



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. 202406

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Ryan Tessmer

RE: AIRE – STAGE 2, Craig Road, Upper Caboolture, QLD 4510
(Bulk Earthworks – Geotechnical Inspection & Testing)

SCOPE

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

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

- (i) check adequacy of pre-fill ground preparation
- (ii) remove unsuitable materials
- (iii) inspect and carry out compaction control testing of placed fill materials
- (iv) provide R.P.E.Q. Certification

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on the 30th of May 2024 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

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.

Thirty-eight (38) field density tests were carried between the 31st of May 2024 and the 27th of February 2025. These tests recorded Dry Density Ratios between 96.5% and 103.0% relative to the standard compaction test and field moisture contents within -1.0% and +2.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 49882, 49890, 49891, 49933, 49934, 49937, 49958, 50775, 50850, 50852 & 50859) provide full test data for the compaction control tests.

The locations of all tests taken are shown on the attached drawing number 102 Revision 0, titled "Aire Stage 2 Bulk Earthworks Test Locations".

No fill was placed on lots 201, 222, 223 & 224 during our Level 1 inspection and testing commission.

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
MANAGING DIRECTOR



SAM JEYAN
BRISBANE SOIL TESTING
RPEQ. No.13339 - Geotechnical

Attachments:

Level 1 Test Locations

Individual Allotment Certificates

Field Density Test Reports



Brisbane Soil Testing

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Kallangur, Q. 4503

2/2

TAIRE STAGE 2 BULK EARTHWORKS TEST LOCATIONS

LEGEND

	PROPOSED AREA OF WORKS
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	PROPOSED EARTHWORKS PAD SETBACK LINE
	PROPOSED CONCRETE SLEEPER RETAINING WALL
	PROPOSED TEXTURED SLEEPER RETAINING WALL
	FUTURE CONCRETE SLEEPER RETAINING WALL
	EXISTING CONCRETE SLEEPER RETAINING WALL
	PROPOSED TEXTURED CONCRETE SLEEPER WALL
	TOPPED WITH ACOUSTIC FENCE, FENCE AS PER LANDSCAPE PLANS
	PROPOSED DRAINAGE SWALE
	PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
	EXISTING SURFACE LEVEL (ESL)
	PROPOSED AREA OF CUT
	PROPOSED AREA OF FILL
	GENERAL AREA FOR TEMPORARY SEDIMENT BASIN
	INDICATIVE DRIVEWAY LOCATIONS
	ZERO LOT BOUNDARY
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING SEWERAGE MAIN
	EXISTING TRUNK SEWER MAIN
	EXISTING WATER MAIN
	EXISTING TRUNK WATER MAIN
	EXISTING WATER CONDUIT
	EXISTING ELECTRICAL CABLE O/H
	EXISTING TELECOMMUNICATION CABLE U/G
	EXISTING GAS MAIN
	EXISTING TREE TO REMAIN - REFER VMP

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS

SEWER MAINS
THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER
FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF
ANY SPECIFIC TREATMENT OR REQUIREMENTS.

PRELIMINARY EARTHWORKS VOLUMES

TOTAL CUT: 3277m³
TOTAL FILL: 5830m³
BALANCE: 2553m³ (IMPORT)
TRENCH SPOIL: 1500m³ (APPROXIMATE)
TOTAL: 1,053m³ (FILL TO IMPORT - FROM STAGE 1 OR AS DIRECTED)

- TYPICAL ROAD BOXING CONSIDERED
- TYPICAL BASIN BIO-FILTER BOXING CONSIDERED
- NO CONSIDERATION FOR TOPSOIL CUT/REPLACE
- SURVEYOR TO CONFIRM ALL EXISTING WATERBODY AREAS
- NO COMPACTION FACTORS CONSIDERED

The diagram illustrates the connection of a proposed temporary sediment pond to Stage 1 Bio Basin. A red dotted line indicates the proposed temporary sediment pond. A blue line with a hatched pattern represents the outlet pipe, which connects to a blue line labeled 'FUTURE STAGE 4'. This blue line then connects to a vertical pipe labeled 'STAGE 1 BIO BASIN'. A callout text states: 'TIE INTO STAGE 1 SWALE RL 17.46', 'FUTURE STAGE 4', 'DIRECT SEDIMENT BASIN OUTFLOWS TO STAGE 1 BIO BASIN AT MINIMUM 0.50% GRADE', and 'FUTURE CONNECTION'. Another callout text states: 'FUTURE CONNECTION', 'BASIN WEIR OUTLET RL 18.90', 'PROPOSED TEMPORARY SEDIMENT POND', and 'EXISTING STAGE 1'. The diagram also shows 'FUTURE STAGE 3' and 'EXISTING STAGE 1' areas.

