Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536
Email. brissoil@bigpond.net.au
Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

Job No. 202128

21st of February 2022

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Kayt Scott

RE: CLAY GULLY – STAGE 2 (Revised Report)
(Revised to now include controlled fill to Basin C3)
(Allotment Fill, Road Embankment Fill, Dam Fill, Basin C3 Fill – Geotechnical Inspection & Testing)

SCOPE

Brisbane Soil Testing were commissioned by BMD Urban Pty Ltd to provide geotechnical inspection and testing of the allotment earthworks, dam fill, basin C3 fill and road embankment fill on Road 2 (CH388.485-CH660) & Road 3 (CH00-CH93.362) on the above stage division.

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
(iv) provide R.P.E.Q. Certification

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on the 9th of June 2021 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff and Steve Hackworth – The Soil Testers.

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 compactor and vibrating pad foot roller.

Ninety-Six field density tests were carried between the 22nd of June 2021 and the 16th of February 2022. These tests recorded Dry Density Ratios between 95.0% and 106.0% relative to the standard compaction test and field moisture contents within –4.0% and +2.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/3 & B194/4 (Report Nos. 46671, 46682, 46692, 46686, 46695, 46706, 46908, 47031, 47049, 47060 – 47062, 47179 – 47184, 47186, 47192 – 47195, 47200 – 47202, 47204, 47221, 47251, 47326, 47327, 47341, 47342, 47347, 47348, 47396, 47397 & 47402) provide full test data for the compaction control tests.

No fill was placed on Lots 40-49, 52-56 & 68 during our Level 1 Inspection & Testing Commission.

The location of all road embankment, dam fill and basin C3 fill tests are shown on the attached drawing number CE202 REV0 Titled “Road Fill, Dam Fill, Basin C3 Fill”.

CONCLUSION

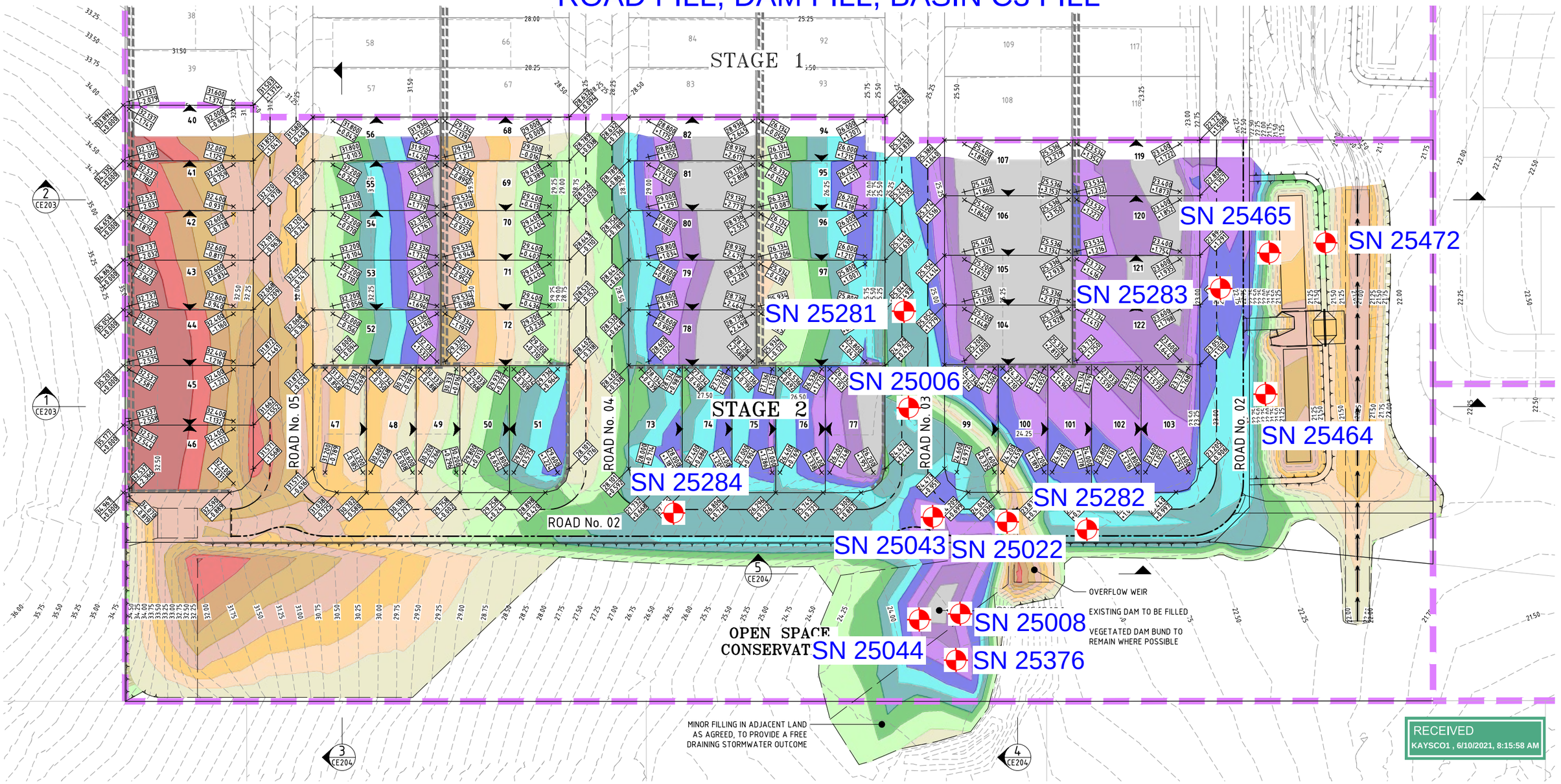
Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 & 3 of AS3798-2007 and the project specifications.

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

STEVEN HACKWORTH
THE SOILTESTERS
R.P.E.Q. No.9411

ROAD FILL, DAM FILL, BASIN C3 FILL



RECEIVED
KAYSCO1 , 6/10/2021, 8:15:58 AM

0 10 20 30 40 50m
10 7.5 5 2.5
SCALE 1:500 (A1) 1:1000 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED.

NOTE:

EARTHWORKS VOLUMES:
STAGE 1 EXTENTS:
CUT: 11,625m^3
FILL: 20,962m^3

VOLUMES HAVE NOT BEEN ADJUSTED FOR BULKING OR COMPACTION, BORROW FOR STAGE 1 COMPLETION, NOR DO THEY ALLOW FOR TRENCH SPOIL, UN-CONTROLLED FILL AREAS OR FILLING OF EXISTING DAMS. VOLUMES ARE FROM BOXING TO EXISTING SURFACE STRIPPED 100mm.

DIAL BEFORE YOU DIG www.1100.com.au

NOTE: LOCATION & LEVELS OF ALL EXISTING SERVICES AND PROPOSED STORMWATER OUTLETS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A DIAL BEFORE YOU DIG SEARCH PRIOR TO COMMENCEMENT OF WORKS. ANY POTENTIAL CONFLICT OF EXISTING SERVICES OR STORMWATER OUTLETS SHALL BE REPORTED TO THE SUPERINTENDENT.

LEGEND

- 57.50 FINISHED SURFACE CONTOURS (0.25m INTERVALS)
- LOT BOUNDARY
- TOP OF BATTER
- TOE OF BATTER
- RETAINING WALL
- OPEN CHANNEL
- BARRIER TYPE 'B1' KERB AND CHANNEL
- MOUNTABLE TYPE 'M3' KERB AND CHANNEL
- F.S.L. = FINISHED SURFACE LEVEL
  + = DEPTH OF FILL
  - = DEPTH OF CUT

EARTHWORKS DEPTH RANGE
tin EXISTING TO tin DESIGN

FILL	CUT
FILL 1.75m +	CUT 0m – 0.25m
FILL 1.5m – 1.75m	CUT 0.25m – 0.5m
FILL 1.25m – 1.5m	CUT 0.5m – 0.75m
FILL 1m – 1.25m	CUT 0.75m – 1m
FILL 0.75m – 1m	CUT 1m – 1.25m
FILL 0.5m – 0.75m	CUT 1.25m – 1.5m
FILL 0.25m – 0.5m	CUT 1.5m – 1.75m
FILL 0m – 0.25m	CUT 1.75m +

No.	Amendments	Drawn	Design	Design Chk	Appd	Date
0	ISSUED FOR CONSTRUCTION	ESS	PDW	PI	PI	29/09/21

Registered Engineer 29/9/2021 (Date) 9424 (Register)

ENGINEERING CERTIFICATION

arc ON THE POINT

Empower ENGINEERS & PROJECT MANAGERS ABN 23 010 743 692

Client: URBEX PTY LTD
Project: CLAY GULLY STAGE 2 - OPERATIONAL WORKS
Title: EARTHWORKS LEVELS PLAN

Datum: AHD
PSM 106853
RL 25.897
(LOCAL)COORD

FOR CONSTRUCTION

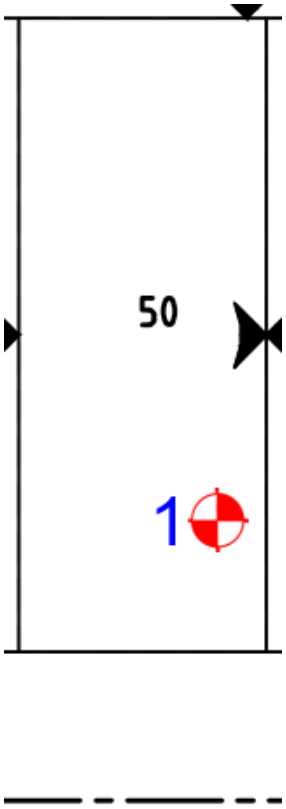
Project No. B00297 | Drawing No. CE202 | Rev 0

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of Empower Engineers and Project Managers © COPYRIGHT 2020

User: ETHAN.SCHAFER-SHR Drawing Name: C:\12d\Sdata\MANUDSYN01\B00297_30s1s COVIL_DRGS\s1 2 (CURRENT)Stage 2\B00297-ST2-EwWS
Plot Date: 29/09/2021 9:58:37 AM

DocuSign Envelope ID: 77847671-71AA-4BF5-AA62-B4753DCDAECB

EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 50



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25350)	25/01/2022	o/s 6m Front bdy, o/s 2m Right bdy F.L.	105.5

In our opinion all fill on Lot 50 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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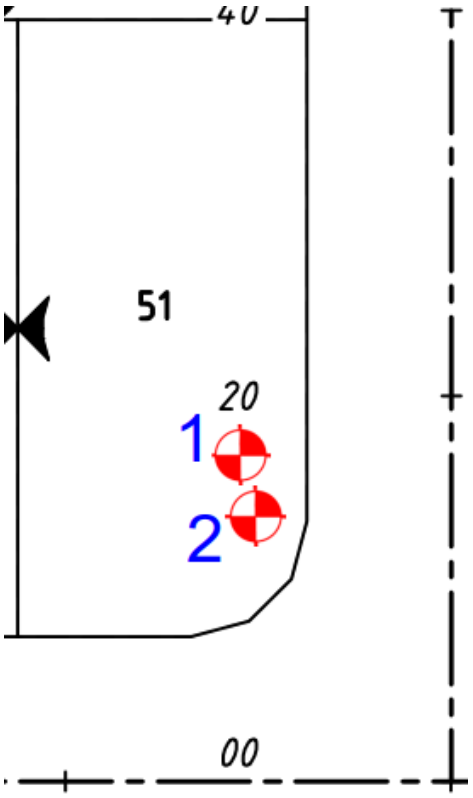
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 51



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24726)	14/09/2021	o/s 10m Front bdy, o/s 4m Right bdy	R.L. 29.00	103.0
2 (25085)	16/11/2021	o/s 7m Front bdy, o/s 2m Right bdy	R.L. 29.40	102.5

