7.17



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Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40795
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	10/3/2015			Tested by	JG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
211 89487	8.00	150	LOC ON ATT PLAN R.L.4.30	89487	- -	14.0	Adj. 16.5	2.5 DRY	85.0	1.73	1.78	97.0
212 89488	8.30	150	LOC ON ATT PLAN R.L.4.51	89488	- -	14.0	Adj. 16.0	2.0 DRY	87.5	1.76	1.79	98.5
213 89489	9.00	150	LOC ON ATT PLAN R.L.4.30	89489	- -	13.0	Adj. 14.0	1.0 DRY	93.0	1.76	1.83	96.0
214 89490	9.30	150	LOC ON ATT PLAN R.L.4.69	89490	- -	15.5	Adj. 17.0	1.5 DRY	91.0	1.72	1.67	103.0
215 89491	10.00	150	LOC ON ATT PLAN R.L.5.12	89491	- -	17.5	Adj. 19.5	2.0 DRY	89.5	1.69	1.69	100.0
216 89492	10.30	150	LOC ON ATT PLAN R.L.5.11	89492	- -	15.0	Adj. 16.0	1.0 DRY	94.0	1.76	1.80	98.0

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN RM		



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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40796
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	18/3/2015			Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
217 89663	8.00	150	LOC ON ATT PLAN R.L.5.45	89663	- -	17.0	Adj. 19.5	2.5 DRY	87.0	1.65	1.68	98.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
218 89664	8.30	150	LOC ON ATT PLAN R.L.5.79	89664	- -	14.5	Adj. 17.5	3.0 DRY	83.0	1.70	1.72	99.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
219 89665	9.00	150	LOC ON ATT PLAN R.L.5.95	89665	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.74	1.75	100.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
220 89666	9.30	150	LOC ON ATT PLAN R.L.5.59	89666	- -	16.0	Adj. 17.0	1.0 DRY	94.0	1.65	1.70	97.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
221 89667	10.00	150	LOC ON ATT PLAN R.L.5.35	89667	- -	17.0	Adj. 17.0	-	100.0	1.63	1.70	96.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
222 89668	10.30	150	LOC ON ATT PLAN R.L.5.60	89668	- -	16.0	Adj. 18.5	2.5 DRY	86.5	1.62	1.69	96.0
Material Description: LIGHT BROWN SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN	R MCGRANN	



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Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40797
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	27/7/2015	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
223 97215	8.00	150	LOC ON ATT PLAN R.L.6.48	97215	-      -	18.5	Adj. 20.0	1.5 DRY	92.5	1.60	1.67	<b>96.0</b>
Material Description: LIGHT YELLOW-BROWN SILTY CLAY & ROCK FRAGMENTS												
224 97216	8.30	150	LOC ON ATT PLAN R.L.6.55	97216	-      -	14.5	Adj. 16.5	2.0 DRY	88.0	1.72	1.77	<b>97.5</b>
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:31.7.17



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Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40798
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	28/7/2015				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
225 97217	8.00	150	LOC ON ATT PLAN R.L.8.90	97217	- -	14.5	Adj. 14.5	-	100.0	1.81	1.83	99.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS												
226 97218	8.30	150	LOC ON ATT PLAN R.L.8.63	97218	- -	11.0	Adj. 12.5	1.5 DRY	88.0	1.90	1.92	99.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS												
227 97219	9.00	150	LOC ON ATT PLAN R.L.9.11	97219	- -	21.0	Adj. 22.0	1.0 DRY	95.5	1.64	1.63	100.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY												
228 97220	9.30	150	LOC ON ATT PLAN R.L.9.34	97220	- -	17.5	Adj. 18.0	0.5 DRY	97.0	1.78	1.78	100.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												
229 97221	10.00	150	LOC ON ATT PLAN R.L.8.84	97221	- -	12.0	Adj. 14.0	2.0 DRY	85.5	1.89	1.85	102.0
Material Description: BROWN SILTY SANDY CLAY												
230 97222	10.30	150	LOC ON ATT PLAN R.L.9.22	97222	- -	17.5	Adj. 16.5	1.0 WET	106.0	1.77	1.80	98.5
Material Description: BROWN SILTY SANDY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date:31.7.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40799
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	29/7/2015			Tested by	GM JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
231 97293	10.00	150	LOC ON ATT PLAN R.L.9.40	97293	- -	13.0	Adj. 13.5	0.5 DRY	96.5	1.87	1.88	99.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
232 97294	10.20	150	LOC ON ATT PLAN R.L.9.73	97294	- -	14.0	Adj. 15.0	1.0 DRY	93.5	1.86	1.81	103.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
233 97295	13.00	150	LOC ON ATT PLAN R.L.7.21	97295	- -	16.5	Adj. 18.0	1.5 DRY	91.5	1.66	1.75	95.0
Material Description: GREY-BROWN SILTY CLAY.												
234 97296	13.20	150	LOC ON ATT PLAN R.L.7.70	97296	- -	23.0	Adj. 21.5	1.5 WET	107.0	1.58	1.63	97.0
Material Description: GREY-BROWN CLAY.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:31.7.17



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Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40800
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	3/8/2015				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
235 97386	8.00	150	LOC ON ATT PLAN R.L.7.00	97386	- -	21.0	Adj. 22.5	1.5 DRY	93.5	1.58	1.65	96.0
Material Description: REDDISH-BROWN & GREY CLAY												
236 97387	8.30	150	LOC ON ATT PLAN R.L.7.10	97387	- -	17.0	Adj. 18.5	1.5 DRY	92.0	1.69	1.74	97.0
Material Description: DARK BROWN SILTY SANDY CLAY												
237 97388	9.00	150	LOC ON ATT PLAN R.L.7.30	97388	- -	16.5	Adj. 16.5	-	100.0	1.70	1.78	95.5
Material Description: DARK BROWN SILTY SANDY CLAY												
238 97389	9.30	150	LOC ON ATT PLAN R.L.7.20	97389	- -	9.5	Adj. 11.5	2.0 DRY	82.5	1.94	1.96	99.0
Material Description: BROWN ASNDY CLAY & ROCK FRAGMENTS												
239 97390	10.00	150	LOC ON ATT PLAN R.L.6.90	97390	- -	18.0	Adj. 19.0	1.0 DRY	94.5	1.69	1.72	98.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
240 97391	10.30	150	LOC ON ATT PLAN R.L.6.80	97391	- -	25.0	Adj. 23.5	1.5 WET	106.5	1.58	1.62	97.5
Material Description: GREY-BROWN CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date:31.7.17



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 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40801
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	4/8/2015				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
241 97412	9.00	150	LOC ON ATT PLAN R.L.7.40	97412	- -	22.5	Adj. 24.0	2.0 DRY	91.5	1.61	1.61	100.0
Material Description: GREY-BROWN SILTY CLAY												
242 97413	9.30	150	LOC ON ATT PLAN R.L.7.44	97413	- -	22.5	Adj. 23.5	1.5 DRY	93.5	1.60	1.64	97.5
Material Description: GREY-BROWN SILTY CLAY												
243 97414	10.00	150	LOC ON ATT PLAN R.L.7.02	97414	- -	18.0	Adj. 20.5	2.5 DRY	88.0	1.69	1.69	100.0
Material Description: GREY-BROWN SILTY CLAY												
244 97415	10.30	150	LOC ON ATT PLAN R.L.6.70	97415	- -	23.0	Adj. 24.5	1.5 DRY	94.0	1.58	1.61	98.0
Material Description: GREY-BROWN SILTY CLAY												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN	R MCGRANN	