SECTION

SCALE 1:100 (A1)  102

SCALE 1:200 (A3)

Q100 FLOW
0.723m³/s
MANNINGS 'n': 0.04

3.00m

1 IN 3

MINIMUM
LONGITUDINAL
GRADE 0.50%

1 IN 3

0.50m
MIN

TYPICAL SEDIMENT POND OUTLET SWALE

Received
BMD Urban Pty Ltd
01/03/2024

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
0	02.02.24	KH	DH	ISSUED FOR CONSTRUCTION		DC	ISSUED FOR CONSTRUCTION	1:500 1:1000	10 5 0 10 20	A1 A3	ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD	PROPOSED SUBDIVISION STAGE 2	BULK EARTHWORKS LAYOUT PLAN
						DESIGN	APPROVED TAIT McCARTHY	RPEQ 28026					
						DC	Tait McCarthy						
							FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD						



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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 202

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 202 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 202 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



Brisbane Soil Testing

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 203

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 203 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 203 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 204

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 204 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 204 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 205

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 205 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 205 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 206

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 206 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 206 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 207

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 207 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 207 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 208

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 208 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 208 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 209

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 209 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 209 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 210

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 210 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 210 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 211

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 211 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 211 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 212

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 212 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 212 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 213

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 213 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 213 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 214

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 214 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 214 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 215

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 215 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 215 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 216

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 216 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 216 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur, Q. 4503

Phone: (07) 3285 6536

Email: brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 217

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 217 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 217 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



Brisbane Soil Testing

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ABN 50 065 093 647

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 218

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 218 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 218 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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Connemar Pty. Ltd.
ABN 50 065 093 647

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 219

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 219 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 219 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 220

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 220 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 220 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 221

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 221 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 221 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 225

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 225 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 225 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 226

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 226 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 226 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 227

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 227 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 227 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 228

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 228 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 228 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 229

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 229 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 229 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 230

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 230 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 230 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



Brisbane Soil Testing

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Connemar Pty. Ltd.
ABN 50 065 093 647

7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 231

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 231 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 231 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 232

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 232 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 232 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 233

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 233 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 233 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
BRISBANE SOIL TESTING



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Connemar Pty. Ltd.
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7th of March 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 2

LOT NO. 234

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 “Guidelines on earthworks for commercial and residential developments”. Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7th of March 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 234 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 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 234 (excluding topsoil placed subsequent to completion of controlled filling) can be termed “Controlled Fill” in accordance with AS2870-2011 “Residential Slabs and Footings” (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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	BULK EARTHWORKS	Report No.	49882
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	31/05/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %			
31202	10:20	150	LOT 203 LOC ON ATT PLAN R.L. 22.89	31202	-	26.5	25.0	Adj. 1.5 WET	1.93	Adj. 1.94	99.5			
				Material Description: REDDISH BROWN & GREY CLAY										
31203	11:45	150	LOT 202 LOC ON ATT PLAN R.L. 22.92	31203	-	26.0	24.5	Adj. 1.5 WET	1.96	Adj. 1.96	100.0			
				Material Description: GREY BROWN CLAY										
31204	14:05	150	LOT 203 LOC ON ATT PLAN R.L. 23.44	31204	-	22.5	22.5	Adj. -	1.98	Adj. 2.01	98.5			
				Material Description: GREY BROWN CLAY										
31207	14:30	150	LOT 220 LOC ON ATT PLAN R.L. 22.10	31207	-	25.5	24.5	Adj. 1.0 WET	1.94	Adj. 2.00	97.0			
				Material Description: GREY BROWN 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: 11/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 11/06/2024
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	BULK EARTHWORKS	Report No.	49890
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	05/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
31283	10:30	150	LOT 230 LOC ON ATT PLAN R.L. 23.81	31283	-	27.0	25.0	Adj. 2.0 WET	1.99	Adj. 2.00	99.5
					Material Description: GREY BROWN CLAY						
31284	11:10	150	LOT 228 LOC ON ATT PLAN R.L. 23.70	31284	-	27.0	25.0	Adj. 2.0 WET	2.03	Adj. 1.98	102.5
					Material Description: GREY BROWN CLAY						
31285	13:40	150	LOT 234 LOC ON ATT PLAN R.L. 23.62	31285	-	23.0	21.5	Adj. 1.5 WET	2.02	Adj. 2.05	98.5
					Material Description: REDDISH GREY CLAY						
31286	14:25	150	LOT 233 LOC ON ATT PLAN R.L. 23.76	31286	-	24.5	24.5	Adj. -	2.03	Adj. 2.01	101.0
					Material Description: GREY BROWN 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: 07/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 07/06/2024
Checked By: G MCGRANN		