In our opinion all fill on Lot 51 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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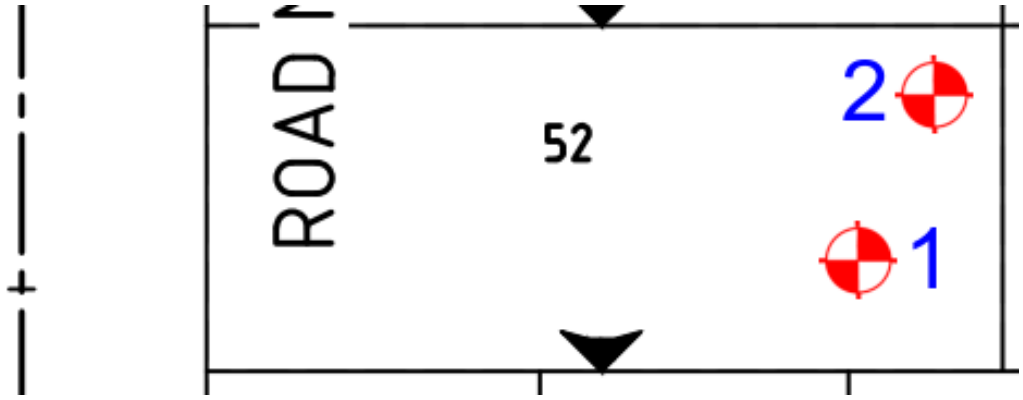
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 52



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24367)	19/08/2021	o/s 7m Rear bdy, o/s 6m Right bdy R.L. 31.26	103.0
2 (24765)	20/09/2021	o/s 3m Rear bdy, o/s 4m Left bdy R.L. 31.81	103.5

In our opinion all fill on Lot 52 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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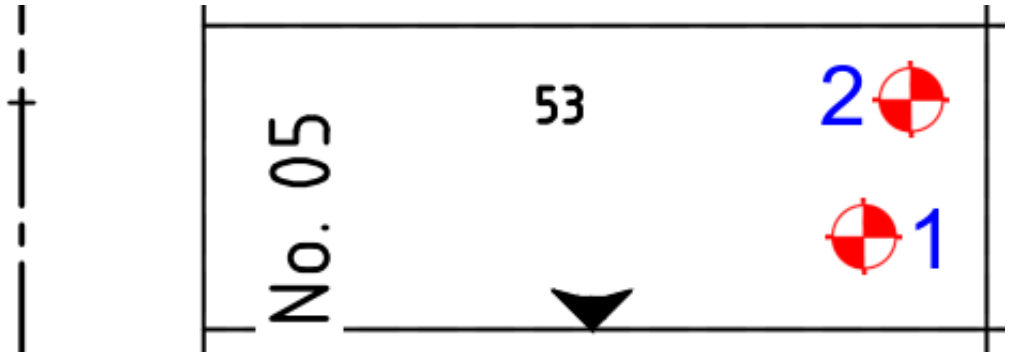
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 53



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24368)	19/08/2021	o/s 6m Rear bdy, o/s 5m Right bdy	R.L. 31.17	100.0
2 (24766)	20/09/2021	o/s 4m Rear bdy, o/s 4m Left bdy	R.L. 31.88	105.0

In our opinion all fill on Lot 53 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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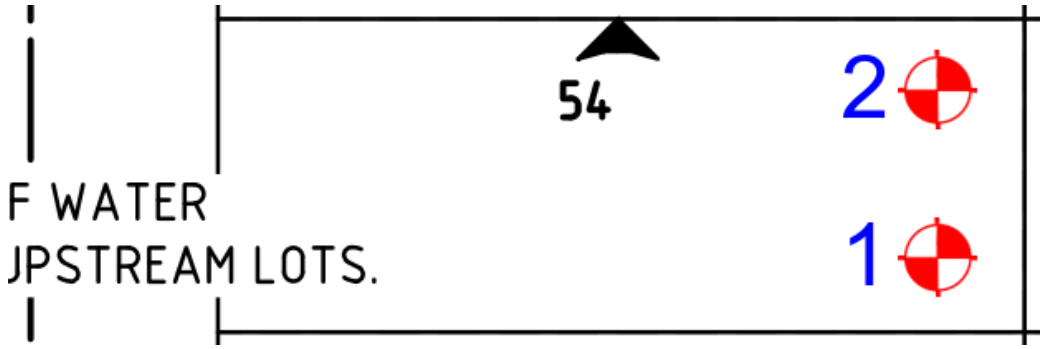
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 54



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24767)	20/09/2021	o/s 4m Rear bdy, o/s 3m Right bdy	R.L. 31.34	98.5
2 (25122)	19/11/2021	o/s 3m Rear bdy, o/s 4m Left bdy	R.L. 32.09	99.0

In our opinion all fill on Lot 54 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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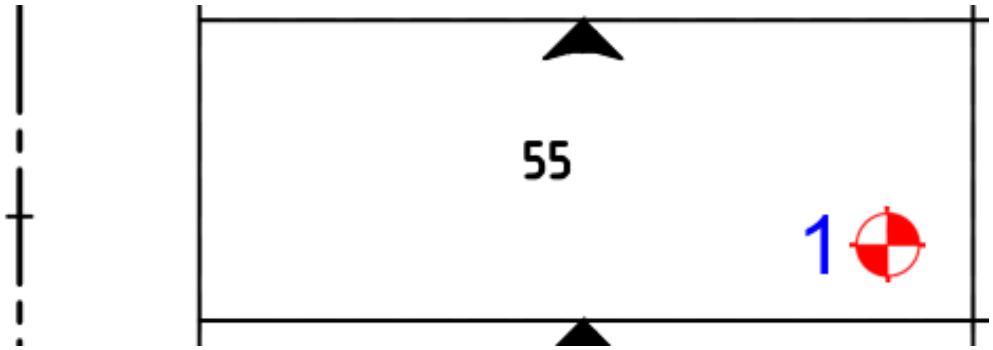
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 55



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24768)	20/09/2021	o/s 4m Rear bdy, o/s 4m Right bdy R.L. 31.52	101.5

In our opinion all fill on Lot 55 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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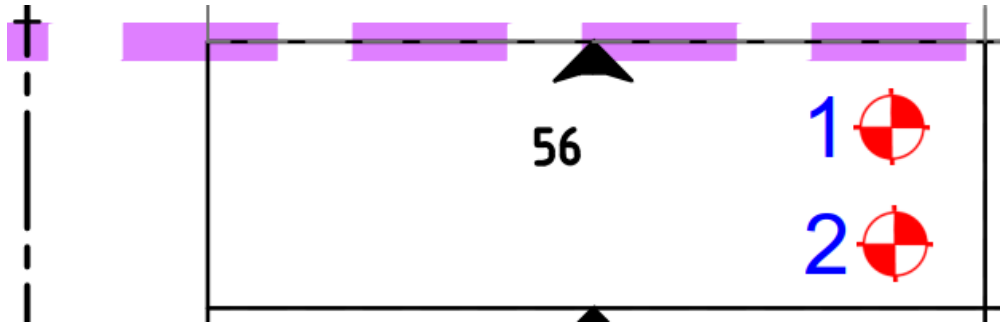
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 56



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (23874)	29/06/2021	o/s 4m Rear bdy, o/s 3m Left bdy	R.L. 30.88	99.0
2 (25121)	19/11/2021	o/s 4m Rear bdy, o/s 3m Right bdy	R.L. 31.56	105.0

In our opinion all fill on Lot 56 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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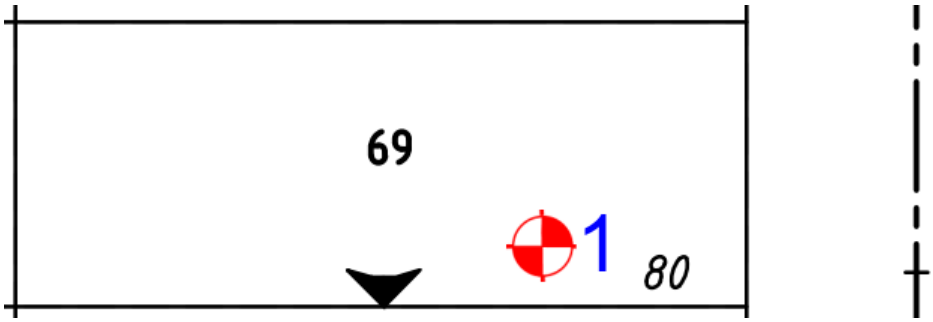
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 69



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25340)	19/01/2022	o/s 7m Front bdy, o/s 3m Left bdy R.L. 29.11	98.5

In our opinion all fill on Lot 69 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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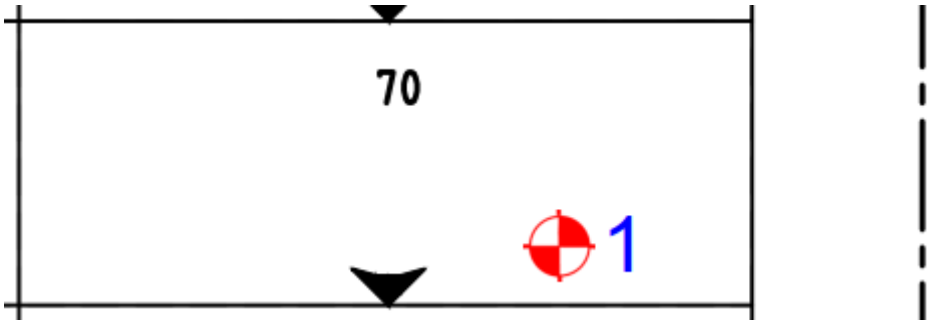
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 70



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25087)	16/11/2021	o/s 10m Front bdy, o/s 3m Left bdy R.L. 29.20	98.0

In our opinion all fill on Lot 70 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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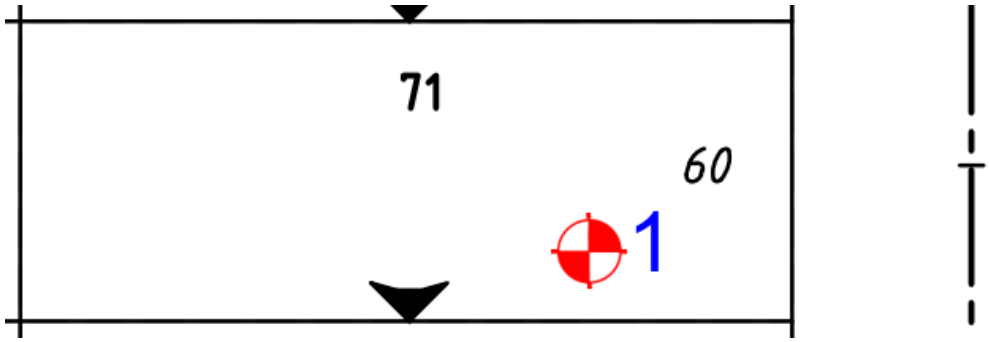
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 71



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25286)	12/01/2022	o/s 6m Front bdy, o/s 3m Left bdy R.L. 29.17	101.0

In our opinion all fill on Lot 71 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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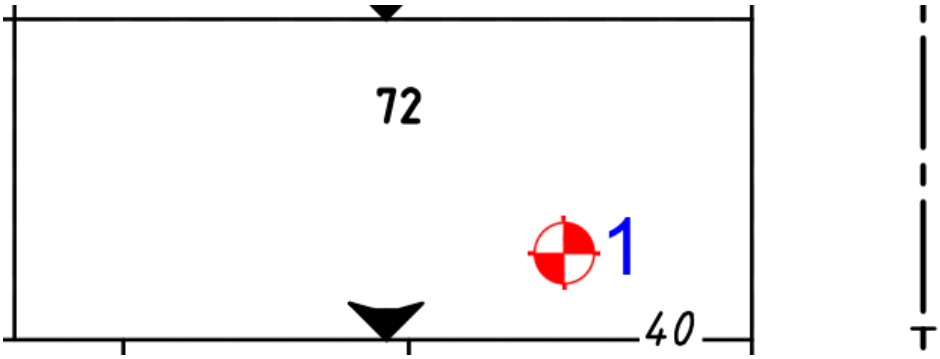
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 72