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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40802
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	6/8/2015				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
245 97468	8.00	150	LOC ON ATT PLAN R.L.6.04	97468	- -	19.5	Adj. 21.5	2.0 DRY	90.5	1.62	1.66	97.5
Material Description: GREY-BROWN SILTY CLAY												
246 97469	8.30	150	LOC ON ATT PLAN R.L.6.28	97469	- -	17.0	Adj. 19.0	2.0 DRY	89.5	1.65	1.72	96.0
Material Description: GREY-BROWN SILTY CLAY												
247 97470	9.00	150	LOC ON ATT PLAN R.L.5.91	97470	- -	23.0	Adj. 24.0	1.0 DRY	96.0	1.59	1.60	99.5
Material Description: GREY-BROWN SILTY CLAY												
248 97471	9.30	150	LOC ON ATT PLAN R.L.5.98	97471	- -	17.5	Adj. 20.0	2.5 DRY	87.5	1.71	1.73	99.0
Material Description: DARK BROWN SILTY CLAY												
249 97472	10.00	150	LOC ON ATT PLAN R.L.6.07	97472	- -	16.5	Adj. 18.0	1.5 DRY	91.5	1.74	1.73	100.5
Material Description: DARK BROWN SILTY CLAY												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:31.7.17
Checked By: R MCGRANN RM		



# Brisbane Soil Testing

20/1191 Anzac Ave  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40803
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	7/8/2015			Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
250 97488	8.00	150	LOC ON ATT PLAN R.L.5.90	97488	- -	22.0	Adj. 23.5	1.5 DRY	93.5	1.61	1.63	99.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY												
251 97489	8.30	150	LOC ON ATT PLAN R.L.6.30	97489	- -	23.5	Adj. 24.0	0.5 DRY	98.0	1.60	1.61	99.5
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY												
252 97490	9.00	150	LOC ON ATT PLAN R.L.6.50	97490	- -	16.0	Adj. 18.5	2.5 DRY	86.5	1.76	1.74	101.0
Material Description: BROWN SILTY SANDY CLAY												
253 97491	9.30	150	LOC ON ATT PLAN R.L.6.19	97491	- -	16.5	Adj. 18.0	1.5 DRY	91.5	1.71	1.74	98.5
Material Description: BROWN SILTY SANDY CLAY												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:31.7.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:31.7.17



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## **FIELD DENSITY CERTIFICATE**

Connemar Pty. Ltd.  
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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40804
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	27/4/2016	Tested by	JM

Field Test No Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %	
254 3180	8.00	150	LOC ON ATT PLAN R.L.3.64	3180	-	-	18.5	Adj. 17.0	1.5 WET	109.0	1.72	Adj. 1.75	
					Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS								
255 3181	8.30	150	LOC ON ATT PLAN R.L.4.02	3181	-	-	19.0	Adj. 19.5	0.5 DRY	97.5	1.69	Adj. 1.70	
					Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	

### Remarks:

### Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN 		Greg McGrann/Manager Approved Signatory Date:1.8.17 