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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	BULK EARTHWORKS	Report No.	49891
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	06/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %			
31291	9:00	150	LOT 216 LOC ON ATT PLAN R.L. 22.40	31291	-	24.5	23.5	Adj.	2.01	2.03	99.0			
				Material Description: BROWN SOME YELLOW CLAY										
31292	9:40	150	LOT 218 LOC ON ATT PLAN R.L. 22.32	31292	-	26.5	24.5	Adj.	1.98	1.97	100.5			
				Material Description: GREY BROWN CLAY										
31293	11:30	150	LOT 204 LOC ON ATT PLAN R.L. 23.61	31293	-	30.0	27.5	Adj.	1.95	1.93	101.0			
				Material Description: GREY BROWN CLAY										
31294	12:00	150	LOT 217 LOC ON ATT PLAN R.L. 22.36	31294	-	25.5	24.5	Adj.	1.97	2.00	98.5			
				Material Description: GREY BROWN 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: 07/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 07/06/2024
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	BULK EARTHWORKS	Report No.	49933
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	07/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
31313	10:30	150	LOT 211 LOC ON ATT PLAN R.L. 23.80	31313	-	25.0	25.0	Adj. -	2.00	1.98	100.0
					Material Description: BROWN CLAY						
31314	11:05	150	LOT 212 LOC ON ATT PLAN R.L. 22.48	31314	-	27.5	26.0	Adj. 1.5 WET	1.96	1.99	98.5
					Material Description: GREY BROWN CLAY						
31315	13:40	150	LOT 214 LOC ON ATT PLAN R.L. 22.70	31315	-	25.5	24.0	Adj. 1.5 WET	1.97	2.02	97.5
					Material Description: BROWN SOME RED CLAY						
31316	14:50	150	LOT 215 LOC ON ATT PLAN R.L. 22.81	31316	-	26.5	24.5	Adj. 2.0 WET	1.94	2.01	96.5
					Material Description: GREY BROWN 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: 11/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 11/06/2024
Checked By: G MCGRANN		



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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49934
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	10/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %			
31327	8:30	150	LOT 213 LOC ON ATT PLAN R.L. 23.11	31327	-	22.5	23.0	Adj.	1.97	2.02	97.5			
				Material Description: YELLOW BROWN SILTY CLAY										
31328	9:15	150	LOT 219 LOC ON ATT PLAN R.L. 22.45	31328	-	23.5	22.5	Adj.	2.01	2.04	98.5			
				Material Description: LIGHT BROWN SOME GREY SILTY CLAY										
31329	11:40	150	LOT 216 LOC ON ATT PLAN R.L. 22.88	31329	-	22.0	23.0	Adj.	2.02	2.00	101.0			
				Material Description: BROWN SILTY CLAY										
31330	13:15	150	LOT 217 LOC ON ATT PLAN R.L. 22.92	31330	-	24.5	24.5	Adj.	1.95	1.98	98.5			
				Material Description: GREY BROWN CLAY										
31331	13:45	150	LOT 218 LOC ON ATT PLAN R.L. 23.01	31331	-	24.0	22.5	Adj.	1.96	2.03	96.5			
				Material Description: YELLOW BROWN SILTY 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: 11/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 11/06/2024
Checked By: G MCGRANN		