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25285)	12/01/2022	o/s 6m Front bdy, o/s 3m Left bdy R.L. 29.02	101.5

In our opinion all fill on Lot 72 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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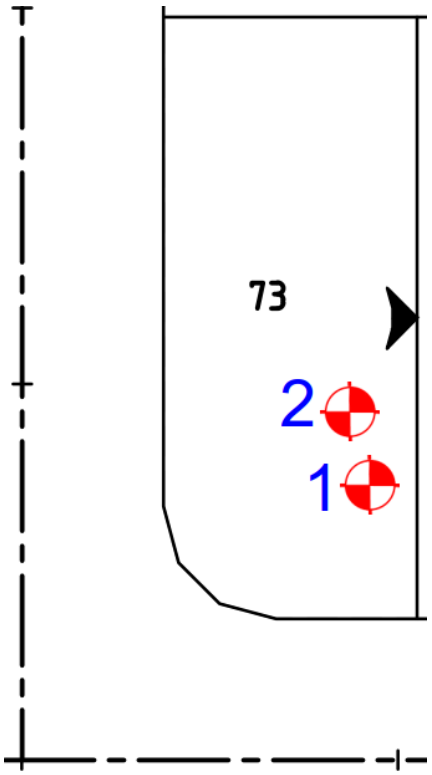
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 73



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24733)	15/09/2021	o/s 7m Front bdy, o/s 2m Right bdy	R.L. 27.27	102.5
2 (25333)	19/01/2022	o/s 9m Front bdy, o/s 4m Right bdy	R.L. 27.71	97.5

In our opinion all fill on Lot 73 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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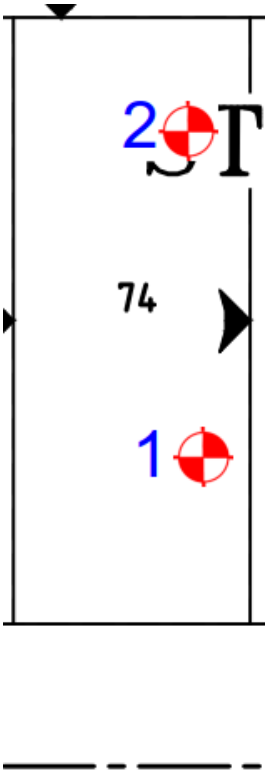
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 74



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24734)	15/09/2021	o/s 10m Front bdy, o/s 2m Right bdy	R.L. 26.69	101.0
2 (25051)	10/11/2021	o/s 7m Rear bdy, o/s 4m Right bdy	R.L. 27.19	100.0

In our opinion all fill on Lot 74 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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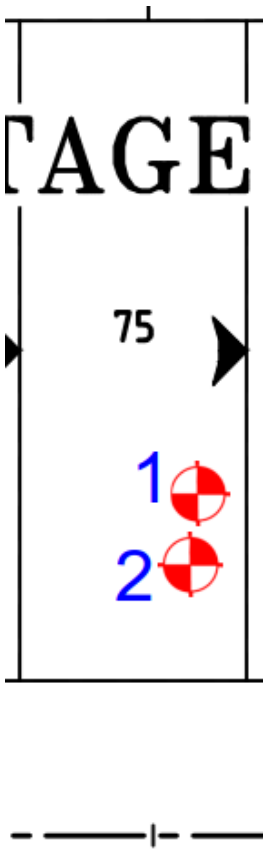
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 75



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24731)	15/09/2021	o/s 12m Front bdy, o/s 2m Right bdy	R.L. 26.39	101.0
2 (25050)	10/11/2021	o/s 9m Front bdy, o/s 3m Right bdy	R.L. 26.88	104.5

In our opinion all fill on Lot 75 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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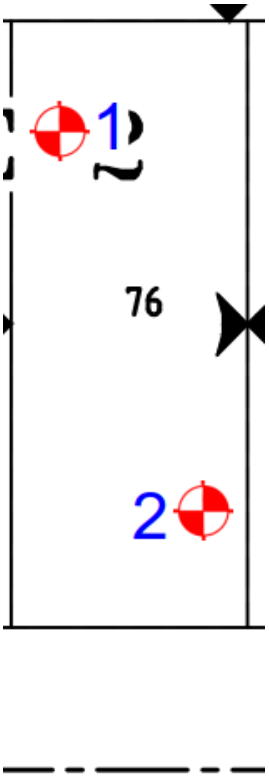
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 76



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24740)	16/09/2021	o/s 7m Rear bdy, o/s 2m Right bdy R.L. 25.65	106.5
2 (25052)	10/11/2021	o/s 8m Front bdy, o/s 3m Right bdy R.L. 26.17	104.0

In our opinion all fill on Lot 76 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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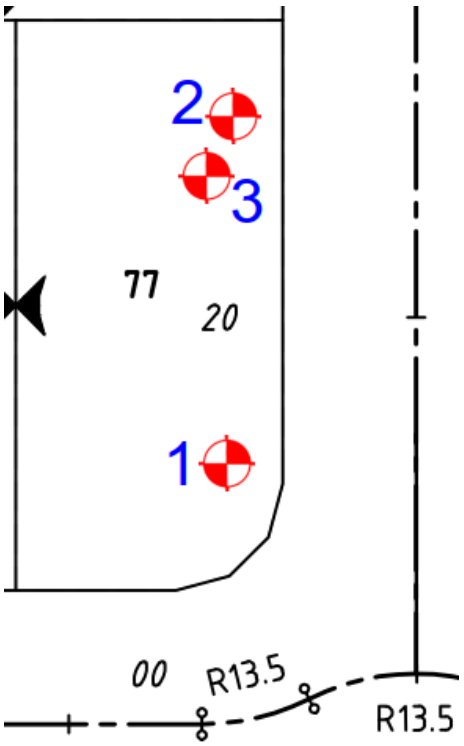
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 77



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24746A)	17/09/2021	o/s 6m Front bdy, o/s 3m Right bdy	R.L. 24.72	104.0
2 (25049)	09/11/2021	o/s 7m Rear bdy, o/s 2m Right bdy	R.L. 25.42	99.5
3 (25067)	11/11/2021	o/s 8m Rear bdy, o/s 4m Right bdy	R.L. 25.89	100.5

In our opinion all fill on Lot 77 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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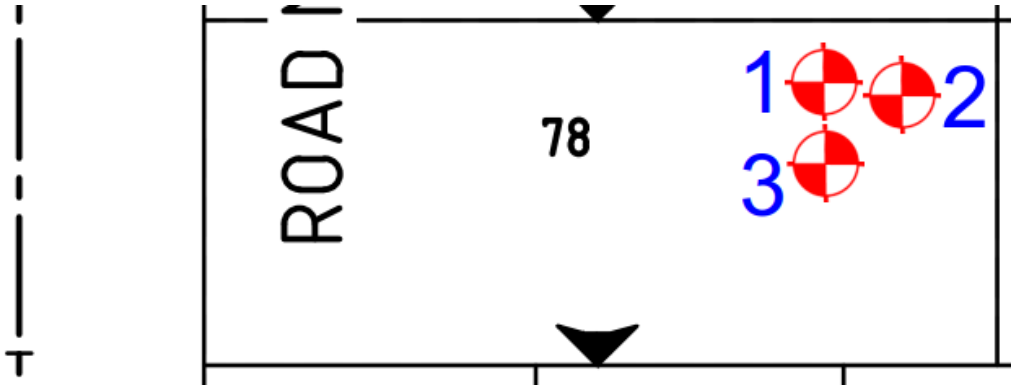
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 78



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24737)	16/09/2021	o/s 5m Rear bdy, o/s 3m Left bdy	R.L. 26.85	100.5
2 (24769)	20/09/2021	o/s 4m Rear bdy, o/s 4m Left bdy	R.L. 27.91	104.0
3 (25123)	19/11/2021	o/s 5m Rear bdy, o/s 4m Left bdy	R.L. 28.48	105.5

In our opinion all fill on Lot 78 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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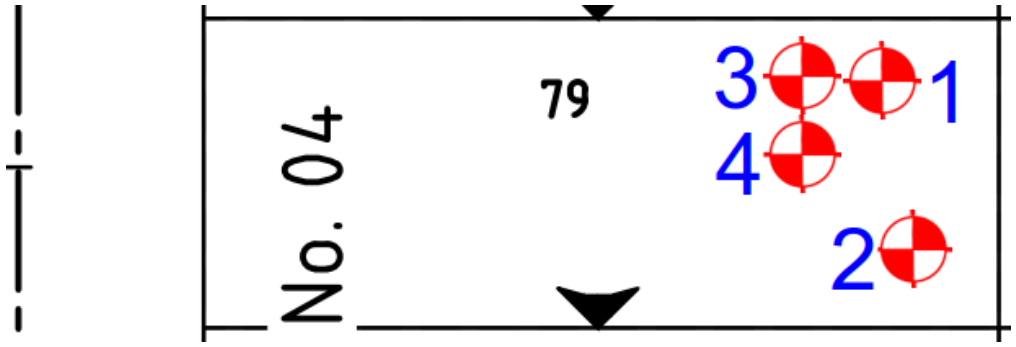
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 79



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24736)	16/09/2021	o/s 6m Rear bdy, o/s 3m Left bdy	R.L. 27.22	102.0
2 (24747A)	17/09/2021	o/s 4m Rear bdy, o/s 4m Right bdy	R.L. 27.84	105.5
3 (25059)	10/11/2021	o/s 7m Rear bdy, o/s 3m Left bdy	R.L. 27.88	101.0
4 (25334)	19/01/2022	o/s 7m Rear bdy, o/s 4m Left bdy	R.L. 28.46	97.0

In our opinion all fill on Lot 79 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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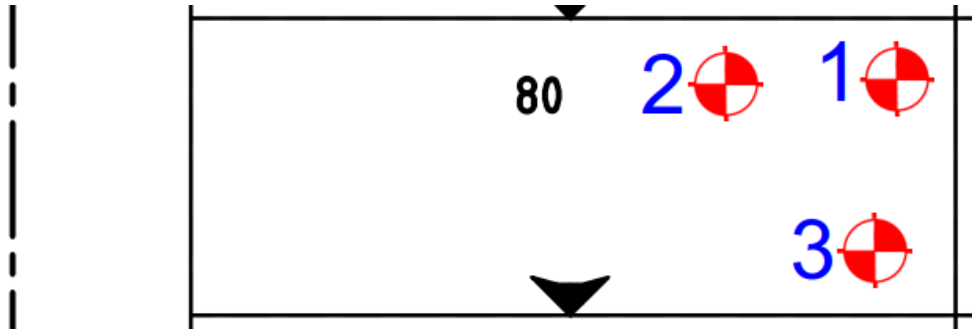
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 80



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24770)	20/09/2021	o/s 3m Rear bdy, o/s 3m Left bdy R.L. 27.35	103.5
2 (25070)	11/11/2021	o/s 10m Rear bdy, o/s 3m Left bdy R.L. 28.06	96.0
3 (25124)	19/11/2021	o/s 4m Rear bdy, o/s 3m Right bdy R.L. 28.61	101.5

In our opinion all fill on Lot 80 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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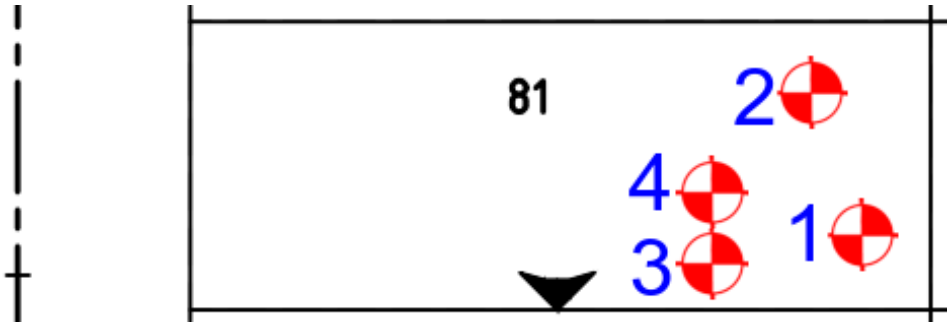
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 81