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40805
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	28/4/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
256 3183	8.30	150	LOC ON ATT PLAN R.L.5.08	8183	- -	16.5	Adj. 16.5	-	100.0	1.81	1.78	101.5
Material Description: LIGHT REDDISH-BROWN SILTY CLAY.												
257 3184	9.00	150	LOC ON ATT PLAN R.L.5.66	8184	- -	15.5	Adj. 16.0	0.5 DRY	97.0	1.79	1.79	100.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY.												
258 3185	9.30	150	LOC ON ATT PLAN R.L.6.76	8185	- -	17.5	Adj. 20.5	3.0 DRY	85.5	1.66	1.69	98.0
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.												
259 3186	10.00	150	LOC ON ATT PLAN R.L.6.83	8186	- -	15.0	Adj. 17.5	2.5 DRY	85.5	1.76	1.75	100.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40806
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	29/4/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
260 3204	8.00	150	LOC ON ATT PLAN R.L.6.05	3204	- -	15.0	15.0	-	100.0	1.90	1.85	102.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
261 3205	8.30	150	LOC ON ATT PLAN R.L.6.27	3205	- -	17.5	18.0	Adj. 0.5 DRY	97.0	1.86	1.75	106.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
262 3206	9.00	150	LOC ON ATT PLAN R.L.6.68	3206	- -	15.5	15.5	-	100.0	1.78	1.79	99.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
263 3207	9.30	150	LOC ON ATT PLAN R.L.6.92	3207	- -	16.5	16.0	Adj. 0.5 WET	103.0	1.75	1.75	100.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
								Adj.				Adj.
Material Description:												
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40807
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	5/5/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
264 3226	9.00	150	LOC ON ATT PLAN R.L.5.66	3226	- -	18.0	Adj. 18.5	0.5 DRY	97.5	1.76	1.73	Adj. 101.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
265 3227	9.30	150	LOC ON ATT PLAN R.L.6.14	3227	- -	17.5	Adj. 17.5	-	100.0	1.74	1.74	Adj. 100.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
266 3228	10.00	150	LOC ON ATT PLAN R.L.6.30	3228	- -	17.0	Adj. 16.0	1.0 WET	106.5	1.76	1.79	Adj. 98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
267 3229	10.30	150	LOC ON ATT PLAN R.L.5.80	3229	- -	13.5	Adj. 14.0	0.5 DRY	96.5	1.93	1.89	Adj. 102.0
Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40808
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	6/5/2016			Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
268 3240	8.00	150	LOC ON ATT PLAN R.L.6.92	3240	- -	11.0	Adj. 13.0	2.0 DRY	84.5	1.93	1.94	99.5
Material Description: GREY-BROWN SANDY CLAY & ROCK FRAGMENTS												
269 3241	8.30	150	LOC ON ATT PLAN R.L.5.93	3241	- -	14.0	Adj. 13.0	1.0 WET	107.5	1.94	1.91	101.5
Material Description: GREY-BROWN SANDY CLAY & ROCK FRAGMENTS												
270 3242	9.00	150	LOC ON ATT PLAN R.L.6.04	3242	- -	14.5	Adj. 14.0	0.5 WET	103.5	1.90	1.87	101.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
271 3243	9.30	150	LOC ON ATT PLAN R.L.6.36	3243	- -	20.0	Adj. 18.5	1.5 WET	108.0	1.69	1.75	96.5
Material Description: GREY-BROWN SILTY CLAY												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN		Greg McGrann/Manager Approved Signatory Date:1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40809
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	7/5/2016			Tested by	JC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
272 3244	8.00	150	LOC ON ATT PLAN R.L.6.10	3244	- -	10.5	Adj. 12.5	2.0 DRY	84.0	1.90	1.96	<b>97.0</b>
Material Description: LIGHT YELLOW-BROWN SANDY CLAY												
273 3245	8.30	150	LOC ON ATT PLAN R.L.5.81	3245	- -	12.5	Adj. 13.5	1.0 DRY	92.5	1.85	1.91	<b>97.0</b>
Material Description: LIGHT YELLOW-BROWN SANDY CLAY												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN <i>R Mc</i>		Greg McGrann/Manager Approved Signatory Date:1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40810
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	9/5/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
274 3264	8.00	150	LOC ON ATT PLAN R.L.7.38	3264	- -	18.0	Adj. 17.0	1.0 WET	106.0	1.76	1.74	101.0
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS												
275 3265	8.30	150	LOC ON ATT PLAN R.L.6.32	3265	- -	17.5	Adj. 17.0	0.5 WET	103.0	1.69	1.77	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS												
276 3266	9.00	150	LOC ON ATT PLAN R.L.6.33	3266	- -	15.0	Adj. 14.0	1.0 WET	107.0	1.79	1.86	96.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY												
277 3267	9.30	150	LOC ON ATT PLAN R.L.6.56	3267	- -	18.0	Adj. 16.0	2.0 WET	112.5	1.76	1.81	97.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40811
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	10/5/2016			Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
278 3275	8.00	150	LOC ON ATT PLAN R.L.6.51	3275	- -	21.5	Adj. 23.0	1.5 DRY	93.5	1.68	1.65	102.0
Material Description: GREY-BROWN SILTY CLAY												
279 3276	8.30	150	LOC ON ATT PLAN R.L.6.76	3276	- -	17.5	Adj. 16.5	1.0 WET	106.0	1.79	1.78	100.5
Material Description: DARK BROWN SILTY CLAY												
280 3277	9.00	150	LOC ON ATT PLAN R.L.4.83	3277	- -	19.5	Adj. 20.5	1.0 DRY	95.0	1.69	1.72	98.0
Material Description: LIGHT BROWN SILTY CLAY												
281 3278	9.00	150	LOC ON ATT PLAN R.L.4.64	3278	- -	16.5	Adj. 16.5	-	100.0	1.75	1.77	99.0
Material Description: LIGHT BROWN SILTY CLAY												
282 3288	11.30	150	LOC ON ATT PLAN R.L.7.75	3288	- -	21.5	Adj. 22.0	0.5 DRY	97.5	1.59	1.66	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY												
283 3289	12.00	150	LOC ON ATT PLAN R.L.7.86	3289	- -	18.0	Adj. 16.5	1.5 WET	109.0	1.69	1.74	97.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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Connemar Pty. Ltd.  
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 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40812
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	11/5/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
284 3322	10.00	150	LOC ON ATT PLAN R.L.6.95	3322	- -	14.5	Adj. 15.0	0.5 DRY	96.5	1.86	1.81	103.0
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY.												
285 3323	10.30	150	LOC ON ATT PLAN R.L.7.05	3323	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.83	1.79	102.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
286 3324	11.00	150	LOC ON ATT PLAN R.L.5.13	3324	- -	17.5	Adj. 17.0	0.5 WET	103.0	1.78	1.78	100.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
287 3325	11.30	150	LOC ON ATT PLAN R.L.5.68	3325	- -	20.0	Adj. 19.0	1.0 WET	105.5	1.73	1.72	100.5
Material Description: LIGHT SILTY SANDY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40813
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	12/5/2016				Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
288 3332	9.00	150	LOC ON ATT PLAN R.L.5.84	3332	- -	13.5	Adj. 13.0	0.5 WET	104.0	1.82	1.88	97.0
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS												
289 3333	9.30	150	LOC ON ATT PLAN R.L.5.65	3333	- -	16.0	Adj. 13.0	3.0 WET	123.0	1.83	1.90	96.5
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS												
290 3334	9.30	150	LOC ON ATT PLAN R.L.5.79	3334	- -	17.0	Adj. 16.5	0.5 WET	103.0	1.76	1.75	100.5
Material Description: BROWN SILTY SANDY CLAY												
291 3335	10.00	150	LOC ON ATT PLAN R.L.6.10	3335	- -	21.0	Adj. 21.5	0.5 DRY	97.5	1.67	1.69	99.0
Material Description: BROWN SILTY SANDY CLAY												
292 3336	10.30	150	LOC ON ATT PLAN R.L.6.65	3336	- -	21.0	Adj. 21.5	0.5 DRY	97.5	1.67	1.69	99.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												
293 3337	11.00	150	LOC ON ATT PLAN R.L.6.60	3337	- -	21.0	Adj. 22.5	1.5 DRY	93.5	1.50	1.67	90.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40814
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	13/5/2016				Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
294 3339	9.00	150	LOC ON ATT PLAN R.L.5.62	3339	- -	18.5	Adj. 16.5	2.0 WET	112.0	1.72	1.75	98.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.												
295 3340 <b>RETEST</b>	9.30	150	LOC ON ATT PLAN R.L.6.77	3340	- -	22.5	Adj. 22.5	-	100.0	1.65	1.65	100.0
Material Description: LIGHT GREY-BROWN SILTY CLAY.												
296 3341	10.00	150	LOC ON ATT PLAN R.L.7.01	3341	- -	22.0	Adj. 22.5	0.5 DRY	98.0	1.65	1.68	98.0
Material Description: LIGHT GREY-BROWN SILTY CLAY.												
297 3342	10.30	150	LOC ON ATT PLAN R.L.6.80	3342	- -	22.0	Adj. 24.0	2.0 DRY	91.5	1.65	1.62	102.0
Material Description: REDDISH-BROWN & GREY CLAY.												
298 3343	11.00	150	LOC ON ATT PLAN R.L.6.04	3343	- -	21.5	Adj. 22.0	0.5 DRY	97.5	1.68	1.66	101.0
Material Description: REDDISH-BROWN & GREY CLAY.												
							Adj.				Adj.	
Material Description:												

Remarks: Test 3340 is a retest for test 3337.

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40815
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	14/5/2016				Tested by	JC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
299 3344	9.00	150	LOC ON ATT PLAN R.L.7.31	3344	- -	13.0	Adj. 11.5	1.5 WET	113.0	2.10	2.03	103.5
Material Description: BROWN SANDY GRAVELLY CLAY												
300 3345	9.30	150	LOC ON ATT PLAN R.L.7.10	3345	- -	12.5	Adj. 11.5	1.0 WET	108.5	2.10	2.04	103.0
Material Description: BROWN SANDY GRAVELLY CLAY												
301 3346	10.00	150	LOC ON ATT PLAN R.L.6.20	3346	- -	15.0	Adj. 13.0	2.0 WET	115.5	1.99	1.94	102.5
Material Description: BROWN SANDY GRAVELLY CLAY												
302 3347	10.30	150	LOC ON ATT PLAN R.L.1.62	3347	- -	21.5	Adj. 21.5	-	100.0	1.71	1.68	102.0
Material Description: GREY-BROWN SILTY CLAY												
303 3348	11.00	150	LOC ON ATT PLAN R.L.1.46	3348	- -	24.5	Adj. 22.5	2.0 WET	109.0	1.62	1.65	98.0
Material Description: GREY-BROWN SILTY CLAY												
							Adj.					Adj.
Material Description:												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40816
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	17/5/2016				Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
304 3385	8.30	150	LOC ON ATT PLAN R.L.2.05	3385	- -	21.5	Adj. 21.5	-	100.0	1.69	1.69	100.0
Material Description: GREY-BROWN SILTY CLAY.												
305 3386	9.00	150	LOC ON ATT PLAN R.L.1.99	3886	- -	19.0	Adj. 17.5	1.5 WET	108.5	1.78	1.76	101.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY.												
306 3387	9.30	150	LOC ON ATT PLAN R.L.1.69	3887	- -	16.0	Adj. 15.0	1.0 WET	106.5	1.77	1.80	98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
307 3388	10.00	150	LOC ON ATT PLAN R.L.2.20	3888	- -	12.5	Adj. 13.5	1.0 DRY	92.5	1.90	1.92	99.0
Material Description: LIGHT BROWN SANDY GRAVELLY CLAY.												
308 3389	10.30	150	LOC ON ATT PLAN R.L.2.41	3889	- -	20.5	Adj. 22.5	2.0 DRY	91.0	1.69	1.65	102.5
Material Description: REDDISH-BROWN SILTY CLAY.												
309 3390	11.00	150	LOC ON ATT PLAN R.L.1.98	3390	- -	9.5	Adj. 9.5	-	100.0	2.10	2.10	100.0
Material Description: GREY-BROWN SANDY GRAVELLY CLAY.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN	R MCGRANN	