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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49937
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	12/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
31369	7:40	150	LOT 219 LOC ON ATT PLAN R.L. 22.83	31369	-	23.5	23.5	Adj. -	1.96	2.00	98.0
Material Description: BROWN SILTY CLAY											
31370	10:00	150	LOT 212 LOC ON ATT PLAN R.L. 23.35	31370	-	25.0	23.5	Adj. 1.5 WET	1.95	2.02	96.5
Material Description: BROWN SILTY CLAY											
31371	11:30	150	LOT 229 LOC ON ATT PLAN R.L. 23.74	31371	-	27.0	25.0	Adj. 2.0 WET	1.99	1.98	100.5
Material Description: GREY BROWN CLAY											
31372	12:15	150	LOT 231 LOC ON ATT PLAN R.L. 23.80	31372	-	26.0	24.5	Adj. 1.5 WET	2.02	1.96	103.0
Material Description: GREY BROWN 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: 13/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 13/06/2024
Checked By: G MCGRANN		



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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49958
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	20/06/2024	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
31427	8:40	150	LOT 227 LOC ON ATT PLAN R.L. 22.74	31427	-	26.0	25.5	Adj. 0.5 WET	1.96	1.97	99.5
Material Description: GREY BROWN CLAY											
31428	9:35	150	LOT 226 LOC ON ATT PLAN R.L. 22.68	31428	-	22.5	22.5	Adj. -	2.01	2.06	97.5
Material Description: GREY BROWN & RED SILTY CLAY											
31429	11:15	150	LOT 225 LOC ON ATT PLAN R.L. 22.60	31429	-	26.5	24.5	Adj. 2.0 WET	1.90	1.96	97.0
Material Description: GREY BROWN CLAY											
31430	12:55	150	LOT 228 LOC ON ATT PLAN R.L. 24.120	31430	-	25.0	24.0	Adj. 1.0 WET	2.00	2.02	99.0
Material Description: GREY BROWN 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: 27/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 27/06/2024
Checked By: G MCGRANN	Accreditation No.2415	



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50775
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	31/01/2025	Tested by	JM

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
33710	10:50	150	LOT 221 LOC ON ATT PLAN R.L. 23.24	33710	-	25.5	25.0	0.5 WET	2.00	1.97	101.5
Material Description: GREY BROWN SILTY CLAY											
33711	11:25	150	LOT 232 LOC ON ATT PLAN R.L. 23.71	33711	-	24.5	23.5	1.0 WET	1.97	1.99	99.0
Material Description: GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	

Remarks:

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: 05/02/2025	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 05/02/2025
Checked By: G MCGRANN		



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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50850
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	17/02/2025	Tested by	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
33893	11:20	150	LOT 207 LOC ON ATT PLAN R.L. 23.87	33893	-	21.0	20.0	1.0 WET	2.05	2.08	98.5
Material Description: REDDISH BROWN & GREY SILTY CLAY											
33894	13:35	150	LOT 210 LOC ON ATT PLAN R.L. 24.16	33894	-	20.5	21.5	1.0 DRY	2.08	2.07	100.5
Material Description: BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1	Determined on material finer than 19mm	
Prepared By: G MCGRANN Date: 20/02/2025	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 20/02/2025
Checked By: G MCGRANN	Accreditation No.2415	



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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50852
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	18/02/2025	Tested by	GMG

Field Test N° Sample N°	Time of Test	Depth of Test mm	Test Location	Lab Compaction N°	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m³	Peak Converted Wet Density t/m³	Hilf Density Ratio %
33911	10:10	150	LOT 208 LOC ON ATT PLAN R.L. 24.10	33911	-	15.5	16.0	0.5 DRY	2.16	2.11	102.5
Material Description: BROWN SOME ORANGE SILTY SANDY CLAY											
33912	15:20	150	LOT 209 LOC ON ATT PLAN R.L. 24.07	33912	-	16.5	17.5	1.0 DRY	2.04	2.06	99.0
Material Description: REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	

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: 20/02/2025	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 20/02/2025
Checked By: G MCGRANN		



FIELD DENSITY CERTIFICATE

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50859
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 2	Date Tested	27/02/2025	Tested by	JM

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: 03/03/2025	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested.	Greg McGrann/Manager Approved Signatory Date: 03/03/2025
Checked By: G MCGRANN		