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24732)	15/09/2021	o/s 3m Rear bdy, o/s 3m Right bdy	R.L. 26.98	97.0
2 (24735)	16/09/2021	o/s 6m Rear bdy, o/s 4m Left bdy	R.L. 27.84	101.5
3 (25071)	11/11/2021	o/s 8m Rear bdy, o/s 2m Right bdy	R.L. 28.22	98.5
4 (25335)	19/01/2022	o/s 8m Rear bdy, o/s 3m Right bdy	R.L. 28.80	97.5

In our opinion all fill on Lot 81 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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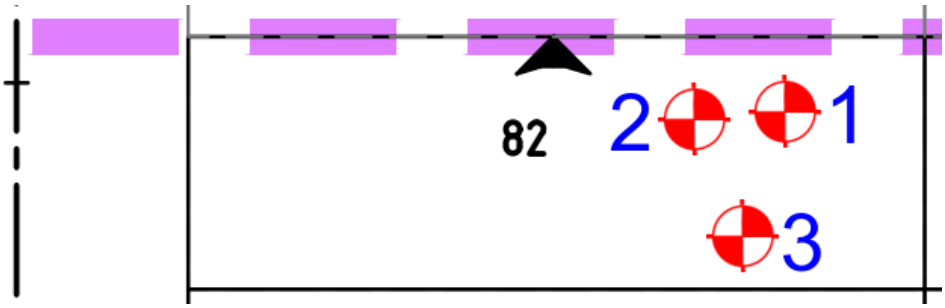
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 82



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (23856)	28/06/2021	o/s 7m Rear bdy, o/s 2m Left bdy	R.L. 27.17	96.5
2 (23873)	29/06/2021	o/s 10m Rear bdy, o/s 4m Left bdy	R.L. 28.02	99.5
3 (25336)	19/01/2022	o/s 6m Rear bdy, o/s 2m Right bdy	R.L. 28.63	100.0

In our opinion all fill on Lot 82 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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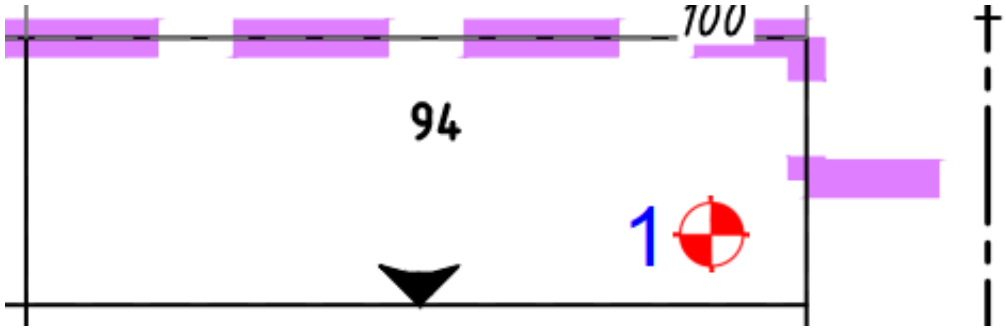
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 94



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24750A)	17/09/2021	o/s 4m Front bdy, o/s 3m Left bdy	R.L. 25.72	105.5

In our opinion all fill on Lot 94 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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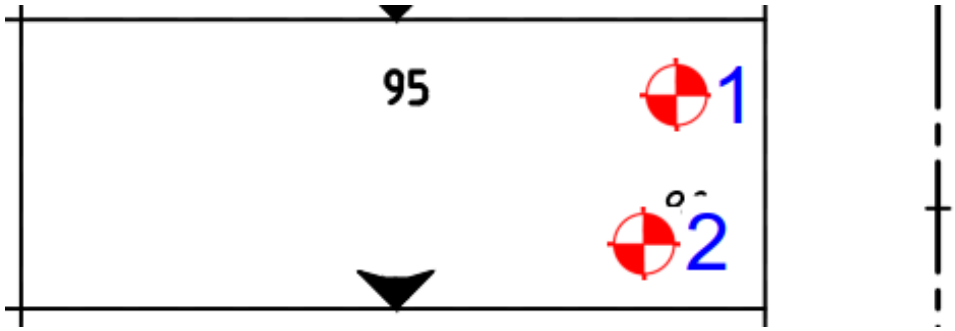
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 95



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24739)	16/09/2021	o/s 4m Front bdy, o/s 3m Right bdy	R.L. 25.53	98.5
2 (25053)	10/11/2021	o/s 5m Front bdy, o/s 2m Left bdy	R.L. 26.02	106.0

In our opinion all fill on Lot 95 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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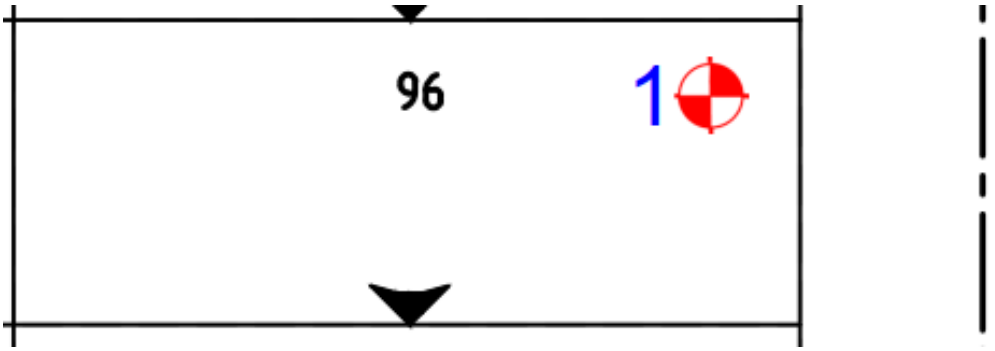
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 96



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24749A)	17/09/2021	o/s 4m Front bdy, o/s 3m Right bdy	R.L. 25.78	104.5

In our opinion all fill on Lot 96 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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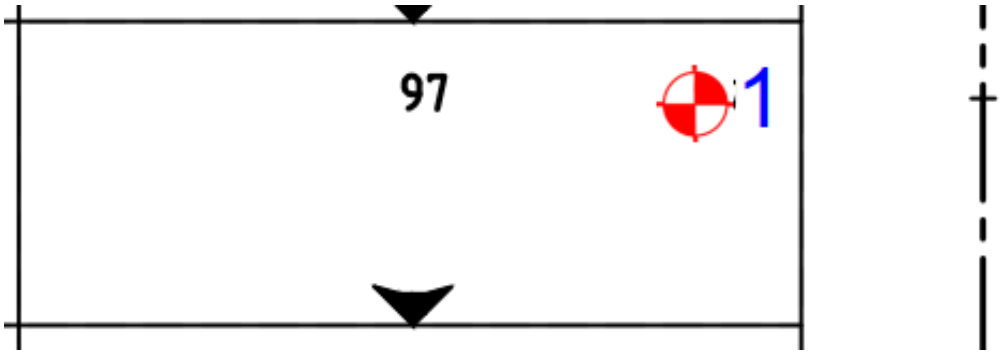
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 97



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24738)	16/09/2021	o/s 4m Front bdy, o/s 3m Right bdy	R.L. 25.76	102.0

In our opinion all fill on Lot 97 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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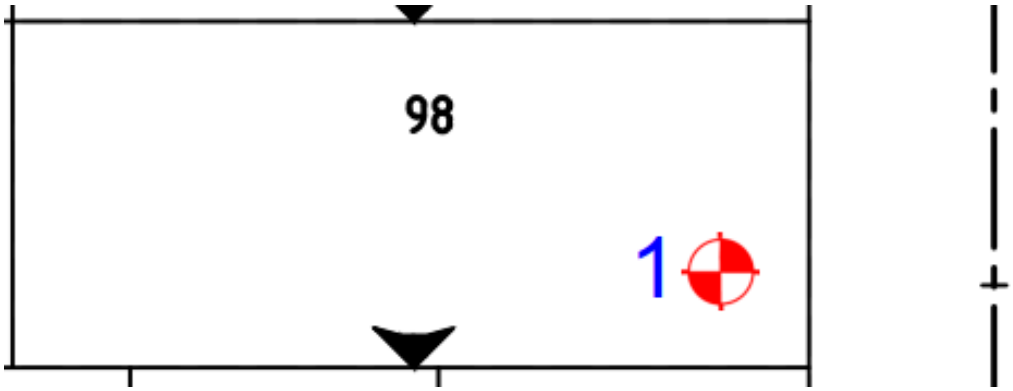
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 98



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24748A)	17/09/2021	o/s 3m Front bdy, o/s 4m Left bdy	R.L. 25.67	98.5

In our opinion all fill on Lot 98 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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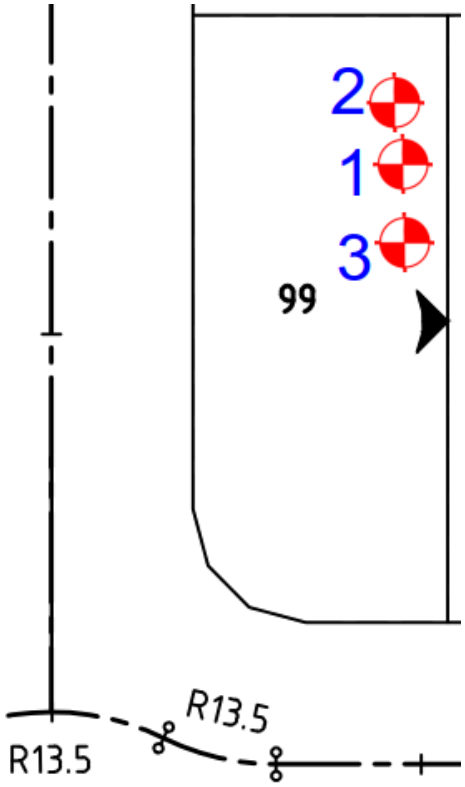
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 99



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25007)	03/11/2021	o/s 7m Rear bdy, o/s 3m Right bdy	R.L. 23.49	101.5
2 (25021)	04/11/2021	o/s 6m Rear bdy, o/s 4m Right bdy	R.L. 24.05	95.0
3 (25339)	19/01/2022	o/s 11m Rear bdy, o/s 3m Right bdy	R.L. 24.51	99.5

In our opinion all fill on Lot 99 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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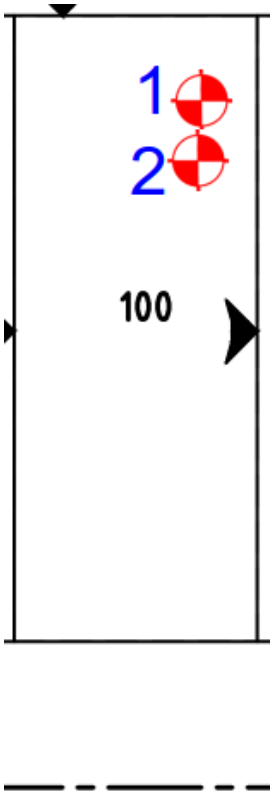
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 100



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25037)	05/11/2021	o/s 6m Rear bdy, o/s 3m Right bdy	R.L. 23.84	95.0
2 (25084)	16/11/2021	o/s 7m Rear bdy, o/s 4m Right bdy	R.L. 24.10	98.0