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40817
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	18/5/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
310 3437	8.30	150	LOC ON ATT PLAN R.L.2.84	3437	- -	18.5	Adj. 17.5	1.0 WET	105.5	1.73	1.74	99.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
311 3438	9.00	150	LOC ON ATT PLAN R.L.2.66	3438	- -	17.0	Adj. 18.0	1.0 DRY	94.5	1.72	1.74	99.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
312 3439	9.30	150	LOC ON ATT PLAN R.L.2.41	3439	- -	14.0	Adj. 15.5	1.5 DRY	90.5	1.82	1.81	100.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
313 3440	10.00	150	LOC ON ATT PLAN R.L.2.83	3440	- -	20.5	Adj. 23.0	2.5 DRY	89.0	1.71	1.67	102.5
Material Description: GREY-BROWN SILTY CLAY.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS			Report No.	40818
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW			Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	19/5/2016			Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
314 3460	8.00	150	LOC ON ATT PLAN R.L.3.41	3460	- -	18.0	Adj. 20.0	2.0 DRY	90.0	1.69	1.701	100.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
315 3461	8.30	150	LOC ON ATT PLAN R.L.3.08	3461	- -	16.0	Adj. 17.5	1.5 DRY	91.5	1.72	1.75	98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
316 3462	8.30	150	LOC ON ATT PLAN R.L.3.30	3462	- -	17.5	Adj. 16.5	1.0 WET	106.0	1.76	1.77	99.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
317 3463	9.00	150	LOC ON ATT PLAN R.L.3.35	3463	- -	21.5	Adj. 22.5	1.0 DRY	95.5	1.62	1.66	98.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												
318 3464	9.30	150	LOC ON ATT PLAN R.L.3.05	3465	- -	19.0	Adj. 21.5	2.5 DRY	88.5	1.72	1.69	102.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												
319 3465	10.00	150	LOC ON ATT PLAN R.L.3.52	3465	- -	20.5	Adj. 22.0	1.5 DRY	93.0	1.70	1.67	102.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40819
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	20/5/2016				Tested by	AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Dry	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
320 3472	8.30	150	LOC ON ATT PLAN R.L.7.26	3472	- -	11.5	Adj. 12.0	0.5 DRY	96.0	2.05	1.99	103.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.												
321 3473	8.30	150	LOC ON ATT PLAN R.L.7.13	3473	- -	13.5	Adj. 14.0	0.5 DRY	96.5	1.86	1.85	100.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.												
322 3474	9.00	150	LOC ON ATT PLAN R.L.6.95	3474	- -	18.5	Adj. 19.5	1.0 DRY	95.0	1.73	1.70	102.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS.												
323 3475	9.00	150	LOC ON ATT PLAN R.L.6.89	3475	- -	19.0	Adj. 22.0	3.0 DRY	86.5	1.70	1.68	101.0
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.												
324 3476	9.30	150	LOC ON ATT PLAN R.L.6.51	3476	- -	15.5	Adj. 16.5	1.0 DRY	94.0	1.78	1.76	101.0
Material Description: LIGHT YELLOW-BROWN SILTY CLAY.												
325 3477	9.30	150	LOC ON ATT PLAN R.L.6.40	3477	- -	14.5	Adj. 14.5	-	100.0	1.81	1.84	98.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN RM		Greg McGrann/Manager Approved Signatory Date: 1.8.17



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40820
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	21/5/2016				Tested by	JC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
326 3522	9.00	150	LOC ON ATT PLAN R.L.3.62	3522	-      -	15.5	Adj. 18.0	2.5 DRY	86.0	1.75	1.75	100.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
327 3523	9.30	150	LOC ON ATT PLAN R.L.3.38	3523	-      -	16.0	Adj. 16.5	0.5 DRY	97.0	1.76	1.78	99.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
328 3524	10.00	150	LOC ON ATT PLAN R.L.3.50	3524	-      -	15.5	Adj. 16.5	1.0 DRY	94.0	1.79	1.76	101.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS												
329 3525	10.30	150	LOC ON ATT PLAN R.L.3.57	3525	-      -	14.5	Adj. 13.5	1.0 WET	107.5	1.85	1.87	99.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



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# FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40821
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	23/5/2016	Tested by	JM

Field Test No Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %	
330 3529	8.00	150	LOC ON ATT PLAN R.L.3.74	3529	-	-	16.0	Adj. 16.5	0.5 DRY	97.0	1.72	Adj. 1.75	<b>98.0</b>
					Material Description: DARK BROWN SILTY SANDY CLAY								
331 3530	8.30	150	LOC ON ATT PLAN R.L.3.88	3530	-	-	10.5	Adj. 13.0	2.5 DRY	81.0	1.89	Adj. 1.86	<b>101.5</b>
					Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	
					Material Description:								
								Adj.				Adj.	

### Remarks:

## Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN 		Greg McGrann/Manager Approved Signatory Date:1.8.17 



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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS				Report No.	40822
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW				Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11&12	Date Tested	24/5/2016				Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
332 3565	9.00	150	LOC ON ATT PLAN R.L.4.13	3565	-      -	13.0	Adj. 15.5	2.5 DRY	84.0	1.81	1.82	99.5
Material Description: LIGHT REDDISH-BROWN SANDY CLAY & ROCK FRAGMENTS.												
333 3566	9.30	150	LOC ON ATT PLAN R.L.4.60	3566	-      -	15.5	Adj. 17.0	1.5 DRY	91.0	1.78	1.77	100.5
Material Description: GREY-BROWN SILTY SANDY CLAY.												
334 3567	10.00	150	LOC ON ATT PLAN R.L.4.22	3567	-      -	10.0	Adj. 13.0	3.0 DRY	77.0	1.90	1.87	101.5
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.												
335 3568	10.30	150	LOC ON ATT PLAN R.L.4.56	3568	-      -	13.5	Adj. 14.5	1.0 DRY	93.0	1.89	1.84	102.5
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.												
							Adj.				Adj.	
					Material Description:							
							Adj.				Adj.	
					Material Description:							

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	
Checked By: R MCGRANN		Greg McGrann/Manager Approved Signatory Date: 1.8.17



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	40823
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – FUTURE STAGE 11& 12	Date Tested	25/5/2016	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %
336 3593	8.00	150	LOC ON ATT PLAN R.L.4.63	3593	-      -	13.0	Adj. 14.0	1.0 DRY	93.0	1.85	1.86	99.5
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS												
337 3594	8.30	150	LOC ON ATT PLAN R.L.4.93	3594	-      -	17.0	Adj. 16.5	0.5 WET	103.0	1.82	1.76	103.5
Material Description: BROWN SILTY SANDY CLAY												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	
Material Description:												
							Adj.				Adj.	

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 1.8.17	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 1.8.17
Checked By: R MCGRANN RM		



**Brisbane Soil Testing**  
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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42573
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	09/08/2018	Tested by	JM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m³	Max. Dry Density t/m³	Dry Density Ratio %		
457 14117	10.00	120	LOT 1392 5m Front bdy, 3m Left bdy R.L.7.90	14117	-      -	15.5	Adj. 15.0	0.5 WET	103.5	1.84	1.86	99.0		
					Material Description: BROWN SILTY SANDY CLAY.									
458 14118	10.00	150	LOT 1390 3m Front bdy, 4m Right bdy R.L.7.70	14118	-      -	14.5	Adj. 12.5	2.0 WET	116.0	1.96	1.90	103.0		
					Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.									
459 14119	12.45	150	LOT 1391 4m Front bdy, 2m Right bdy R.L.8.01	14119	-      -	14.0	Adj. 14.5	0.5 DRY	96.5	1.83	1.86	98.5		
					Material Description: GREY-BROWN SILTY SANDY CLAY.									
460 14120	12.45	130	LOT 1364 3m Front bdy, 2m Left bdy R.L.7.84	14120	-      -	14.5	Adj. 15.0	0.5 DRY	96.5	1.85	1.85	100.0		
					Material Description: GREY-BROWN SILTY SANDY CLAY.									
							Adj.				Adj.			
					Material Description:									
							Adj.				Adj.			
					Material Description:									

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date25/09/2018
Checked By: R MCGRANN <i>R Mc</i>		<i>G McGrann</i>



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42575
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	14/08/2018	Tested by	JM LM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
463 14152	7.15	150	LOT 1288 7m Front bdy, 3m Left bdy R.L.7.10	14152	- -	13.0	Adj. 12.0	1.0 WET	2.09	Adj. 2.13	98.0
Material Description: YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS.											
464 14153	7.15	150	LOT 1287 9m Front bdy, 2m Right bdy R.L.7.19	14153	- -	10.0	Adj. 12.0	2.0 DRY	2.12	Adj. 2.14	99.0
Material Description: YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS.											
465 14154	7.15	150	LOT 1286 8m Front bdy, 3m Right bdy R.L.7.26	14154	- -	13.0	Adj. 15.5	2.5 DRY	1.91	Adj. 2.08	92.0
Material Description: DARK BROWN SILTY SANDY CLAY.											
466 14155	7.50	150	LOT 1285 9m Front bdy, 4m Left bdy R.L.7.40	14155	- -	16.5	Adj. 17.0	0.5 DRY	1.98	Adj. 2.08	95.0
Material Description: DARK BROWN SILTY SANDY CLAY.											
467 14156	7.50	150	LOT 1284 12m Front bdy, 2m Right bdy R.L.7.50	14156	- -	15.5	Adj. 18.5	3.0 DRY	1.93	Adj. 2.02	95.5
Material Description: DARK BROWN SILTY SANDY CLAY.											
468 14157	8.20	150	LOT 1283 10m Front bdy, 3m Right bdy R.L.7.59	14157	- -	17.5	Adj. 17.0	0.5 WET	1.98	Adj. 2.06	96.0
Material Description: DARK BROWN SILTY SANDY CLAY.											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42576
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	14/08/2018	Tested by	JM LM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
469 14158	8.20	130	LOT 1282 8m Front bdy, 3m Left bdy R.L.7.69	14158	- -	14.5	Adj. 17.5	3.0 DRY	2.00	Adj. 2.05	97.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.											
471 14160	9.30	150	LOT 1393 6m Front bdy, 3m Right bdy R.L.7.96	14160	- -	17.0	Adj. 18.0	1.0 DRY	2.08	Adj. 2.10	99.0
Material Description: DARK BROWN SILTY CLAY & ROCK FRAGMENTS.											
472 14161	10.00	150	LOT 1364 8m Front bdy, 2m Right bdy R.L.8.29	14161	- -	16.0	Adj. 16.5	0.5 DRY	2.09	Adj. 2.13	98.0
Material Description: DARK BROWN SILTY CLAY & ROCK FRAGMENTS.											
473 14162	10.30	130	LOT 1241 7m Front bdy, 3m Left bdy R.L.9.25	14162	- -	11.0	Adj. 13.5	2.5 DRY	2.12	Adj. 2.16	98.0
Material Description: DARK GREY SILTY SANDY CLAY & FINE ROCK FRAGMENTS.											
474 14163	10.30	150	LOT 1240 8m Front bdy, 3m Left bdy R.L.9.11	14163	- -	11.0	Adj. 13.5	2.5 DRY	2.17	Adj. 2.17	100.0
Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS.											
475 14164	11.45	150	LOT 1239 5m Front bdy, 2m Right bdy R.L.8.85	14164	- -	12.0	Adj. 14.5	2.5 DRY	2.00	Adj. 2.08	96.0
Material Description: GREY-BROWN SILTY SANDY CLAY.											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42578
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	14/08/2018	Tested by	JM LM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
476 14165	12.15	150	LOT 1238 8m Front bdy, 3m Right bdy R.L.8.71	14165	- -	14.0	Adj. 16.0	2.0 DRY	1.97	Adj. 1.94	<b>101.5</b>
Material Description: REDDISH-BROWN & GREY SILTY CLAY.											
477 14166	12.15	150	LOT 1237 7m Front bdy, 2m Left bdy R.L.8.60	14166	- -	13.0	Adj. 13.0	-	2.09	Adj. 2.15	<b>97.0</b>
Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS.											
478 14167	12.15	150	LOT 1236 10m Front bdy, 3m Right bdy R.L.8.55	14167	- -	16.5	Adj. 19.5	3.0 DRY	2.13	Adj. 2.08	<b>102.5</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY.											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42579
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	15/08/2018	Tested by	LM AC JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
479 14182	8.40	150	LOT 1392 11m Rear bdy, 3m Right bdy R.L.8.49	14182	- -	11.5	Adj. 12.5	1.0 DRY	2.13	Adj. 2.12	99.5
					Material Description: REDDISH-BROWN SILTY SANDY CLAY						
480 14183	8.40	140	LOT 1390 9m Rear bdy, 1m Right bdy R.L.8.35	14183	- -	13.0	Adj. 15.0	2.0 DRY	2.12	Adj. 2.07	102.5
					Material Description: REDDISH-BROWN & GREY SILTY CLAY						
481 14184	10.15	150	LOT 1393 12m Front bdy, 4m Right bdy R.L.8.40	14184	- -	13.5	Adj. 12.5	1.0 WET	2.24	Adj. 2.20	102.5
					Material Description: DARK BROWN SANDY CLAY						
482 14185	10.15	150	LOT 1391 8m Front bdy, 4m Left bdy R.L.8.70	14185	- -	13.5	Adj. 14.5	1.0 DRY	2.12	Adj. 2.15	98.5
					Material Description: DARK BROWN SANDY CLAY						
						Adj.				Adj.	
					Material Description:						
						Adj.				Adj.	
					Material Description:						

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN <i>R.McG</i>		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42580
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	20/08/2018	Tested by	LM JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
483 14246 <b>RETEST</b>	11.30	150	LOT 1286 10m Front bdy, 2m Right bdy R.L.7.24	14246	- -	18.0	Adj. 16.5	1.5 WET	2.10	Adj. 2.07	<b>101.5</b>
Material Description: REDDISH-BROWN SILTY CLAY											
484 14247	11.30	150	LOT 1248 9m Front bdy, 3m Left bdy R.L.10.21	14247	- -	16.0	Adj. 15.5	0.5 WET	2.10	Adj. 2.14	<b>98.0</b>
Material Description: REDDISH-BROWN SILTY CLAY											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	

Remarks: Test 14246 is a retest for test 14154.