In our opinion all fill on Lot 100 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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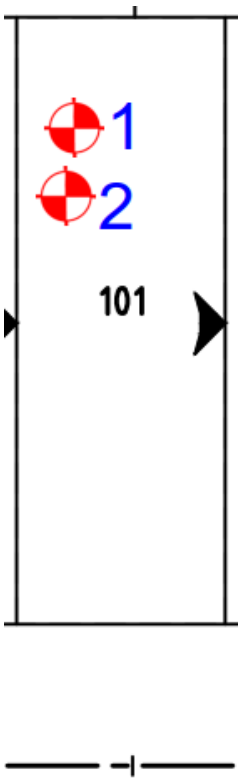
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 101



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25057)	10/11/2021	o/s 7m Rear bdy, o/s 4m Left bdy	R.L. 23.24	101.0
2 (25338)	19/01/2022	o/s 10m Rear bdy, o/s 3m Left bdy	R.L. 23.87	100.0

In our opinion all fill on Lot 101 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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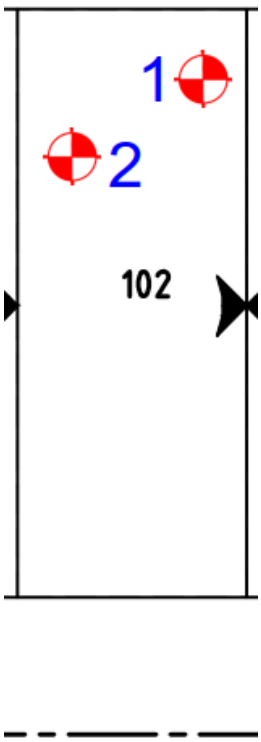
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 102



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25058)	10/11/2021	o/s 4m Rear bdy, o/s 2m Right bdy	R.L. 22.98	98.0
2 (25337)	19/01/2022	o/s 9m Rear bdy, o/s 4m Left bdy	R.L. 23.60	98.0

In our opinion all fill on Lot 102 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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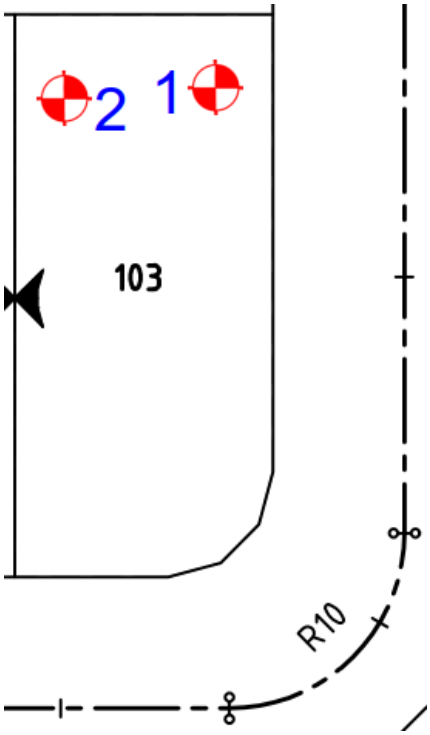
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 103



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25036)	05/11/2021	o/s 5m Rear bdy, o/s 4m Right bdy	R.L. 22.86	96.5
2 (25083)	16/11/2021	o/s 6m Rear bdy, o/s 4m Left bdy	R.L. 23.49	101.0

In our opinion all fill on Lot 103 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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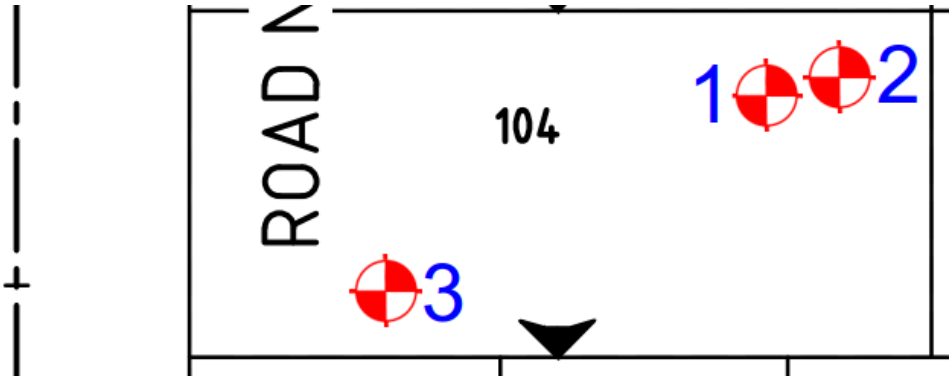
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 104



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25020)	04/11/2021	o/s 7m Rear bdy, o/s 4m Left bdy	R.L. 23.12	96.5
2 (25048)	09/11/2021	o/s 5m Rear bdy, o/s 3m Left bdy	R.L. 24.03	97.0
3 (25056)	10/11/2021	o/s 9m Front bdy, o/s 3m Right bdy	R.L. 24.75	105.5

In our opinion all fill on Lot 104 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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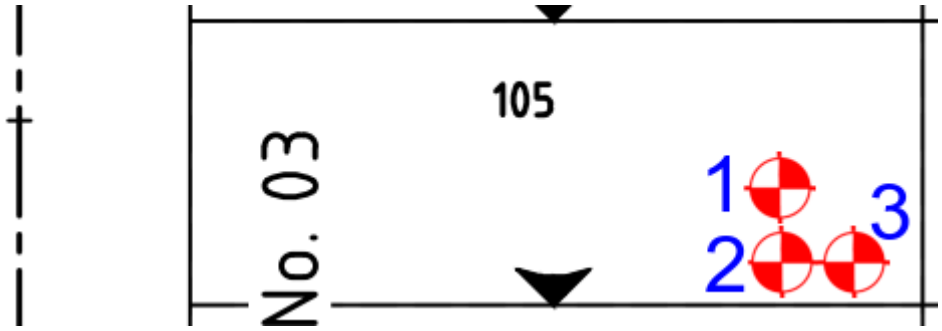
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 105



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25019)	04/11/2021	o/s 6m Rear bdy, o/s 5m Right bdy	R.L. 23.71	95.5
2 (25055)	10/11/2021	o/s 6m Rear bdy, o/s 3m Right bdy	R.L. 24.60	104.0
3 (25066)	11/11/2021	o/s 4m Rear bdy, o/s 3m Right bdy	R.L. 25.13	98.5

In our opinion all fill on Lot 105 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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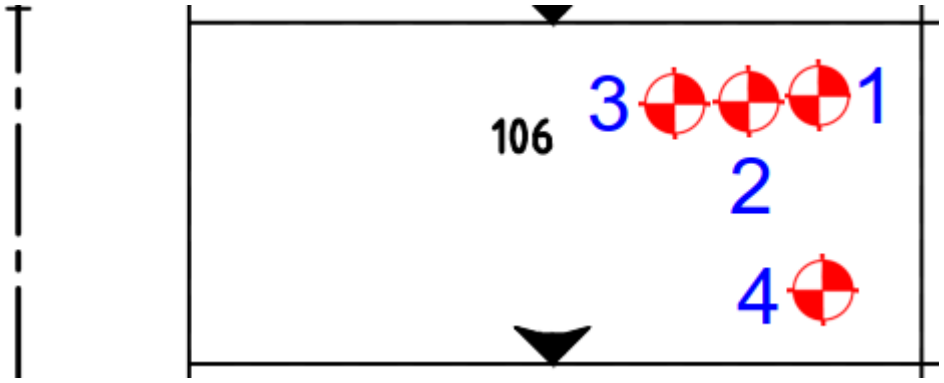
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 106



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25032)	05/11/2021	o/s 6m Rear bdy, o/s 3m Left bdy	R.L. 23.34	97.5
2 (25038)	06/11/2021	o/s 8m Rear bdy, o/s 4m Left bdy	R.L. 24.22	100.0
3 (25054)	10/11/2021	o/s 9m Rear bdy, o/s 4m Left bdy	R.L. 24.80	102.0
4 (25065)	11/11/2021	o/s 5m Rear bdy, o/s 6m Right bdy	R.L. 25.30	97.0

In our opinion all fill on Lot 106 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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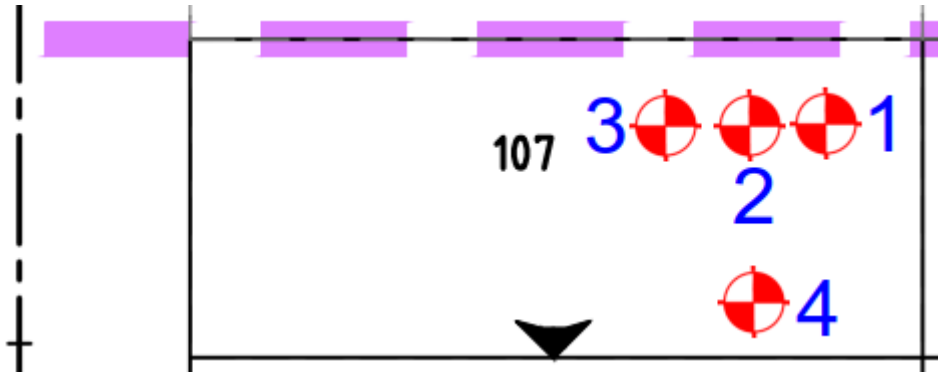
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 107



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (23824)	23/06/2021	o/s 5m Rear bdy, o/s 3m Left bdy	R.L. 23.17	100.5
2 (23835)	24/06/2021	o/s 6m Rear bdy, o/s 3m Left bdy	R.L. 24.08	96.5
3 (23842)	25/06/2021	o/s 9m Rear bdy, o/s 4m Left bdy	R.L. 24.88	98.5
4 (25064)	11/11/2021	o/s 6m Rear bdy, o/s 3m Right bdy	R.L. 25.32	99.0

In our opinion all fill on Lot 107 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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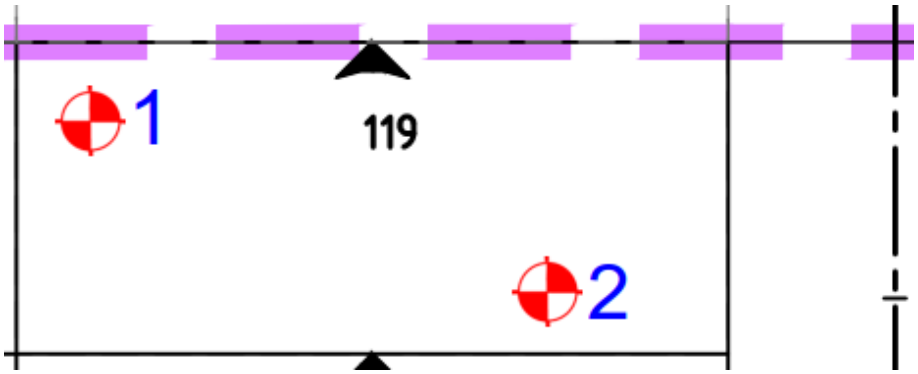
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 119



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (23806)	22/06/2021	o/s 4m Rear bdy, o/s 3m Right bdy	R.L. 22.59	103.5
2 (25072)	11/11/2021	o/s 7m Front bdy, o/s 3m Left bdy	R.L. 23.10	98.5

In our opinion all fill on Lot 119 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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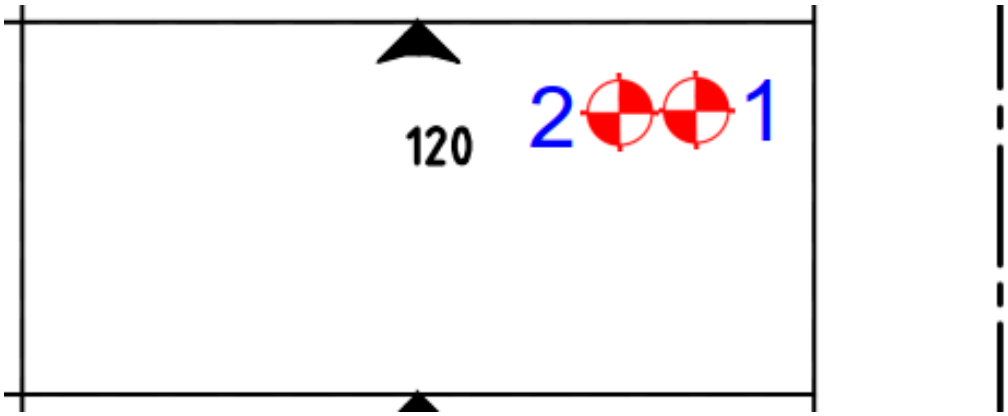
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 120