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42581
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	21/08/2018	Tested by	LM GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
485 14249	7.30	140	LOT 1355 11m Rear bdy, 5m Left bdy R.L.8.10	14249	- -	18.0	Adj. 15.5	2.5 WET	2.03	Adj. 2.13	95.5
Material Description: LIGHT YELLOW-BROWN SILTY CLAY											
486 14250	8.10	150	LOT 1354 10m Rear bdy, 3m Left bdy R.L.8.09	14250	- -	15.5	Adj. 18.5	3.0 DRY	2.04	Adj. 2.04	100.0
Material Description: DARK BROWN SILTY CLAY											
487 14251	8.40	150	LOT 1352 9m Rear bdy, 2m Right bdy R.L.8.13	14251	- -	14.0	Adj. 14.5	0.5 DRY	2.10	Adj. 2.11	99.5
Material Description: DARK BROWN SILTY SANDY CLAY											
488 14252	8.00	140	LOT 1351 12m Rear bdy, 3m Right bdy R.L.8.07	14252	- -	13.5	Adj. 15.0	1.5 DRY	2.00	Adj. 2.08	96.0
Material Description: DARK BROWN SILTY SANDY CLAY											
489 14270	14.15	150	LOT 1233 10m Front bdy, 3m Left bdy R.L.7.97	14270	- -	15.0	Adj. 15.5	-	2.09	Adj. 2.14	97.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY											
490 14271	13.50	150	LOT 1232 13m Front bdy, 1m Right bdy R.L.8.01	14271	- -	15.0	Adj. 14.5	0.5 DRY	2.11	Adj. 2.12	99.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 25/09/2018

Checked By: R MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 25/09/2018



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42582
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	22/08/2018	Tested by	GMG LM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
491 14276	8.10	150	LOT 1393 13m Rear bdy, 6m Right bdy R.L.8.83	14276	- -	14.0	Adj. 13.5	0.5 WET	2.21	Adj. 2.15	103.0
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
492 14277	8.25	150	LOT 1392 10m Rear bdy, 4m Left bdy R.L.8.87	14277	- -	16.5	Adj. 15.5	1.0 WET	2.05	Adj. 2.13	96.0
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
493 14278	9.15	150	LOT 1353 14m Front bdy, 3m Right bdy R.L.8.06	14278	- -	15.0	Adj. 14.0	1.0 WET	2.11	Adj. 2.10	100.5
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
494 14279	10.00	150	LOT 1390 9m Rear bdy, 4m Left bdy R.L.8.84	14279	- -	10.5	Adj. 12.5	2.0 DRY	2.12	Adj. 2.13	99.5
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
495 14280	12.30	150	LOT 1364 11m Rear bdy, 5m Left bdy R.L.8.77	14280	- -	14.0	Adj. 15.5	1.5 DRY	2.07	Adj. 2.14	96.5
Material Description: GREY-BROWN SILTY SANDY CLAY											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42583
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	23/08/2018	Tested by	AC LM RW

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
496 14290	11.45	150	LOT 1344 13m Front bdy, 3m Left bdy R.L.7.92	14290	- -	12.0	Adj. 14.5	2.5 DRY	1.91	Adj. 2.01	95.0
Material Description: DARK BROWN SILTY SANDY CLAY.											
497 14291	11.45	150	LOT 1345 9m Front bdy, 2m Right bdy R.L.7.88	14291	- -	12.0	Adj. 15.0	3.0 DRY	1.93	Adj. 2.03	95.0
Material Description: REDDISH-BROWN SILTY CLAY.											
498 14292	12.30	150	LOT 1346 11m Rear bdy, 2m Left bdy R.L.7.93	14292	- -	12.5	Adj. 15.5	3.0 DRY	1.98	Adj. 2.03	97.5
Material Description: DARK BROWN SILTY CLAY.											
499 14293	12.30	150	LOT 1347 14m Front bdy, 3m Right bdy R.L.7.86	14293	- -	11.5	Adj. 16.0	4.5 DRY	1.80	Adj. 2.00	90.0
Material Description: GREY-BROWN SILTY CLAY.											
500 14294	12.30	140	LOT 1348 13m Rear bdy, 2m Left bdy R.L.7.96	14294	- -	14.5	Adj. 15.5	1.0 DRY	1.97	Adj. 2.06	95.5
Material Description: GREY-BROWN & RED SILTY CLAY.											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42584
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	28/08/2018	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
501 14330	15.00	150	LOT 1343 14m Front bdy, 3m Left bdy R.L.7.03	14330	- -	15.0	15.0	-	2.14	2.10	102.0
Material Description: REDDISH-BROWN & GREY SILTY CLAY											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42585
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	28/08/2018	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
502 14331	8.15	150	LOT 1341 9m Front bdy, 2m Right bdy R.L.6.67	14331	- -	22.0	Adj. 22.5	0.5 DRY	2.02	Adj. 2.00	<b>101.5</b>
503 14332	8.45	150	LOT 1339 11m Front bdy, 3m Left bdy R.L.6.58	14332	- -	20.5	Adj. 22.0	1.5 DRY	2.01	Adj. 1.98	<b>101.5</b>
							Adj.			Adj.	
					Material Description: DARK BROWN SILTY CLAY						
					Material Description: DARK BROWN SILTY CLAY						
					Material Description:						
							Adj.			Adj.	
					Material Description:						
					Material Description:						
							Adj.			Adj.	
					Material Description:						
					Material Description:						
							Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:25/09/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:25/09/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42628
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	30/08/2018	Tested by	GMG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
504 14363	8.15	130	LOT 1358 10m Front bdy, 2m Left bdy R.L.7.72	14363	- -	14.5	14.5	-	1.98	2.06	96.0
Material Description: DARK BROWN SILTY SANDY CLAY											
505 14364	8.50	130	LOT 1360 11m Front bdy, 2m Left bdy R.L.7.90	14364	- -	13.5	13.0	Adj. 0.5 WET	2.05	2.13	96.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
506 14365	9.10	150	LOT 1357 12m Front bdy, 2m Right bdy R.L.7.68	14365	- -	12.5	15.0	Adj. 2.5 DRY	2.01	2.09	96.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
507 14366	9.45	150	LOT 1362 10m Front bdy, 2m Left bdy R.L.8.43	14366	- -	12.0	14.0	Adj. 2.0 DRY	2.04	2.09	97.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
508 14367	12.00	150	LOT 1343 6m Front bdy, 2m Right bdy R.L.7.61	14367	- -	13.5	15.0	Adj. 1.5 DRY	2.08	2.13	97.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
509 14368	12.00	150	LOT 1341 7m Front bdy, 1m Left bdy R.L.7.44	14368	- -	18.5	17.5	Adj. 1.0 WET	2.05	2.05	100.0
Material Description: GREY-BROWN & RED SILTY SANDY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42629
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	30/08/2018	Tested by	GMG JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
510 14369	12.30	150	LOT 1340 5m Front bdy, 2m Left bdy R.L.7.40	14369	- -	17.5	Adj. 16.0	1.5 WET	2.11	Adj. 2.07	<b>102.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY											
511 14370	12.30	150	LOT 1339 8m Front bdy, 2m Right bdy R.L.7.29	14370	- -	15.0	Adj. 17.0	2.0 DRY	2.10	Adj. 2.04	<b>103.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY											
512 14371	13.10	150	LOT 1338 12m Front bdy, 4m Right bdy R.L.7.18	14371	- -	16.5	Adj. 15.0	1.5 WET	2.09	Adj. 2.14	<b>97.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY											
513 14372	14.00	150	LOT 1359 8m Front bdy, 2m Right bdy R.L.7.78	14372	- -	17.5	Adj. 16.5	1.0 WET	2.07	Adj. 2.07	<b>100.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY											
514 14373	14.35	150	LOT 1361 11m Front bdy, 2m Left bdy R.L.8.20	14373	- -	16.5	Adj. 18.0	1.5 DRY	2.06	Adj. 2.02	<b>102.0</b>
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018

Checked By: R MCGRANN

RMC



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date:02/10/2018



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42630
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	31/08/2018	Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
515 14395	12.45	150	LOT 1350 12m Rear bdy, 4m Left bdy R.L.7.71	14395	- -	11.5	Adj. 13.0	1.5 DRY	2.04	Adj. 2.08	98.0
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY.											
516 14396	15.15	150	LOT 1350 9m Front bdy, 2m Right bdy R.L.8.19	14396	- -	11.5	Adj. 14.0	2.5 DRY	2.07	Adj. 2.02	102.5
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY.											
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42631
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	01/09/2018	Tested by	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
517 14410	11.40	150	LOT 1260 4m Rear bdy, 2m Left bdy R.L.8.60	14410	- -	16.5	Adj. 15.5	1.0 WET	2.09	Adj. 2.06	<b>101.5</b>
Material Description: BROWN SILTY SANDY CLAY											
518 14411	12.15	150	LOT 1262 6m Rear bdy, 2m Left bdy R.L.8.38	14411	- -	13.5	Adj. 13.5	-	2.18	Adj. 2.11	<b>103.5</b>
Material Description: GREY-BROWN SANDY GRAVELLY CLAY											
519 14412	14.10	150	LOT 1261 3m Rear bdy, 3m Left bdy R.L.8.51	14412	- -	14.5	Adj. 15.0	0.5 DRY	2.05	Adj. 2.09	<b>98.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
520 14413	15.30	150	LOT 1262 11m Front bdy, 2m Left bdy R.L.8.70	14413	- -	14.0	Adj. 13.0	1.0 WET	2.13	Adj. 2.13	<b>100.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42632
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	03/09/2018	Tested by	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
521 14414	10.00	150	LOT 1259 6m Rear bdy, 2m Left bdy R.L.9.16	14414	- -	15.5	Adj. 15.0	0.5 WET	2.11	Adj. 2.08	<b>101.5</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.											
522 14415	10.30	150	LOT 1261 9m Rear bdy, 1m Left bdy R.L.8.92	14415	- -	14.5	Adj. 14.5	-	2.10	Adj. 2.13	<b>98.5</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.											
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42634
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	07/09/2018	Tested by	JM AC GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
523 14487	9.15	150	LOT 1258 7m Front bdy, 2m Right bdy R.L.9.61	14487	- -	10.5	Adj. 11.5	1.0 DRY	2.03	Adj. 2.14	95.0
Material Description: BROWN SILTY SANDY CLAY											
524 14488	9.40	150	LOT 1259 2m Rear bdy, 4m Right bdy R.L.9.69	14488	- -	16.5	Adj. 15.5	1.0 WET	2.05	Adj. 2.15	95.5
Material Description: DARK BROWN SILTY SANDY CLAY											
525 14489	10.20	150	LOT 1267 2m Rear bdy, 4m Right bdy R.L.8.92	14489	- -	16.0	Adj. 14.5	1.5 WET	2.15	Adj. 2.13	101.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
526 14490	9.30	150	LOT 1266 2m Rear bdy, 3m Left bdy R.L.8.73	14490	- -	18.5	Adj. 16.0	2.0 WET	2.17	Adj. 2.11	103.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
527 14491	9.45	150	LOT 1276 7m Rear bdy, 4m Left bdy R.L.7.40	14491	- -	12.5	Adj. 14.0	2.0 DRY	2.08	Adj. 2.14	97.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
528 14492	10.15	150	LOT 1275 9m Rear bdy, 3m Right bdy R.L.7.38	14492	- -	15.0	Adj. 16.5	1.5 DRY	2.04	Adj. 2.07	98.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42635
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	07/09/2018	Tested by	GMG AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
529 14493	11.15	150	LOT 1273 10m Front bdy, 3m Left bdy R.L.7.70	14493	- -	18.5	Adj. 19.0	0.5 DRY	2.03	Adj. 2.04	99.5
Material Description: DARK BROWN SOME GREY SILTY CLAY											
530 14494	11.00	150	LOT 1274 7m Rear bdy, 4m Left bdy R.L.7.51	14494	- -	14.5	Adj. 15.5	1.0 DRY	2.15	Adj. 2.11	102.0
Material Description: BROWN SILTY SANDY CLAY											
531 14495	12.00	150	LOT 1277 13m Front bdy, 3m Left bdy R.L.7.22	14495	- -	13.5	Adj. 15.0	1.5 DRY	2.10	Adj. 2.07	101.5
Material Description: BROWN SILTY SANDY CLAY											
532 14496	12.25	150	LOT 1272 7m Rear bdy, 2m Right bdy R.L.7.90	14496	- -	14.5	Adj. 14.5	-	2.10	Adj. 2.10	100.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY											
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42636
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	11/09/2018	Tested by	GMG LM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
533 14516	8.20	150	LOT 1247 5m Rear bdy, 2m Left bdy R.L.10.19	14516	- -	16.0	Adj. 17.5	1.5 DRY	2.06	Adj. 2.04	101.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY.											
534 14517	9.00	150	LOT 1245 4m Rear bdy, 2m Right bdy R.L.9.97	14517	- -	13.5	Adj. 15.0	1.5 DRY	2.11	Adj. 2.08	101.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.											
535 14518	11.15	150	LOT 1246 4m Front bdy, 2m Left bdy R.L.9.84	14518	- -	12.5	Adj. 14.5	2.0 DRY	2.07	Adj. 2.15	96.5
Material Description: BROWN SILTY SANDY GRAVELLY CLAY.											
536 14519	11.45	150	LOT 1244 4m Rear bdy, 3m Right bdy R.L.9.62	14519	- -	13.0	Adj. 14.5	1.5 DRY	2.05	Adj. 2.11	97.0
Material Description: BROWN SILTY SANDY GRAVELLY CLAY.											
537 14520	11.45	150	LOT 1243 5m Rear bdy, 3m Right bdy R.L.9.74	14520	- -	15.0	Adj. 16.0	1.0 DRY	2.04	Adj. 2.09	97.5
Material Description: BROWN SILTY SANDY CLAY.											
538 14521	13.50	150	LOT 1235 6m Front bdy, 1m Left bdy R.L.8.30	14521	- -	15.5	Adj. 15.0	0.5 WET	2.03	Adj. 2.11	96.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY.											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42637
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	11/09/2018	Tested by	LM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
539 14522	14.15	150	LOT 1234 7m Front bdy, 3m Right bdy R.L.8.26	14522	- -	17.0	17.0	-	2.10	2.05	102.5
Material Description: DARK BROWN SILTY SANDY CLAY.											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42638
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	12/09/2018	Tested by	AC GMG RW

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
540 14531	7.00	150	LOT 1271 12m Rear bdy, 3m Left bdy R.L.7.98	14531	- -	11.5	Adj. 14.0	2.5 DRY	2.07	Adj. 2.16	96.0
Material Description: BROWN SOME RED SILTY SANDY CLAY											
541 14532	7.00	150	LOT 1270 9m Rear bdy, 2m Right bdy R.L.8.36	14532	- -	10.5	Adj. 13.5	3.0 DRY	2.11	Adj. 2.18	97.0
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS											
542 14533	7.00	150	LOT 1269 11m Rear bdy, 4m Right bdy R.L.8.52	14533	- -	13.0	Adj. 14.0	1.0 DRY	2.11	Adj. 2.14	98.5
Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS											
543 14534	7.20	150	LOT 1268 13m Front bdy, 3m Left bdy R.L.8.54	14534	- -	16.0	Adj. 15.5	0.5 WET	2.08	Adj. 2.06	101.0
Material Description: DARK BROWN SILTY SANDY CLAY											
544 14535	7.20	150	LOT 1279 8m Rear bdy, 2m Right bdy R.L.7.65	14535	- -	20.0	Adj. 19.0	1.0 WET	2.03	Adj. 1.99	102.0
Material Description: DARK GREY-BROWN SILTY CLAY											
545 14537	8.40	150	LOT 1281 15m Front bdy, 3m Right bdy R.L.7.90	14537	- -	18.5	Adj. 18.0	0.5 WET	2.03	Adj. 2.05	99.0
Material Description: DARK BROWN SILTY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Prepared By: G MCGRANN