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25039)	06/11/2021	o/s 6m Front bdy, o/s 4m Right bdy	R.L. 22.70	98.0
2 (25042)	06/11/2021	o/s 8m Front bdy, o/s 4m Right bdy	R.L. 23.24	100.0

In our opinion all fill on Lot 120 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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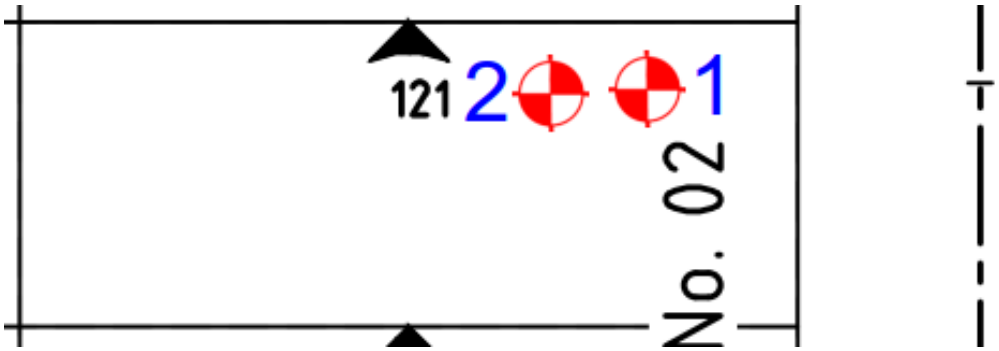
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 121



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25033)	05/11/2021	o/s 7m Front bdy, o/s 2m Right bdy	R.L. 22.62	99.0
2 (25047)	09/11/2021	o/s 9m Front bdy, o/s 4m Right bdy	R.L. 23.31	95.5

In our opinion all fill on Lot 121 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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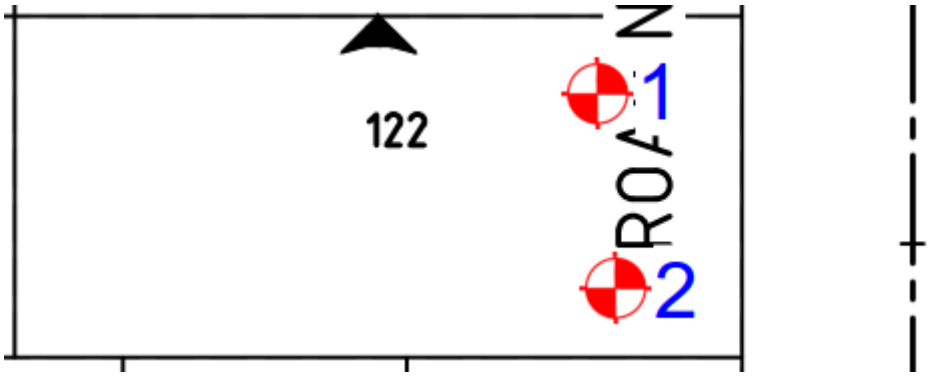
EARTHWORKS SUMMARY REPORT
CLAY GULLY – STAGE 2
LOT 122



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (25045)	06/11/2021	o/s 7m Front bdy, o/s 4m Right bdy R.L. 22.75	98.5
2 (25073)	11/11/2021	o/s 6m Front bdy, o/s 4m Left bdy R.L. 23.33	99.0

In our opinion all fill on Lot 122 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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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46671
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	22/06/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23806	8:30	150	LOT 119 4m Rear bdy, 3m Right bdy R.L. 22.59	23806	-	18.5	19.5	~~Adj.~~ 1.0 DRY	2.08	~~Adj.~~ 2.01	**103.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 24/06/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 24/06/2021

Brisbane Soil Testing
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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46682
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	23/06/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23824	7:15	150	LOT 107 5m Rear bdy, 3m Left bdy R.L. 23.17	23824	-	26.5	25.5	~~Adj.~~ 1.0 WET	2.00	~~Adj.~~ 1.99	**100.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks: **Re-issue of Report No. 46675 (Depth of Test Amended)**

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 28/06/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 28/06/2021

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46692
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	24/06/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23835	13:50	150	LOT 107 6m Rear bdy, 3m Left bdy R.L. 24.08	23835	-	23.5	22.5	~~Adj.~~ 1.0 WET	1.93	~~Adj.~~ 2.00	**96.5**
				Material Description: REDDISH GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 30/06/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 30/06/2021

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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46686
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	25/06/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23842	11:30	150	LOT 107 9m Rear bdy, 4m Left bdy R.L. 24.88	23842	-	22.0	21.0	~~Adj.~~ 1.0 WET	1.99	~~Adj.~~ 2.02	**98.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 30/06/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 30/06/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46695
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	28/06/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23856	14:00	150	LOT 82 7m Rear bdy, 2m Left bdy R.L. 27.17	23856	-	23.0	22.5	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 2.02	**96.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 30/06/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 30/06/2021

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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46706
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – FUTURE STAGE 2	Date Tested	29/06/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
23873	11:30	150	LOT 82 10m Rear bdy, 4m Left bdy R.L. 28.02	23873	-	22.0	22.0	~~Adj.~~ -	2.00	~~Adj.~~ 2.01	**99.5**
				Material Description: REDDISH BROWN SILTY CLAY							
23874	14:00	150	LOT 56 4m Rear bdy, 3m Left bdy R.L. 30.88	23874	-	22.0	21.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.04	**99.0**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
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								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/07/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 08/07/2021

Brisbane Soil Testing
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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46908
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	19/08/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24367	13:30	150	LOT 52 7m Rear bdy, 6m Right bdy R.L. 31.26	24367	-	18.0	19.5	~~Adj.~~ 1.5 DRY	2.00	~~Adj.~~ 1.94	**103.0**
				Material Description: GREY BROWN SILTY CLAY & ROCK FRAGMENTS							
24368	14:00	150	LOT 53 6m Rear bdy, 5m Right bdy R.L. 31.17	24368	-	20.0	22.5	~~Adj.~~ 2.5 DRY	1.94	~~Adj.~~ 1.94	**100.0**
				Material Description: REDDISH GREY & BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 13/09/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
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Date: 13/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47031
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	14/09/2021	Tested by	RW

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24726	13:30	150	LOT 51 10m Front bdy, 4m Right bdy R.L. 29.00	24726	-	21.0	22.0	~~Adj.~~ 1.0 DRY	2.01	~~Adj.~~ 1.95	**103.0**
				Material Description: BROWN GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/09/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
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Date: 16/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47049
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	15/09/2021	Tested by	RW AC

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24731	10:00	150	LOT 75 12m Front bdy, 2m Right bdy R.L. 26.39	24731	-	20.0	21.0	~~Adj.~~ 1.0 DRY	1.96	~~Adj.~~ 1.94	**101.0**
				Material Description: REDDISH BROWN SILTY CLAY							
24732	10:20	150	LOT 81 3m Rear bdy, 3m Right bdy R.L. 26.98	24732	-	22.0	23.0	~~Adj.~~ 1.0 DRY	1.90	~~Adj.~~ 1.96	**97.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
24733	13:00	150	LOT 73 7m Front bdy, 2m Right bdy R.L. 27.27	24733	-	19.0	20.0	~~Adj.~~ 1.0 DRY	2.09	~~Adj.~~ 2.04	**102.5**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
24734	13:30	150	LOT 74 10m Front bdy, 2m Right bdy R.L. 26.69	24734	-	23.0	24.0	~~Adj.~~ 1.0 DRY	1.97	~~Adj.~~ 1.95	**101.0**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 21/09/2021

Checked By: *G MCGRANN*

NATA
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Accreditation No.2415

Greg McGrann/Manager
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Date: 21/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47060
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	16/09/2021	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24735	7:30	150	LOT 81 6m Rear bdy, 4m Left bdy R.L. 27.84	24735	-	22.0	23.5	~~Adj.~~ 1.5 DRY	1.98	~~Adj.~~ 1.95	**101.5**
				Material Description: GREY BROWN SILTY CLAY							
24736	8:00	150	LOT 79 6m Rear bdy, 3m Left bdy R.L. 27.22	24736	-	19.5	20.5	~~Adj.~~ 1.0 DRY	2.04	~~Adj.~~ 2.00	**102.0**
				Material Description: BROWN SILTY CLAY							
24737	10:00	150	LOT 78 5m Rear bdy, 3m Left bdy R.L. 26.85	24737	-	23.5	24.5	~~Adj.~~ 1.0 DRY	1.97	~~Adj.~~ 1.96	**100.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
24738	10:30	150	LOT 97 4m Front bdy, 3m Right bdy R.L. 25.76	24738	-	17.5	18.0	~~Adj.~~ 0.5 DRY	2.10	~~Adj.~~ 2.06	**102.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
24739	13:00	150	LOT 95 4m Front bdy, 3m Right bdy R.L. 25.53	24739	-	17.5	19.5	~~Adj.~~ 2.0 DRY	1.92	~~Adj.~~ 1.95	**98.5**
				Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS							
24740	13:30	150	LOT 76 7m Rear bdy, 2m Right bdy R.L. 25.65	24740	-	20.0	21.0	~~Adj.~~ 1.0 DRY	2.08	~~Adj.~~ 1.95	**106.5**
				Material Description: REDDISH BROWN SILTY CLAY							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 23/09/2021

Checked By: *G MCGRANN*

NATA
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Greg McGrann/Manager
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Date: 23/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47061
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	17/09/2021	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24746A	7:30	150	LOT 77 6m Front bdy, 3m Right bdy R.L. 24.72	24746A	-	13.0	15.0	~~Adj.~~ 2.0 DRY	2.07	~~Adj.~~ 1.99	**104.0**
				Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS							
24747A	8:00	150	LOT 79 4m Rear bdy, 4m Right bdy R.L. 27.84	24747A	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.07	~~Adj.~~ 1.96	**105.5**
				Material Description: BROWN SILTY CLAY							
24748A	10:00	150	LOT 98 3m Front bdy, 4m Left bdy R.L. 25.67	24748A	-	19.5	19.0	~~Adj.~~ 0.5 WET	2.02	~~Adj.~~ 2.05	**98.5**
				Material Description: BROWN SILTY SANDY CLAY							
24749A	10:30	150	LOT 96 4m Front bdy, 3m Right bdy R.L. 25.78	24749A	-	17.0	19.5	~~Adj.~~ 2.5 DRY	2.08	~~Adj.~~ 1.99	**104.5**
				Material Description: REDDISH BROWN SILTY CLAY							
24750A	13:00	150	LOT 94 4m Front bdy, 3m Left bdy R.L. 25.72	24750A	-	16.0	15.5	~~Adj.~~ 0.5 WET	2.14	~~Adj.~~ 2.03	**105.5**
				Material Description: DARK BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 23/09/2021

Checked By: *G MCGRANN*

NATA
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Accreditation No.2415

Greg McGrann/Manager
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Date: 23/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47062
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	20/09/2021	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
24765	8:00	150	LOT 52 3m Rear bdy, 4m Left bdy R.L. 31.81	24765	-	15.5	19.5	~~Adj.~~ 4.0 DRY	1.98	~~Adj.~~ 1.91	**103.5**
				Material Description: GREY BROWN SILTY CLAY & ROCK FRAGMENTS							
24766	8:30	150	LOT 53 4m Rear bdy, 4m Left bdy R.L. 31.88	24766	-	17.5	21.0	~~Adj.~~ 3.5 DRY	2.03	~~Adj.~~ 1.93	**105.0**
				Material Description: GREY BROWN SILTY CLAY							
24767	10:00	150	LOT 54 4m Rear bdy, 3m Right bdy R.L. 31.34	24767	-	16.0	19.0	~~Adj.~~ 3.0 DRY	1.98	~~Adj.~~ 2.01	**98.5**
				Material Description: GREY BROWN SILTY CLAY & ROCK FRAGMENTS							
24768	10:30	150	LOT 55 4m Rear bdy, 4m Right bdy R.L. 31.52	24768	-	31.0	32.0	~~Adj.~~ 1.0 DRY	1.94	~~Adj.~~ 1.91	**101.5**
				Material Description: BROWN SILTY CLAY							
24769	13:00	150	LOT 78 4m Rear bdy, 4m Left bdy R.L. 27.91	24769	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.02	~~Adj.~~ 1.94	**104.0**
				Material Description: REDDISH BROWN CLAY							
24770	13:30	150	LOT 80 3m Rear bdy, 3m Left bdy R.L. 27.35	24770	-	18.0	21.0	~~Adj.~~ 3.0 DRY	2.04	~~Adj.~~ 1.97	**103.5**
				Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 23/09/2021

Checked By: *G MCGRANN*

NATA
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Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 23/09/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ROAD FILL	Report No.	47179
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	03/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25006	10:00	150	ROAD 3 o/s 1.6m L CH25 R.L. 23.07	25006	-	23.0	24.0	~~Adj.~~ 1.0 DRY	2.00	~~Adj.~~ 1.96	**102.0**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/11/2021

Checked By: *G MCGRANN*

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Accreditation No.2415

Greg McGrann/Manager
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Date: 08/11/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47180
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	03/11/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25007	10:30	150	LOT 99 7m Rear bdy, 3m Right bdy R.L. 23.49	25007	-	21.5	22.0	~~Adj.~~ 0.5 DRY	2.06	~~Adj.~~ 2.03	**101.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	DAM FILL	Report No.	47181
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	03/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25008	11:30	150	EXISTING DAM LOC ON ATT PLAN R.L. 22.41	25008	-	21.0	23.5	~~Adj.~~ 2.5 DRY	1.98	~~Adj.~~ 2.01	**98.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/11/2021

Checked By: *G MCGRANN*

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Accreditation No.2415

Greg McGrann/Manager
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Date: 08/11/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47182
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	04/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25019	7:30	150	LOT 105 6m Rear bdy, 5m Right bdy R.L. 23.71	25019	-	14.5	13.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.14	**95.5**
				Material Description: BROWN GREY SILTY CLAY							
25020	8:00	150	LOT 104 7m Rear bdy, 4m Left bdy R.L. 23.12	25020	-	19.0	19.5	~~Adj.~~ 0.5 DRY	1.97	~~Adj.~~ 2.04	**96.5**
				Material Description: BROWN GREY SILTY CLAY							
25021	9:00	150	LOT 99 6m Rear bdy, 4m Right bdy R.L. 24.05	25021	-	18.5	16.0	~~Adj.~~ 2.5 WET	1.99	~~Adj.~~ 2.09	**95.0**
				Material Description: BROWN GREY SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/11/2021

Checked By: *G MCGRANN*

NATA
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Accreditation No.2415

Greg McGrann/Manager
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Date: 08/11/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ROAD FILL	Report No.	47183
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	04/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25022	13:30	150	ROAD 2 o/s 1.2m R CH538 R.L. 22.94	25022	-	21.0	20.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 2.03	**96.0**
				Material Description: REDDISH GREY & BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 08/11/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 08/11/2021

Brisbane Soil Testing
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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47184
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	05/11/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25032	10:00	150	LOT 106 6m Rear bdy, 3m Left bdy R.L. 23.34	25032	-	22.0	20.5	~~Adj.~~ 1.5 WET	2.00	~~Adj.~~ 2.05	**97.5**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
25033	10:30	150	LOT 121 7m Front bdy, 2m Right bdy R.L. 22.62	25033	-	22.5	21.5	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
25036	13:30	150	LOT 103 5m Rear bdy, 4m Right bdy R.L. 22.86	25036	-	19.0	18.5	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 2.06	**96.5**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
25037	14:00	150	LOT 100 6m Rear bdy, 3m Right bdy R.L. 23.84	25037	-	21.5	20.5	~~Adj.~~ 1.0 WET	1.94	~~Adj.~~ 2.04	**95.0**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 09/11/2021

Checked By: *G MCGRANN*

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Date: 09/11/2021

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47186
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	06/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25038	9:00	150	LOT 106 8m Rear bdy, 4m Left bdy R.L. 24.22	25038	-	24.5	23.5	~~Adj.~~ 1.0 WET	1.97	~~Adj.~~ 1.97	**100.0**
				Material Description: LIGHT BROWN GREY SILTY CLAY							
25039	9:30	150	LOT 120 6m Front bdy, 4m Right bdy R.L. 22.70	25039	-	17.0	17.0	~~Adj.~~ -	1.99	~~Adj.~~ 2.03	**98.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 09/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47192
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	06/11/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25042	10:05	150	LOT 120 8m Front bdy, 4m Right bdy R.L. 23.24	25042	-	22.0	22.5	~~Adj.~~ 0.5 DRY	1.99	~~Adj.~~ 1.99	**100.0**
				Material Description: REDDISH BROWN SILTY CLAY							
25045	11:40	150	LOT 122 7m Front bdy, 4m Right bdy R.L. 22.75	25045	-	23.0	23.5	~~Adj.~~ 0.5 DRY	1.95	~~Adj.~~ 1.98	**98.5**
				Material Description: LIGHT GREY BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 11/11/2021

Checked By: *G MCGRANN*

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Accreditation No.2415

Greg McGrann/Manager
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Date: 11/11/2021

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ROAD FILL	Report No.	47193
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	06/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25043	10:40	150	ROAD 2 o/s 1.0m L CH554 R.L. 23.27	25043	-	20.5	21.0	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.01	**101.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 11/11/2021

Checked By: *G MCGRANN*

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Accreditation No.2415

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Approved Signatory
Date: 11/11/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	DAM FILL	Report No.	47194
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	06/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25044	11:15	150	EXISTING DAM LOC ON ATT PLAN R.L. 23.13	25044	-	22.0	24.0	~~Adj.~~ 2.0 DRY	1.93	~~Adj.~~ 1.99	**97.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 11/11/2021

Checked By: *G MCGRANN*

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Greg McGrann/Manager
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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47195
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	09/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25047	9:30	150	LOT 121 9m Front bdy, 4m Right bdy R.L. 23.31	25047	-	18.5	19.0	~~Adj.~~ 0.5 DRY	1.93	~~Adj.~~ 2.02	**95.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
25048	10:00	150	LOT 104 5m Rear bdy, 3m Left bdy R.L. 24.03	25048	-	21.0	22.0	~~Adj.~~ 1.0 DRY	1.97	~~Adj.~~ 2.03	**97.0**
				Material Description: REDDISH BROWN SILTY CLAY							
25049	10:30	150	LOT 77 7m Rear bdy, 2m Right bdy R.L. 25.42	25049	-	17.5	18.5	~~Adj.~~ 1.0 DRY	2.08	~~Adj.~~ 2.09	**99.5**
				Material Description: REDDISH BROWN & GREY SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 11/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47200
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	10/11/2021	Tested by	JM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25050	7:30	150	LOT 75 9m Front bdy, 3m Right bdy R.L. 26.88	25050	-	20.0	21.5	~~Adj.~~ 1.5 DRY	2.08	~~Adj.~~ 1.99	**104.5**
			Material Description: LIGHT GREY BROWN SILTY CLAY								
25051	8:00	150	LOT 74 7m Rear bdy, 4m Right bdy R.L. 27.19	25051	-	17.5	18.5	~~Adj.~~ 1.0 DRY	2.06	~~Adj.~~ 2.06	**100.0**
			Material Description: BROWN SILTY SANDY CLAY								
25052	8:30	150	LOT 76 8m Front bdy, 3m Right bdy R.L. 26.17	25052	-	12.5	13.5	~~Adj.~~ 1.0 DRY	2.15	~~Adj.~~ 2.07	**104.0**
			Material Description: GREY SILTY SANDY CLAY								
25053	9:00	150	LOT 95 5m Front bdy, 2m Left bdy R.L. 26.02	25053	-	14.0	15.0	~~Adj.~~ 1.0 DRY	2.17	~~Adj.~~ 2.05	**106.0**
			Material Description: BROWN SILTY SANDY CLAY								
25054	9:30	150	LOT 106 9m Rear bdy, 4m Left bdy R.L. 24.80	25054	-	16.0	16.0	~~Adj.~~ -	2.12	~~Adj.~~ 2.08	**102.0**
			Material Description: LIGHT GREY BROWN SILTY SANDY CLAY								
25055	10:30	150	LOT 105 6m Rear bdy, 3m Right bdy R.L. 24.60	25055	-	18.0	19.0	~~Adj.~~ 1.0 DRY	2.11	~~Adj.~~ 2.03	**104.0**
			Material Description: LIGHT GREY BROWN SILTY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/11/2021

Checked By: *G MCGRANN*

NATA
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Date: 16/11/2021

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47201
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	10/11/2021	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25056	11:00	150	LOT 104 9m Front bdy, 3m Right bdy R.L. 24.75	25056	-	16.0	17.5	~~Adj.~~ 1.5 DRY	2.12	~~Adj.~~ 2.01	**105.5**
				Material Description: LIGHT GREY BROWN SILTY SANDY CLAY							
25057	12:30	150	LOT 101 7m Rear bdy, 4m Left bdy R.L. 23.24	25057	-	16.5	16.0	~~Adj.~~ 0.5 WET	2.11	~~Adj.~~ 2.09	**101.0**
				Material Description: LIGHT BROWN SILTY SANDY CLAY							
25058	13:00	150	LOT 102 4m Rear bdy, 2m Right bdy R.L. 22.98	25058	-	16.5	15.5	~~Adj.~~ 1.0 WET	2.07	~~Adj.~~ 2.11	**98.0**
				Material Description: GREY BROWN SILTY SANDY CLAY							
25059	13:30	150	LOT 79 7m Rear bdy, 3m Left bdy R.L. 27.88	25059	-	15.0	16.0	~~Adj.~~ 1.0 DRY	2.12	~~Adj.~~ 2.10	**101.0**
				Material Description: BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47202
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	11/11/2021	Tested by	JM LM

Field Test Nº Sample Nº	Time of Test	Depth of Test Mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25064	9:40	150	LOT 107 6m Rear bdy, 3m Right bdy R.L. 25.32	25064	-	15.5	16.5	~~Adj.~~ 1.0 DRY	2.11	~~Adj.~~ 2.13	**99.0**
				Material Description: BROWN SILTY SANDY CLAY							
25065	9:40	150	LOT 106 5m Rear bdy, 6m Right bdy R.L. 25.30	25065	-	14.5	13.5	~~Adj.~~ 1.0 WET	2.09	~~Adj.~~ 2.15	**97.0**
				Material Description: BROWN SILTY SANDY CLAY							
25066	10:00	150	LOT 105 4m Rear bdy, 3m Right bdy R.L. 25.13	25066	-	17.0	16.5	~~Adj.~~ 0.5 WET	2.08	~~Adj.~~ 2.11	**98.5**
				Material Description: LIGHT GREY BROWN SILTY SANDY CLAY							
25067	10:00	150	LOT 77 8m Rear bdy, 4m Right bdy R.L. 25.89	25067	-	16.0	15.5	~~Adj.~~ 0.5 WET	2.09	~~Adj.~~ 2.08	**100.5**
				Material Description: REDDISH BROWN & GREY SILTY SANDY CLAY							
25070	11:00	150	LOT 80 10m Rear bdy, 3m Left bdy R.L. 28.06	25070	-	14.0	14.0	~~Adj.~~ -	2.09	~~Adj.~~ 2.18	**96.0**
				Material Description: BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS							
25071	11:00	150	LOT 81 8m Rear bdy, 2m Right bdy R.L. 28.22	25071	-	15.0	15.5	~~Adj.~~ 0.5 DRY	2.12	~~Adj.~~ 2.15	**98.5**
				Material Description: BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47204
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	11/11/2021	Tested by	JM LM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25072	11:40	150	LOT 119 7m Front bdy, 3m Left bdy R.L. 23.10	25072	-	17.5	16.5	~~Adj.~~ 1.0 WET	2.03	~~Adj.~~ 2.06	**98.5**
				Material Description: BROWN SILTY SANDY CLAY							
25073	11:40	150	LOT 122 6m Front bdy, 4m Left bdy R.L. 23.33	25073	-	15.5	16.0	~~Adj.~~ 0.5 DRY	2.09	~~Adj.~~ 2.11	**99.0**
				Material Description: REDDISH BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/11/2021