Date: 02/10/2018

Checked By: R MCGRANN

Greg McGrann/Manager

Approved Signatory

Date: 02/10/2018



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42639
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	12/09/2018	Tested by	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %	
546 14538	9.30	150	LOT 1280 10m Rear bdy, 3m Left bdy R.L.7.82	14538	- -	18.0	18.0	-	2.06	2.04	101.0	
					Material Description: DARK BROWN SILTY CLAY							
547 14539	10.15	150	LOT 1278 9m Front bdy, 3m Left bdy R.L.7.40	14539	- -	18.0	17.0	1.0 WET	2.05	2.06	99.5	
					Material Description: DARK BROWN SILTY CLAY							
								Adj.			Adj.	
					Material Description:							
								Adj.			Adj.	
					Material Description:							
								Adj.			Adj.	
					Material Description:							
								Adj.			Adj.	
					Material Description:							
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 02/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 02/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42686
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	13/09/2018	Tested by	AC GMG LM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
548 14564	7.40	150	LOT 1363 7m Rear bdy, 2m Left bdy R.L.8.57	14564	- -	13.5	Adj. 12.5	1.0 WET	2.23	Adj. 2.18	<b>102.0</b>
Material Description: BROWN SANDY GRAVELLY CLAY											
549 14565	8.00	150	LOT 1342 11m Rear bdy, 3m Left bdy R.L.7.47	14565	- -	13.0	Adj. 13.0	-	2.15	Adj. 2.20	<b>97.5</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
550 14567	13.30	150	LOT 1256 6m Front bdy, 2m Left bdy R.L.10.49	14567	- -	12.0	Adj. 11.0	1.0 WET	2.21	Adj. 2.23	<b>99.0</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
551 14568	13.30	150	LOT 1255 7m Front bdy, 3m Right bdy R.L.10.42	14568	- -	10.5	Adj. 10.5	-	2.25	Adj. 2.20	<b>102.0</b>
Material Description: LIGHT YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS											
552 14569	13.50	150	LOT 1254 7m Front bdy, 1m Right bdy R.L.10.34	14569	- -	14.5	Adj. 14.0	0.5 WET	2.13	Adj. 2.15	<b>99.0</b>
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS											
553 14570	13.50	150	LOT 1253 8m Front bdy, 2m Left bdy R.L.10.62	14570	- -	12.0	Adj. 12.0	-	2.15	Adj. 2.16	<b>99.5</b>
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 12/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 12/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42687
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	13/09/2018	Tested by	LM AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
554 14572	14.20	150	LOT 1274 7m Rear bdy, 3m Right bdy R.L.7.81	14572	- -	15.0	Adj. 16.0	1.0 DRY	2.12	Adj. 2.10	<b>101.0</b>
Material Description: BROWN SILTY SANDY CLAY											
555 14573	14.30	150	LOT 1349 11m Front bdy, 4m Left bdy R.L.8.10	14573	- -	13.5	Adj. 14.5	1.0 DRY	2.20	Adj. 2.08	<b>97.0</b>
Material Description: BROWN SILTY SANDY CLAY											
556 14574	15.00	150	LOT 1265 10m Rear bdy, 3m Left bdy R.L.8.49	14574	- -	15.5	Adj. 17.0	1.5 DRY	2.02	Adj. 2.08	<b>97.0</b>
Material Description: GREY-BROWN SILTY SANDY CLAY											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 12/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:12/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42688
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	14/09/2018	Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %	
557 14581	11.30	150	LOT 1263 12m Rear bdy, 3m Right bdy R.L.8.20	14581	- -	14.0	Adj. 14.5	0.5 DRY	2.08	Adj. 2.14	97.0	
					Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY.							
558 14582	11.50	150	LOT 1264 9m Rear bdy, 2m Left bdy R.L.8.24	14582	- -	11.5	Adj. 13.0	1.5 DRY	2.10	Adj. 2.18	96.5	
					Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.							
559 14583	13.15	150	LOT 1252 8m Front bdy, 3m Right bdy R.L.10.49	14583	- -	12.5	Adj. 13.5	1.0 DRY	2.08	Adj. 2.11	98.5	
					Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.							
						Adj.				Adj.		
					Material Description:							
						Adj.				Adj.		
					Material Description:							
						Adj.				Adj.		
					Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:12/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:12/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42720
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	20/09/2018	Tested by	LM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
560 14645	11.45	150	LOT 1251 8m Front bdy, 2m Right bdy R.L.10.44	14645	- -	13.5	Adj. 12.5	1.0 WET	2.21	Adj. 2.17	102.0
Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS.											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:17/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:17/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42723
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	21/09/2018	Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
561 14658	12.10	150	LOT 1254 12m Front bdy, 3m Left bdy R.L.10.82	14658	- -	13.5	Adj. 14.5	1.0 DRY	2.08	Adj. 2.12	98.0
Material Description: BROWN SILTY SANDY CLAY											
562 14659	12.30	150	LOT 1255 11m Front bdy, 2m Right bdy R.L.10.90	14659	- -	15.5	Adj. 16.5	1.0 DRY	2.05	Adj. 2.05	100.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY											
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	
					Material Description:						
							Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 17/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 17/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
ABN 50 065 093 647  
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42834
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	27/09/2018	Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
564 14752	9.00	150	LOT 1257 6m Front bdy, 3m Left bdy R.L.10.97	14752	- -	13.5	Adj. 15.0	1.5 DRY	2.09	Adj. 2.13	98.0
Material Description: LIGHT REDDISH-BROWN SANDY CLAY											
565 14753	9.45	150	LOT 1256 9m Front bdy, 2m Right bdy R.L.10.84	14753	- -	12.0	Adj. 12.5	0.5 DRY	2.10	Adj. 2.16	97.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS											
566 14754	10.30	150	LOT 1249 7m Front bdy, 3m Right bdy R.L.10.06	14754	- -	14.0	Adj. 15.5	1.5 DRY	2.04	Adj. 2.11	96.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
567 14755	11.05	150	LOT 1250 6m Front bdy, 2m Left bdy R.L.10.27	14755	- -	16.0	Adj. 17.0	1.0 DRY	2.06	Adj. 2.09	98.5
Material Description: LIGHT GREY-BROWN SILTY CLAY											
							Adj.			Adj.	
Material Description:											
							Adj.			Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 19/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 19/10/2018
Checked By: R MCGRANN RM		



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## HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.  
 ABN 50 065 093 647  
 Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42734
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 12B	Date Tested	03/10/2018	Tested by	AC

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
563 14805 <b>RETEST</b>	13.30	150	LOT 1347 11m Front bdy, 3m Right bdy R.L.7.81	14805	-      -	15.0	Adj.      17.5	2.5      DRY	2.10	Adj.      2.03	<b>103.5</b>
Material Description: DARK BROWN SILTY CLAY & ROCK FRAGMENTS.											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											
Material Description:											

Remarks: Test 14805 is a retest for test 14293.

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1,5.3.1, 5.4.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date:17/10/2018	 Accredited for compliance with ISO/IEC 17025 – Testing. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date:17/10/2018
Checked By: R MCGRANN RM		