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 16/11/2021

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47221
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	16/11/2021	Tested by	AC JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25083	9:30	150	LOT 103 6m Rear bdy, 4m Left bdy R.L. 23.49	25083	-	16.0	15.5	~~Adj.~~ 0.5 WET	2.17	~~Adj.~~ 2.15	**101.0**
				Material Description: BROWN SILTY CLAY							
25084	9:30	150	LOT 100 7m Rear bdy, 4m Right bdy R.L. 24.10	25084	-	21.5	21.0	~~Adj.~~ 0.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: LIGHT BROWN CLAY & ROCK FRAGMENTS							
25085	10:00	150	LOT 51 7m Front bdy, 2m Right bdy R.L. 29.40	25085	-	17.5	18.5	~~Adj.~~ 1.0 DRY	2.06	~~Adj.~~ 2.01	**102.5**
				Material Description: BROWN SILTY CLAY							
25087	10:45	150	LOT 70 10m Front bdy, 3m Left bdy R.L. 29.20	25087	-	16.5	16.0	~~Adj.~~ 0.5 WET	2.09	~~Adj.~~ 2.13	**98.0**
				Material Description: LIGHT BROWN GREY SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 18/11/2021

Checked By: *G MCGRANN*

NATA
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Accreditation No.2415

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47251
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	19/11/2021	Tested by	AC

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25121	8:20	150	LOT 56 4m Rear bdy, 3m Right bdy R.L. 31.56	25121	-	13.5	14.0	~~Adj.~~ 0.5 DRY	2.26	~~Adj.~~ 2.15	**105.0**
				Material Description: LIGHT GREY BROWN SILTY SANDY CLAY							
25122	9:00	150	LOT 54 3m Rear bdy, 4m Left bdy R.L. 32.09	25122	-	13.0	14.0	~~Adj.~~ 1.0 DRY	2.09	~~Adj.~~ 2.11	**99.0**
				Material Description: REDDISH BROWN & GREY SILTY SANDY CLAY							
25123	9:30	150	LOT 78 5m Rear bdy, 4m Left bdy R.L. 28.48	25123	-	11.5	11.5	~~Adj.~~ -	2.26	~~Adj.~~ 2.14	**105.5**
				Material Description: DARK GREY SILTY SAND							
25124	10:00	150	LOT 80 4m Rear bdy, 3m Right bdy R.L. 28.61	25124	-	12.0	10.5	~~Adj.~~ 1.5 WET	2.19	~~Adj.~~ 2.16	**101.5**
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 24/11/2021

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ROADWORKS	Report No.	47326
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	12/01/2022	Tested by	AC LM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25281	7:45	150	ROAD 3 o/s 1.3m L CH52 SUBGRADE	25281	-	13.0	15.5	~~Adj.~~ 2.5 DRY	2.16	~~Adj.~~ 2.05	**105.5**
				Material Description: REDDISH GREY & BROWN SILTY CLAY							
25282	8:15	150	ROAD 2 o/s 2.0m L CH518 SUBGRADE	25282	-	14.5	16.5	~~Adj.~~ 2.0 DRY	2.19	~~Adj.~~ 2.09	**105.0**
				Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS							
25283	8:45	150	ROAD 2 o/s 1.5m R CH424 SUBGRADE	25283	-	12.0	14.0	~~Adj.~~ 2.0 DRY	2.14	~~Adj.~~ 2.09	**102.5**
				Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS							
25284	9:15	150	ROAD 2 o/s 1.8m R CH622 SUBGRADE	25284	-	19.0	20.5	~~Adj.~~ 1.5 DRY	2.10	~~Adj.~~ 2.01	**104.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 100% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 17/01/2022

Checked By: *G MCGRANN*

NATA
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Date: 17/01/2022

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47327
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	12/01/2022	Tested by	AC LM

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25285	9:45	150	LOT 72 6m Front bdy, 3m Left bdy R.L. 29.02	25285	-	17.0	17.5	~~Adj.~~ 0.5 DRY	2.10	~~Adj.~~ 2.07	**101.5**
				Material Description: GREY BROWN SILTY CLAY							
25286	9:15	150	LOT 71 6m Front bdy, 3m Left bdy R.L. 29.17	25286	-	17.0	16.5	~~Adj.~~ 0.5 WET	2.09	~~Adj.~~ 2.07	**101.0**
				Material Description: GREY BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 17/01/2022

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47341
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	19/01/2022	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25333	7:30	150	LOT 73 9m Front bdy, 4m Right bdy R.L. 27.71	25333	-	13.5	14.5	~~Adj.~~ 1.0 DRY	2.03	~~Adj.~~ 2.08	**97.5**
			Material Description: BROWN SILTY SANDY CLAY								
25334	8:00	150	LOT 79 o/s 7m Rear bdy, 4m Left bdy R.L. 28.46	25334	-	14.0	15.0	~~Adj.~~ 1.0 DRY	2.04	~~Adj.~~ 2.10	**97.0**
			Material Description: LIGHT BROWN SILTY SANDY CLAY								
25335	8:30	150	LOT 81 8m Rear bdy, 3m Right bdy R.L. 28.80	25335	-	12.0	13.5	~~Adj.~~ 1.5 DRY	2.08	~~Adj.~~ 2.13	**97.5**
			Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS								
25336	9:00	150	LOT 82 6m Rear bdy, 2m Right bdy R.L. 28.63	25336	-	15.0	16.0	~~Adj.~~ 1.0 DRY	2.07	~~Adj.~~ 2.07	**100.0**
			Material Description: GREY BROWN SILTY SANDY CLAY								
25337	9:30	150	LOT 102 9m Rear bdy, 4m Left bdy R.L. 23.60	25337	-	13.0	15.0	~~Adj.~~ 2.0 DRY	2.06	~~Adj.~~ 2.10	**98.0**
			Material Description: LIGHT BROWN SILTY SANDY CLAY								
25338	10:00	150	LOT 101 10m Rear bdy, 3m Left bdy R.L. 23.87	25338	-	15.5	16.5	~~Adj.~~ 1.0 DRY	2.07	~~Adj.~~ 2.07	**100.0**
			Material Description: GREY BROWN SILTY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 21/01/2022

Checked By: *G MCGRANN*

NATA
Accredited for compliance with ISO/IEC 17025 – Testing.
Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 21/01/2022

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47342
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	19/01/2022	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25339	10:30	150	LOT 99 11m Rear bdy, 3m Right bdy R.L. 24.51	25339	-	13.0	15.0	~~Adj.~~ 2.0 DRY	2.07	~~Adj.~~ 2.08	**99.5**
				Material Description: LIGHT BROWN SILTY CLAY							
25340	11:00	150	LOT 69 7m Front bdy, 3m Left bdy R.L. 29.11	25340	-	14.0	14.5	~~Adj.~~ 0.5 DRY	2.10	~~Adj.~~ 2.13	**98.5**
				Material Description: LIGHT BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 21/01/2022

Checked By: *G MCGRANN*

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47347
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	25/01/2022	Tested by	AC

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25350	9:10	150	LOT 50 6m Front bdy, 2m Right bdy F.L.	25350	-	16.5	17.0	~~Adj.~~ 0.5 DRY	2.18	~~Adj.~~ 2.07	**105.5**
				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.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 28/01/2022

Checked By: *G MCGRANN*

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Accreditation No.2415

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Date: 28/01/2022

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	DAM FILL	Report No.	47348
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	27/01/2022	Tested by	AC

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25376	9:45	150	EXISTING DAM LOC ON ATT PLAN R.L. 23.70	25376	-	13.5	15.0	~~Adj.~~ 1.5 DRY	2.07	~~Adj.~~ 2.08	**99.5**
				Material Description: BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 28/01/2022

Checked By: *G MCGRANN*

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Date: 28/01/2022

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BASIN BACKFILL	Report No.	47396
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	14/02/2022	Tested by	AC

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25464	9:45	130	BASIN C3 LOC ON ATT PLAN R.L. 21.72	25464	-	10.5	12.0	~~Adj.~~ 1.5 DRY	2.13	~~Adj.~~ 2.07	**103.0**
				Material Description: BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/02/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 16/02/2022

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BASIN BACKFILL	Report No.	47397
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	15/02/2022	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25465	10:00	150	BASIN C3 LOC ON ATT PLAN R.L. 20.65	25465	-	18.0	19.0	~~Adj.~~ 1.0 DRY	2.13	~~Adj.~~ 2.14	**99.5**
				Material Description: DARK BROWN SILTY SANDY CLAY & ROCK FRAGMENTS							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 16/02/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 16/02/2022

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BASIN BACKFILL	Report No.	47402
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202128
Project	CLAY GULLY – STAGE 2	Date Tested	16/02/2022	Tested by	AC

Field Test N^o Sample N^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m^3	Peak Converted Wet Density t/m^3	Hilf Density Ratio %
25472	9:30	150	BASIN C3 LOC ON ATT PLAN R.L. 21.22	25472	-	9.5	11.0	~~Adj.~~ 1.5 DRY	2.08	~~Adj.~~ 2.14	**97.0**
				Material Description: DARK BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: *G MCGRANN*
Date: 18/02/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 18/02/2022

LABORATORY CBR

Customer BMD Urban Pty Ltd
Address PO Box 197, Wynnum Central Qld 4178
Project Clay Gully – Stage 2

Job No. 202128
Report No. 47283
Date Sampled/~~Del~~ 29/11/2021
Date Tested 06/12/2021 **Ckd by**

Sampling details AS1141.3.1 (8.4.3/~~10.1~~) **Laboratory Testing Procedures** AS1289.2.1.1,6.1.1

SAMPLE No.	25137			
SAMPLE LOCATION	On site stockpile			
SAMPLE DESCRIPTION	Trench Backfill Type 2.5			
COMPACTIVE EFFORT Standard Compaction Condition Optimum Moisture Content % Maximum Dry Density t/m^3	 AS1289.5.1.1 Soaked 7.5 2.24			
MOULDING CONDITIONS Achieved Dry Density t/m^3 Achieved Moisture Content % Achieved Density Ratio % Achieved Moisture Ratio % Retained 19mm%	 2.24 7.7 100.0 102.5 -			
SOAKED CONDITIONS No. of Days Dry Density t/m^3 Moisture Content % Density Ratio % Swell % Surcharge (kg.) Maximum Penetration (mm)	 4 2.24 7.2 100.0 -0.1 4.5 10.0			
MOIST. CONTENTS AFTER TEST Top 30mm Penetrated %	 8.4			
Duration of Curing (Hours) Plasticity Level determined by visual/tactile assessment	25 Yes			
CBR VALUE % @ Penetration	~~2.5mm~~ 5.0mm **100**			

Accredited for compliance with ISO/IEC 17025 - Testing.

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph. 3285 6536

B49/21

Greg McGrann/ Manager
Approved Signatory
Date: 07/12/2021

NATA
Accreditation No. .2415